MARSHALL TUFFLEX CABLE MANAGEMENT CATALOGUE







PVC-U perimeter trunking systems

Multi-compartment dado and skirting trunking.

Range includes: Odyssey; Mono; Compact; Sterling Profile; Sterling Curve; XL Trunking; Twin165 trunking; Twin Plus; Series R; MT32 modular wiring for trunking.

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Technical information Product technical information, dimensions, capacities and installation information.



Product index and general information

Index by product name, Index by size, Index by part number Health and safety at work; Low voltage directive; Product colour; Unexposed parts; Conditions of sale.

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4 | New product developments and innovation

Delivering innovation

The Marshall-Tufflex brand is synonymous with providing quality, and innovative engineered solutions. We have the most comprehensive range of trunking solutions to suit all types of cable management applications and we are committed to pioneering new and effective solutions that look good and aid speed and simplicity of installation. Importantly, we also ensure our products comply to current legislation and regulations.

Within this catalogue you will find some new products and changes to existing ranges that have been made in response to feedback from our customers.

NEW

New ideas and product innovation

Do you have a product idea that could be developed into a useful or time saving solution to benefit electrical contractors, designers and specifiers? If so, we'd love to hear from you.

Contact our Innovation and New Product Development department at innovation@marshall-tufflex.com

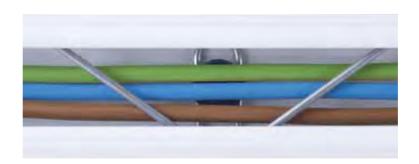
Sterling Curve

Sterling Curve is a sleek new three compartment trunking featuring one or two curved data compartments to stop clutter, avoid dust traps and to make cleaning easy. Suitable for dado and skirting application the range includes single piece moulded fittings and flat tees/angles with integral bend radius control.





Firefly fire clips



To meet the requirements of BS 7671:2015 Wiring Regulations, Marshall-Tufflex now supply a range of Firefly fire clips to secure cables within or outside of mini trunking, maxi trunking or conduit. The clips are designed to prevent cables from falling in the event of a fire, helping to keep escape routes free and accessible.





Wire Basket

Two steps and four seconds are all it takes to connect Marshall-Tufflex's Fast-Coupling Wire Basket system. Suitable for industrial, commercial, and other installations, Fast-Coupling Wire Basket is quick and easy to assemble, with no tools required thanks to an integral push-fit coupler which connects the basket lengths together and gives the system excellent strength and rigidity.



Scan here to see just how quick the Fast-Coupling system is to install





Desk Modules

Designed to meet the needs of the modern workplace, this new range of pre-wired and pre-tested power and data modules is ideal for under desk mounting and has been developed with flexibility and speed of installation in mind. The desk modules can be used individually or can be linked to serve multiple workstations using the latest Wieland GST18/3 connectors.

With additional circuit protection via a selection of RCBO modules there is the ability to connect direct from powertrack up to single or multiple configurations of under desk modules. The range also now includes the latest 5A USB modules for faster charging times.



Data mounting frame for Odyssey



In response to a customer request we now offer a new range of data mounting frames for our Odyssey range that provides easy access for Cat 6 and Cat 7 cables to the socket outlet point. These are available in a standard finish or with BIO antimicrobial properties to prevent 99.9% of harmful bacteria.





6 | New product developments and innovation

Bend radius control for Sterling Profile 1 and Sterling Curve

To control cables for optimum performance Marshall-Tufflex has developed moulded fittings with built-in bend radius control guides providing full radius control around bends for Cat 6 and above data cabling. Flat angles and tees for both Sterling Profile 1 and Sterling Curve now feature the integrated bend radius guides.







Moulded single piece fittings for Sterling Profile 2



Following the success of single piece fittings for Profile 1 we have now developed single piece moulded couplers, end caps and internal/external bends for Profile 2 that are easier to install and give a neater finish.



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3D printer technology



We use the latest 3D printing technology to develop innovative product ideas, by taking product from design to market as quickly and cost-effectively as possible. 3D printing enables us to continually improve our service levels, whether that be responding to customer feedback or developing new product ideas. It has proven revolutionary and is now an integral part of our product development. We can take a product idea, design it in-house with our CAD engineers and produce a 3D prototype, enabling us to quickly evaluate the design and ensuring we invest in the very best cable management concepts and solutions.

New product developments and innovation | 7

New product developments from 2015

Following the introduction of several new products into our previous catalogue, we are pleased to report that these products are now in full use within the electrical industry.

Sterling Profile upgrade

The Sterling Profile trunking range was updated to offer up to 15% more cable capacity, easier fitting and quicker, more secure installations.

New single-piece moulded fittings for Profile 1 (coupler, end cap, internal and external bends) were also developed and have now become the fitting of choice for electrical contractors installing Sterling products.



Elegance 170 Aluminium



Elegance 170 aluminium is a sleek and rounded 170mm rectangular dado trunking system with a single cover, ideal for use in office or educational environments where extra mechanical strength and a higher cable capacity is required. Since it's launch in 2015 Elegance 170 has been specified into several schools in Ireland including the Bunscoil Bheann Mhadagain School in Belfast. See page 18 to read the case study in full.

Cable Guard

Cable protection guard is the perfect solution to protect cables from impact and damage on telegraph poles and exposed brickwork. Highly shock-resistant but light in weight, it is easy to transport and install thanks to pre-drilled screw holes.



New ideas and product innovation

Do you have a product idea that could be developed into a useful or time saving solution to benefit electrical contractors, designers and specifiers? If so, we'd love to hear from you. Contact our Innovation and New Product Development department at innovation@marshall-tufflex.com

Cable management specialists



Marshall-Tufflex is the UK's leading manufacturer and supplier of cable management solutions for commercial, industrial, healthcare, education and domestic markets.

Based in Hastings, East Sussex the company was established in 1942 and is recognised throughout the industry for quality, consistency, reliability, value for money and innovation.

When you buy a Marshall-Tufflex product there are high expectations and we don't take this lightly. We work hard to ensure our products meet the highest standards and we are totally committed to customer satisfaction.

Award winning customer service

Our area Sales Engineers, Project Managers and Technical specialists work closely with Electrical Consultants, Contractors and clients in order to provide the best possible technical and sales support.

Our Customer Service Team are on hand to advise on stock availability, lead times and delivery schedules.

In 2016 Marshall-Tufflex were proud to be shortlisted in the Best Customer Service and Best Overall Supplier categories at the prestigious Electrical Wholesaler Awards.



Technical support



Our Technical Team consists of qualified Electricians, Electrical and Mechanical Engineers with many years experience of cable management installations including an understanding of the regulations and compliancy to standards in both domestic and commercial sectors. The team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Parts L and M compliancy.

The team are heavily involved with the design and manufacture of the Marshall-Tufflex product ranges which enables us to deliver high quality innovative products to the market.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs. Our Technical Team are able to help and support the design and manufacture of these custom products where possible.

The team's expertise enables them to provide quotations from as little as a floor plan drawing to create a detailed quotation of our specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.

Our Technical Team can be contacted on +44 (0)1424 856688.

Specialised solutions

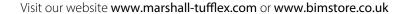
With cable management installations becoming increasingly wide ranging, our specialised solutions service helps to find the perfect answer to a specific problem that a client is facing.

Our In-house Design Team continually push the boundaries of product design and work with architects, designers and contractors to create pre-fabricated solutions for their projects, designed to save time on site.

BIM (Building Information Modelling)

BIM (Building Information Modelling) brings together all of the digital information for every component of a building in one place allowing anyone to access that data. BIM data can be used and shared to illustrate the entire building life-cycle, from feasibility, design, during construction and throughout its working life.

3D Autodesk Revit models are now available to download for Marshall-Tufflex products, with the necessary technical product data for them to be easily specified and integrated into a construction project.





Where to buy Marshall-Tufflex products

Marshall-Tufflex products are available throughout the UK via a large network of national and independent electrical wholesalers.

Marshall-Tufflex products are available internationally across 45 different countries via our 85 international distributors, who also maintain a range of products for their customers locally.

Please contact our Customer Service Team on +44 (0)1424 856600 to find out your local stockist.

Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing them to collect from our dedicated collection points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester

Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG

London

101c Blackhorse Lane, London E17 6DJ



- Orders can be collected two hours after order placement from Manchester and London.
- Orders placed by 3.30pm will be available for collection until 5.30pm.
- Orders received by 5pm will be ready for collection from 7am the following day.

Hastings

55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

Orders placed by 12.30pm can be collected next day from our Hastings depot.

^{*} Subject to stock availability

10 | Corporate Social Responsibility

Charitable donations

Marshall-Tufflex is an established supporter of charity, donating almost half a million pounds over the last five years alone.

Our philanthropic spirit is part of our heritage and ingrained into the culture and we are very proud to support local and national charities through regular staff fundraising efforts and company donations.

In 1962 our Company founder Harold Cirket, established a charitable Trust, the Charlotte Marshall Charitable Trust, which the company stills supports today through a mix of dividend payments and donations.



Marshall-Tufflex and the community



Marshall-Tufflex is committed to community engagement; we believe that it is our corporate responsibility to be socially aware and to give back to the local area.

MT in the Community is a programme to drive and encourage engagement across a range of community activities. As part of the programme we encourage our staff to volunteer and engage with activities that aid local development and growth within our community and the wider environment we all inhabit.

We are continually building relationships with local educational establishments, from schools to universities. Marshall-Tufflex also supports an active Apprenticeship Programme, allowing people to grow and develop with the business and deliver the skills needed for tomorrow.

Sustainability and Standards

Environmental

Marshall-Tufflex actively pursues a comprehensive programme to develop formulations based on environmentally acceptable materials, whilst still maintaining and, where possible, improving on long-term performance properties.

Recycling

Marshall-Tufflex source and include high quality recycled PVC-U within a number of its product ranges. We are active in and financially support various industry bodies in driving the industry in the use and control of PVC-U based materials, with the aim of increasing awareness and use of recycled material. We also recycle paper, cardboard, polythene, wood, metal, print cartridges and aluminium cans.

Vinyl Plus

The company is dedicated and actively contributing to meeting the requirements of Vinyl Plus and its ongoing programme of Voluntary Commitment to the European Commission.





BSI Standards

Marshall-Tufflex is committed to excellence and is recognised by the BSI as a firm of Assessed Capability for Quality Management Systems to BS EN ISO 9001:2008, Environmental Management Systems to BS EN ISO 14001:2004, Occupational Health and Safety Systems to BS OHSAS 18001:2007 and Energy Management Systems to BS EN ISO 50001:2011.

BEAMA

BEAMA is the independent expert knowledge base and forum for the electrotechnical industry for the UK and across Europe. Representing over 300 manufacturing companies in the electrotechnical sector, the organisation has significant influence over UK and international political, standardisation and commercial policy. We are very proud to be an active member of BEAMA and work closely with them.

RoHS, REACH and WEEE

Marshall-Tufflex is committed to compliance with the RoHS, REACH and WEEE European Union Directives. For further details, please visit www.marshall-tufflex.com

12 | Colours and finishes

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although solid white RAL 9003 is our most popular colour option.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special colours and finishes section on page 13.

Standard Colours								
WH BK								
WH: White BK: Black								

Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White	WH	9003
	Black	BK	9005
	Charcoal	CH	7021
	Red	RD	3020
	Brown	BN	8017
Aluminium	Silver Grey	SG	9006
	White	WH	9016
Steel	White	WH	9010



Please note: it is dependent on the product range as to which colour is available as standard.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.



Special colours and finishes



To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Woodgrain finishes

For a truly authentic look, we offer a range of woodgrain finishes for trunking and fittings in Light Oak, Mahogany and Ebony that provide interior designers with the scope to offer a more traditional feel. Colours can be indicated by replacing the WH colour code with the specific woodgrain code required.





Please note: these colours and finishes are made to order and therefore are subject to set up charges, minimum order quantities and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Copper screening

A special conductive spray coating is applied to the relevant section of the trunking or fittings to screen data cables against EMI interference with no reduction in cable capacity.

Marshall-Tufflex offers a standard range of copper screened products within selected PVC-U perimeter trunking systems which are shown within this catalogue and are held in stock.

If you have a requirement for products to be copper screened that are not part of our standard range, please contact our Technical Team on +44 (0)1424 856688. Please note that non standard products are made to order and therefore are subject to set up charges and a longer lead time.



Bio antimicrobial trunking



Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

We hold stock of key Odyssey and Sterling Curve Profile 1 trunking components with Bio antimicrobial protection due to its popularity. The following trunking systems:

- Bench trunking
- Compact trunking
- Mono Plus 20 trunking
- · Sterling Profile
- · Twin Plus trunking
- XL trunking

are also available in Bio but not available as standard.

Please note: non standard products are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Look for these quick reference symbols within the catalogue



Indicates that a product can be used in conjunction with MT32 Prefabricated Wiring.



Indicates that a product is compliant with Cat 6 cabling or above.



Indicates that a system can be manufactured with antimicrobial properties.



Indicates that a system can have a conductive spray coating to protect against EMI interference.

PRODUCTS BY APPLICATION

Marshall-Tufflex cable management solutions are suitable for many different environments including: educational, office, transport and industry, data and IT and laboratory and healthcare.



Cable management for educational environments

Marshall-Tufflex has been supplying trunking systems to the UK's educational facilities for over thirty years. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the education sector.

We understand that there is increasing demand for cable management products that enable the distribution of power and high speed data services. As the largest UK manufacturer of cable management products, we apply our vast experience and technical knowledge to not only meet these requirements but to provide future proof cable management solutions.



What we offer

- Cable management products that are already proven and have been selected for use in the classrooms, workshops and offices in the education sector.
- A comprehensive range of trunking systems available in PVC-U and aluminium, combining the latest technology in plug & play power connection to reduce installation time on site.
- Designs, dimensions and cable capacities to meet the latest cabling standards and to accommodate building designs and construction parameters.
- Products to comply with Part M of the UK Building Regulations (Disability Discrimination Act for Visual Impairment).
- Antimicrobial trunking systems with an integral formulation preventing 99.9% of harmful bacterial growth.
- Stylish and practical trunking systems that complement modern classroom environments.

PVC-U trunking

Compact 2

130 x 50mm

A compact two compartment dado and skirting systems suited to fit within areas that have trunking height restrictions for example to negotiate radiators or window sills.



Mono Plus 20

140 x 50mm

An economical and stylish three compartment dado trunking for use where space is limited. Mono Plus has one piece fittings with a single lid for improved security.



Sterling Profile '

167 x 50mm

A popular stylish medium sized trunking system for dado and skirting application with three segregated compartments.
Sterling Profile 1 has been tried and tested within the educational environment over many years.



Sterling Curve

167 x 50mm

A new addition to the popular Sterling trunking system. Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments.



Sterling Profile 1 has curved data compartments designed to stop clutter, avoid dust traps and make cleaning easy.

Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas such as classrooms. Odyssey's curved profile is designed to



prohibit clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided and screened if required.

I win Plus

210 x 57mm

An attractive high capacity segregated two compartment containment system which is ideal for schools colleges and universities requiring large quantities of Cat 6 data cabling throughout classrooms and course.



throughout classrooms and computer suites.

Twin165

160 x 65mm

A mid-size, two-compartment system, Twin165 offers high capacity for Cat 6, Cat 6a and Cat 7 data cabling for specification in educational environments.



Bench trunking

105 x 105mm

An easy to install robust, angled trunking that can be mounted directly on workbenches or angled under shelving. Compartment can be subdivided and screened if required.



Aluminium trunking systems

Flegance 110

110 x 55mm

An impact resistant compact rectangular dado trunking system with a single lid cover. Elegance 110 is an excellent choice for educational areas requiring a stylish yet robust trunking



system, particularly effective where a high quality of screening performance and security is required.

Twin Plus

210 x 57mm

A strong and attractive high capacity segregated two compartment containment system which is ideal for schools, colleges and universities requiring large quantities of Cat 6 data cabling



throughout classrooms and computer suites.

Elegance 170

170 x 55mm

An attractive, light to handle, rectangular dado trunking system with a single cover lid. Elegance 170 has mechanical strength and impact-resistance that is superior to steel particularly useful for



workshop or laboratory supply where extra mechanical strength is necessary. Can be single, twin or three compartment with easy to fit dividing fillets with pre-punched knockouts.

Bench trunking

105 x 105mm

An easy to install, robust, angled trunking that can be mounted directly on laboratory and medical workbenches or angled under shelving. Compartment can be subdivided and screened if required.



Case Study 1

Elegance 170 goes to the top of the class



Elegance 170 aluminium profile has scored top marks after proving perfect for a brand new school in Belfast.

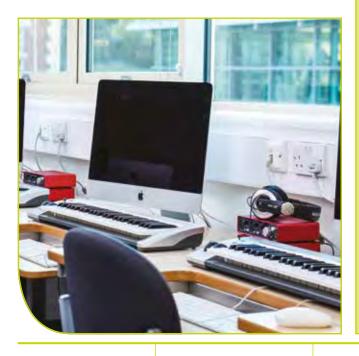
Elegance 170 Aluminium (170x55mm) is hard-wearing, good-looking and lightweight, making it perfect for educational and office projects where a robust yet stylish cable management solution with extra mechanical strength and a higher cable capacity is required.

The profile ticked all the boxes for the new Bunscoil Bheann Mhadagain School in Belfast. Supplied by Core Electrical (NI), working with consultants JCP Consulting and electrical contractors Norlect Engineering, the Elegance 170 system was also praised for being Cat 7 and Part M compliant.

"The contractor and consultant needed a system that could be installed quickly while still delivering the highest standards of quality. The Elegance 170 range was perfect," said Gerry McKeith, Core Electrical (NI). "We believe this is the first school project in Northern Ireland to use Elegance 170 but it certainly won't be the last. Since supplying Marshall-Tufflex for Bunscoil Bheann Mhadagain we have been successful in obtaining orders and supplying Elegance 110 and 170 to a number of schools and we're quoting for more schools and commercial projects."

Case Study 2

'Twin' trunking duo resolves size issue at Sunderland College



Twin 165 trunking has come up trumps for yet another major educational new-build project, offering generous compartment sizes in a trunking profile able to accommodate height restrictions around window sills.

Specifiers working on the new £22 million Arts and Sports Academies at Sunderland College's Bede Campus required an integrated cable management solution for both buildings.

The college had previously used Twin Plus trunking and was happy with its performance and generous, two full-sized compartment, cabling capacity. But when specifying trunking to carry power and data supplies throughout the new buildings, mechanical and electrical services consultant Desco was limited by height restrictions around window sills. Twin165 solved the dilemma, offering an alternative solution for these tricky areas with a flexible, medium-sized, cable containment solution that met the specification and required cable capacity perfectly.

Both Twin Plus and Twin165 were specified for the new buildings. Karen Wade, director of facilities at Sunderland College, said: "We have used Marshall-Tufflex trunking not only in the new Sports and Arts Academies' projects, but also in other smaller refurbishment projects across the estate. We find Marshall-Tufflex trunking both flexible and durable which makes it suitable for use in a busy college environment."

The products were installed by Castle Building Services, which carried out the mechanical and electrical engineering services. Although familiar with installing Marshall-Tufflex products, Castle Building Services had not worked with Twin165 before but reported that it had been very straightforward to install.

Cable management for office environments

Marshall-Tufflex has a wide range of cable management products in a variety of materials which are designed to transport power and data throughout office environments. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the commercial sector.



What we offer

- A comprehensive range of underfloor to desk cable management and prefabricated wiring systems developed for fast, easy and adaptable installation.
- MT32 prefabricated technology that provides seamless connection all the way from the incoming feed to the desktop.
- PowerPoles and PowerPosts are a practical, elegant and efficient solution for the management of power, data and communication services to island work stations.
- Practical trunking solutions in PVC-U, steel and aluminium including features such as Part M compliance, copper screening and data control bends.

Underfloor to desk solutions

Powertrack is a comprehensive range of underfloor 63Amp powertrack that comes complete with pre-assembled coupler, end cap and floor mounting brackets.



A range of floor outlet boxes, and plates in galvanised with choice of PVC-U or steel ducting.



A range of surface mounted power and data modules for use with office furniture.

See page 80 for a typical office installation using our underfloor to desk solutions.

A high quality range of raised floor boxes to provide power and data to desks within the modern office environment. Available as standard or heavy duty versions, boxes are supplied with dividers for quick and easy configuration as either a three or four compartment box.

A prefabricated wiring system that incorporates 32Amp plug and play connector technology. The system provides a range of pre-wired, pre-tested products which can be used alone or in conjunction with powertrack, desk modules and other pre-wired systems to accommodate various underfloor layout options.

PowerPoles are a practical and elegant solution for the management of power, data and communication services to island work stations. PowerPoles are suitable for suspended and solid ceiling applications whilst PowerPosts are suitable for all floor applications. Single and double sided options are available.



PVC-U trunking

167 x 50mm

A popular stylish medium sized trunking system for dado and skirting application with three segregated compartments. Sterling Profile 1 has been tried and tested within the office



environment over many years. Compartments can be subdivided and screened if required.

210 x 57mm

An attractive high capacity segregated two compartment containment system which is ideal for carrying power and data services. Compartments can be subdivided and screened if required.



167 x 50mm

Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments.



Sterling Profile 1 has curved data compartments designed to stop

clutter, avoid dust traps and make cleaning easy. Compartments can be subdivided and screened if required.

160 x 65mm

A mid-size, two-compartment system, Twin165 offers high capacity for Cat 6, Cat 6a and Cat 7 data cabling for specification in office environments.



180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas. Odyssey's completely curved profile is designed to prohibit



clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided and screened if required.

Aluminium trunking systems

Sterling Profile 3001 - 3003

167 x 50mm

A popular and stylish trunking system that offers a variety of trunking profiles with three separate compartments and individual covers for each compartment for ease of access.



Twin Plus

210 x 57mm

A strong and attractive high capacity segregated two compartment containment system which is ideal for offices requiring large quantities of Cat 6 data cabling.



Elegance 170

170 x 55mm

An attractive, light to handle, rectangular dado trunking system with a single cover lid. Elegance 170 has mechanical strength and impact-resistance that is superior to steel. Can be single, twin or three compartment with easy to fit divid



three compartment with easy to fit dividing fillets with pre-punched knockouts.

Steel trunking systems

System 130

130 x 63mm

Steel System 130 is stylish compact pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.



System 170

170 x 63mm

Steel System 170 is a mid-sized pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.



Case Study 1

Nice and easy with Twin165 Trunking



Twin165 data compliant trunking system had no trouble impressing both Ormiston Victory Academy and the Dodd Group's project team of its specification merits for the academy's purpose-built building in Norwich.

"It ticked all the boxes and that of our client," said Alan Hensby of Dodd Group Eastern, electrical and mechanical contractor for the project. "As a trust, Ormiston Victory Academy took an active role in selecting products for the new school building, which included looking at samples."

"Marshall-Tufflex came out best when we looked at different cable management options & it provided value for money compared with the competition," added Mr Hensby. "We particularly liked the simplicity of its design and ease of installation when up against time. Some systems we considered were fragmented and not tamperproof. Being a tamper-proof, all-in-one unit with double compartments, Twin165 gave us the depth of capacity we required without being over-bearing in width, easily fitting spaces around windows & radiators. It also gave us flexibility for future-proofing without disturbing the fabric of the building. We like nice & easy trunking!"

Some 284 lengths of Twin165 in white with grey lids to meet DDA requirements were installed within the new academy building by Electrical Engineering Services, King's Lynn.

Case Study 2

Marshall-Tufflex trunking keeps Pace with prestigious project



The impressive refurbishment of the Pace Building within Durham University's Palace Green Library demonstrates how well-specified cable management can enhance the final look of a project. The 1960s part-listed Pace Building unites wood, exposed steelwork, concrete and glass to provide users with a beautifully executed modern, hi-tech environment in which to do research and to study.

Each of the many desks within the library have power delivered by Marshall-Tufflex's charcoal-coloured Sterling Profile 1 dado trunking where a perimeter cable management solution was required.

Project mechanical and electrical building design consultant Desco, turned to Marshall-Tufflex to provide cable containment that combined looks and performance and was in-line with the architectural aesthetic of the building. Sterling Profile delivered the required style, colour and finish for the project together with functionality: as well as looking good the 167x50mm trunking has three segregated compartments that can be further subdivided as required, making it an attractive and flexible solution.

The second key requirement of the project was an underfloor power delivery solution suited to the open plan environment of the building. For this Marshall-Tufflex's in-screed floor distribution system was specified.

Cable management for transport and industrial environments

Marshall-Tufflex has a wide range of cable management products in a variety of materials which are designed to suit specific on site or installation needs, where particular hazards or harsh environments require a specialised solution. We are dedicated to ensuring that our comprehensive range of products meets the needs of clients, designers and contractors working in the transport and industrial sector.





Marshall-Tufflex is registered with the RISQS Railway Industry Supplier Oualification scheme.

What is RISQS?

RISQS, formerly known as Achilles Link-up, has been developed to provide a service for the qualification of suppliers for all products and services that are procured by the industry. RISQS supports Network Rail, LUL/Transport for London, train operators and other rail products and services providers in the management of supply chain risk. RISQS is an independent, third party qualification assessment of a supplier's capability to supply products and services.

GRP cable management systems

Glass Reinforced Polyester (GRP) cable management systems are well suited to aggressive environments, such as extreme weather or high temperatures.

The systems are extremely robust, considerably lighter than traditional metal systems, and have excellent resistance against fire and corrosion resulting in a very long life span. GRP systems have a large cable capacity, and offer fast and flexible installation solutions, with the ability of on-site assembly and configuration. Marshall-Tufflex can offer a wide range of GRP systems including trays, ladders, ground ducts, troughing, accessories and fittings, fixings and supports.

- Large cable capacity
- · No need for painting means low maintenance costs
- · Self extinguishing, without toxic fumes
- · Zero Halogen
- Resistant to temperatures from -80° to +130°
- Excellent cable protection





GRP vs. Stee

GRP is 40% lighter

Completely corrosion resistant. No rusting even when in contact with salt spray, H25, acid built up from exhaust gases, or brake dust along roads and railways

Fast installation with fewer fasteners

Easy to cut and drill

Slow rate of heat transfer

Earthing not required

Antimagnetic and therefore resistant to electromagnetic pulses

Lower life cycle cost

MT Supertube LSOH Conduit: A time saving alternative to steel conduit

MT Supertube is a three-layer, heavy gauge, impact-resistant conduit giving excellent EMI capabilities. Available with steel or polycarbonate fittings, MT Supertube is manufactured to comply with BS EN 50086.



- · LSOH Polyethylene-coated aluminium
- · Can be formed by hand and no bending spring is required
- No special tools necessary
- MT Supertube FR Plus version is fire tested in accordance with, and meets criteria for, Category '-EQ/l' of the London Underground Limited Engineering Standard 2-01001-002:Issue A1:December 2003

Contractor cost and labour saving example (based on contractor purchase price)

Costs calculated on using 100m of 20mm conduit with 8 off 90° bends and estimated manpower costs of £30 per hour.

Galvanised s	teel conduit	MT Supertube coiled conduit					
Material Cost	£2.04 per metre + fittings = £224	Material Cost	£2.62 per metre + fittings = £274.95				
Labour @ 30 mins / metre	2 metres / hour	Labour @ 10 mins / metre	6 metres / hour				
50 hours @ £30	£1,500	16.67 hours @ £30	£500				
Galvanised steel overall costs	£1,724	MT Supertube overall costs	£774.95				

The savings on this job amounts to £949.05 - 55% cheaper than galvanised steel.

These figures are based on Marshall-Tufflex trade list price (for MT Supertube) and quoted wholesaler prices (for galvanised steel conduit) as at 22nd April 2016.

Steel trunking systems

Steel has a mechanical strength that makes it a robust and durable option for public areas where there is a high footfall. Our steel trunking provides Specifiers, Contractors and end-users with reliable, practical systems with hard-wearing, clean lines and all the advantages of inherent LSOH and screening properties.

The extra depth provided by Marshall-Tufflex steel perimeter trunking systems offer increased capacity for power and data services. All earth bondings are 'friction fit' to eliminate the need for unsightly screw fixings.

- Easy to install steel trunking system
- · Well known, proven and stylish design
- · Increased space internally
- · Lighter weight to make installation easier
- · Simpler to cut



Aluminium perimeter trunking systems provide the Specifier, Contractor and end-user with elegant, stream-lined containment that offers the practical advantages of inherent LSOH and screening properties making it ideal for industrial environments.

Aluminium is light to handle with a mechanical strength and impactresistance that is superior to steel. Extruded sections provide attractive profiles and products are finished with a high quality, powder-coat that provides a blemish-resistant surface.





Case Study 1

Marshall-Tufflex keeps London Underground in the picture



Marshall-Tufflex's MT Supertube FR, formulated for applications where fire safety regulations are at their most stringent, was a key component in the upgrade of London Underground's Victoria Line OPO CCTV camera system, with more than five miles (8,100m) of the high-performance conduit installed.

Manufactured from a special three-layer LSOH conduit, MT Supertube FR delivered a superior design solution to protect cables that transmit images of the platforms to the train driver. MT Supertube FR is an alternative to steel trunking, offering much faster fit times. It is supplied in coils of up to 100m and therefore produces little wastage from cut lengths.

For the London Underground project MT Supertube FR's EMC shielding capabilities were of paramount importance, as the specifying contractor explained: "We chose MT Supertube for its ability to provide EMC shielding. It has proved a better way to segregate cables, which is greatly beneficial in London Underground applications where there are a lot of unknown cables to contend with."

MT Supertube FR meets London Underground's fire and materials specification, having undergone a series of tests conducted against the rigorous requirements set out by London Underground Ltd.

A Marshall-Tufflex spokesman said: "Having product specified for use in the London Underground system is of immense importance to us and a big rubber stamp for MT Supertube FR. The Underground is a demanding environment that calls for products of the highest calibre and performance."

Case Study 2

Marshall-Tufflex GRP system for Shoreham Harbour gantries



Marshall-Tufflex's corrosion resistant Glass Reinforced Polyester (GRP) cable management trays, which are designed to withstand extreme weather conditions, have been used to carry all power and lighting services to an unloading station at Shoreham Harbour in West Sussex.

Built on the wharf, the station provides harbour side docking and storage facilities for large quantities of steel as it arrives aboard incoming ships.

With four 9m high x 120m long gantries plus cranes to power and suspended gantries to light, the mechanical and electrical services contractor needed cable trays for the entire length of the gantries that would not corrode in the harsh coastal location.

Approximately 500 linear metres of Marshall-Tufflex's GRP cable management trays, which are corrosion resistant and equal in strength but up to 40% lighter than steel, were specified. They are easier to handle than steel and can help to reduce the overall weight of heavy structures.

To simplify installation, Marshall-Tufflex GRP products require fewer fasteners and benefit from interlocking and self-adjusting couplings for fast, on-site assembly without modification, earth bonding or de-burring.

Marshall-Tufflex GRP systems are developed for challenging environments such as rail, road and sea installations, petrochemical and processing plants, where extremes of weather and temperatures are commonplace. They are manufactured from long lasting, low smoke classified, zero halogen, glass reinforced polyester resin, which remains effective in temperatures ranging from – 80°C to + 130°C. They also have a slow rate of heat transfer with low conductivity and self-extinguishing properties and are resistant to electromagnetic pulses.

Case Study 3

Marshall-Tufflex systems ensure no delays at 600million Dublin Airport passenger terminal



Behind the scenes at Terminal 2, the flagship project of the €2 billion redevelopment of Dublin Airport, are thousands of metres of Marshall-Tufflex trunking products, selected for their ease and speed of installation, good looks and short lead times.

Substantial amounts of three-layer LSOH MT Supertube conduit are installed at high level and within ceilings in the main Terminal building, satisfying the project consultant's requirement for mechanical protection/segregation and a good architectural aesthetic.

Client Dublin Airport Authority had originally specified steel conduit but the project's engineering contractor, Mercury Engineering, gained agreement for a specification change to MT Supertube. A spokesman said: "It was a really tight construction programme which I knew would benefit from the time-saving features of certain Marshall-Tufflex products. MT Supertube offered two specific advantages over steel conduit. Not only is it much quicker to install, delivering significant labour saving benefits, it is also much lighter. This meant that when installed at height it was a one man, rather than a two man, lift."

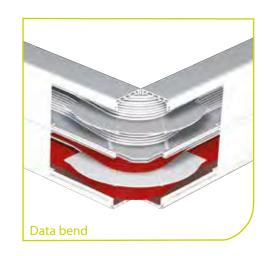
Thousands of metres of Marshall-Tufflex's unique, all-curved profile trunking Odyssey were also installed in some 150 offices within Terminal 2. The good-looking Cat 6 compliant profile was also installed in passenger booking kiosks, immigration booths, car rental offices and other front-of-house desk areas.

All Marshall-Tufflex products were supplied by its sole Irish distributor, Core Electrical Ltd.

Cable management for data capacity

Marshall-Tufflex cable management solutions are designed to accommodate the increasing performance levels of current and future data networks. It is important that cable containment systems measure up to the demand and offer the flexibility for reconfiguration whilst having a large data capacity to allow for future data requirements.

Decisions on the right system for any application are based on many factors. Marshall-Tufflex has a wide selection of data compliant perimeter trunking systems, so whatever your application, we are confident we have a solution for you.





What we offer

- Bend radius controls
- Steel screening divider to BS EN 50174-2: 2009+A2:2014
- 50mm power/data separation to BS EN 50174-2: 2009+A2:2014
- Full compartment copper spray screening (to assist in meeting EMC Directive) with NO reduction of compartment capacity
- Adjustable depth data boxes and frames
- Accessories to accommodate LJ6 (6C) and Euromod data modules
- Trunking systems (Sterling and Sterling XL) that can be extended to accommodate any number of data cables

			D.				Cable Ca	pacity								
	Syste	m	Dimens	sions	base	d on typical value			3.4mm data	cables*						
compartment trunking	MINI		38				Comp 1									
1 compar	PVC-U		1	MMT4: 38 x 25mm	MMT4	Ø6.5mm Ø7.0mm Ø8.4mm	10 8 6									
							Total	V	Vith divid	ders						
			50				(No dividers)	COMP 1	COMP 2	2 COMP 3						
				MTRS50: 50 x 50mm	MTRS50	Ø6.5mm Ø7.0mm Ø8.4mm	28 23 16	13 11 7	13 11 7	- - -						
	MAXI PVC-U		- 2	1			2	<u>+ [₩]</u>	MTRS75: 75 x 75mm	MTRS75	Ø6.5mm Ø7.0mm Ø8.4mm	66 55 38	31 26 18	31 26 18	- - -	
unking			F* T 73	MTRS100: 100 x 100mm	MTRS100	Ø6.5mm Ø7.0mm Ø8.4mm	122 102 71	33 28 19	20 17 12	57 48 33						
2 compartment trunking		50	50				Comp 1		Com							
npar	COMPACT					Ø6.5mm	18		вох 3	WITH BOX						
2 con	COMPACT 1 & 2 PVC-U		0 E 2	Compact 1: 130 x 50mm	Compact 1	Ø7.0mm Ø8.4mm	15 10	4	4	17 12						
			(Compact 1)	Compact 2: 130 x 50mm	Compact 2	Ø6.5mm Ø7.0mm Ø8.4mm	21 18 12		3 4 1	21 17 12						
			16				Com	np 1	С	omp 2						
	COMPACT 3						NO BOX	WITH BOX	NO BOX	WITH BOX						
	PVC-U		2	Compact 3: 181 x 50mm	Compact 3	Ø6.5mm Ø7.0mm Ø8.4mm	53 44 31	21 18 12	52 43 30	20 17 12						
			65				Comp 1		Com	p 2						
	TWIN165		93					NO	вох	WITH BOX						
	PVC-U		2	160x65mm	Twin 165	Ø6.5mm Ø7.0mm Ø8.4mm	46 38 27	6	6 3 4	43 36 25						
		57					Com	np 1	С	omp 2						
	TWIN PLUS						NO BOX	WITH BOX	NO BOX	WITH BOX						
	PVC-U & ALUMINIUM		2 2	210 x 57mm	Twin Plus	Ø6.5mm Ø7.0mm Ø8.4mm	66 56 39	34 28 20	66 56 39	34 28 20						
	*All calculations allow	6 450/	· .													

^{*}All calculations allow for a 45% space factor

Bend radius control	Internal Bend	External Bend	Flat Tee	Flat Angle	Slow Bend	For PVC-U	
See Technical Information page or contact the Technical Team on	bend	Della				Steel insert	Copper spray
+44 (0)1424 856688	Moulded	Moulded	Moulded	Moulded	Special#		
	Moulded	Moulded	Fabricated	Moulded	Special#		
25mm & 50mm	Fabricated	Fabricated	Fabricated	Moulded	Special#	Х	X (Dividing fillet
	Fabricated	Fabricated	Fabricated	Fabricated	Special#		can be copper sprayed)
							Please contact the Technical Team on +44 (0)1424 856688 for options regarding
50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	1	
	Moulded	Moulded	Fabricated	Fabricated	Special#		special screening requirements
50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	1	,
25mm & 50mm						,	,
25/11/11 & 50/11/11	Moulded	Moulded	Fabricated	Fabricated	Special#	✓ 	,
25mm & 50mm	Moulded	Moulded	Fabricated	Moulded	Special#	✓	/

[#] These products are made to special order and may be subject to minimum order quantities and longer lead times.

	Syste	m	Dimens	ions	base	d on typical value	Cable Ca		3.4mm data cab	les*	
runking			50				Comp 1	Cor	np 2	Comp 3	
3+ compartment trunking	STERLING PROFILE		1	407 50	Profile 1	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	54 45 31	19 16 11	18 15 10	
2+ comp	1,2 & 3 PVC-U		3	167 x 50mm	Profile 2	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	54 45 31	19 16 11	22 18 13	
			(Sterling Profile 2)		Profile 3	Ø6.5mm Ø7.0mm Ø8.4mm	22 18 13	54 45 31	19 16 11	22 18 13	
			50				Comp 1	Cor NO BOX	np 2	Comp 3	
	STERLING CURVE PROFILE 1 & 2		15 2	167 x 50mm	Profile 1	Ø6.5mm Ø7.0mm Ø8.4mm	16 14 10	54 45 31	19 16 11	16 14 10	
	1 & 2 PVC-U		(Sterling Curve Profile	1)	Profile 2	Ø6.5mm Ø7.0mm Ø8.4mm	16 14 10	54 45 31	19 16 11	22 18 13	
	STERLING PROFILE		(Sterling Profile 3002)	167 x 50mm			Comp 1	Cor NO BOX	np 2	Comp 3	
					3001	Ø6.5mm Ø7.0mm Ø8.4mm	15 12 9	53 44 31	21 18 12	16 14 9	
	3001, 3002 & 3003 ALUMINIUM				3002	Ø6.5mm Ø7.0mm Ø8.4mm	15 12 9	53 44 31	21 18 12	20 16 11	
					3003	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 11	53 44 31	21 18 12	20 16 11	
	ODVOCEV		57				Comp 1	Cor NO BOX	mp 2	Comp 3	
	ODYSSEY PVC-U		8 2 2 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4	190 x 57mm	Odyssey	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	56 47 33	17 14 10	18 15 10	
			65 - 65 - 1				Comp 1	Cor NO BOX	np 2	Comp 3	
	STERLING XL		30 -		XL201	Ø6.5mm Ø7.0mm Ø8.4mm	39 33 23	67 56 39	35 29 20	39 33 23	
	PVC-U & ALUMINIUM		2 3	220x65mm	XL202	Ø6.5mm Ø7.0mm Ø8.4mm	39 33 23	67 56 39	35 29 20	49 41 29	
			(XL202)		XL203	Ø6.5mm Ø7.0mm Ø8.4mm	49 41 29	67 56 39	35 29 20	49 41 29	

^{*}All calculations allow for a 45% space factor

Bend radius control	Internal Bend	External Bend	Flat Tee	Flat Angle	Slow Bend	For PVC-U r Steel insert	anges only Copper spray
Common	Jena	_ Jena _				Steermsert	eopper spray
	Moulded	Moulded	Moulded	Moulded	Special#		
25mm & 50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	✓ 	√
	Moulded	Moulded	Fabricated	Fabricated	Special#		
25mm & 50mm	Moulded	Moulded	Moulded	Moulded	N/A [†]	J	√
	Moulded	Moulded	Moulded	Moulded	N/A [†]		
							N/A
25mm & 50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	N/A	
2511111 & 50111111	Moulded	Moulded	Fabricated	Fabricated	Special#	IV/A	
	Moulded	Moulded	Fabricated	Fabricated	Special#		
25mm, 50mm & 65mm	Moulded	Moulded	Moulded	Moulded	N/A [†]	✓	✓
							Please contact the Technical
25mm & 50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	1	Team on +44 (0)1424 856688 for options
	Moulded	Moulded	Fabricated	Fabricated	Special#		regarding special screening
	Moulded	Moulded	Fabricated	Fabricated	Special#		requirements

#These products are made to special order and may be subject to minimum order quantities and longer lead times.

† Slow bends are not required as built-in cable guides within fittings are standard.

	Syste	em	Dimen	Dimensions		d on typical value		ole Ca			3.4mm (data cab	oles*	
unking								np 1 WITH BOX	Cor NO BOX	np 2	NO BOX	np 3 WITH BOX	Comp 4	
3+ compartment trunking	STERLING PROFILE	RLING		Profile 4 & 5:	Profile 4	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	_ _ _	54 45 31	19 16 11	52 43 30	17 14 10	- - -	
+ compa	4-13 PVC-U	1	218 x 50mm	Profile 5	Ø6.5mm Ø7.0mm Ø8.4mm	22 18 13	- - -	54 45 31	19 16 11	52 43 30	17 14 10	- - -		
8		16 Z	Profile 6: 269 x 50mm	Profile 6	Ø6.5mm Ø7.0mm Ø8.4mm	52 43 30	17 14 10	54 45 31	19 16 11	52 43 30	17 14 10	- - -		
			12 & 13	3	Profile 11	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	- - -	54 45 31	19 16 11	50 42 29	15 13 9	18 15 10	
				Profile 11, 12 & 13: 255 x 50mm	Profile 12	Ø6.5mm Ø7.0mm Ø8.4mm	18 15 10	- - -	54 45 31	19 16 11	50 42 29	15 13 9	20 17 12	
				Profile 13	Ø6.5mm Ø7.0mm Ø8.4mm	20 17 12	- - -	54 45 31	19 16 11	50 42 29	15 13 9	20 17 12		
			50				Con	np 1		Con	np 2		Comp 3	
	ELEGANCE						•		NO	вох	WITH	н вох	оср с	
	170 ALUMINIUM		E 2 3	170 x 55mm	Elegance 170	Ø6.5mm Ø7.0mm Ø8.4mm	2	5 1 4	5	63 53 37	2	24 20 4	25 21 14	

^{*}All calculations allow for a 45% space factor

Bend radius	Internal	External	Flat Tee	Flat Angle	Slow Bend	For PVC-U	ranges only
control	Bend	Bend	riat iee	riat Allyle	Slow Bella	Steel insert	Copper spray
	Moulded	Moulded	Fabricated	Moulded	Special#		
	Moulded	Moulded	Fabricated	Fabricated	Special#		Please contact the Technical Team on +44 (0)1424 856688 for options regarding special screening requirements
25mm & 50mm	Moulded	Moulded	Fabricated	Fabricated	Special#	✓	
	Moulded	Moulded	Fabricated	Fabricated	Special#		
	Moulded	Moulded	Fabricated	Fabricated	Special#		
	Moulded	Moulded	Fabricated	Fabricated	Special#		
25mm & 50mm	Fabricated	Fabricated	Fabricated	Fabricated	Fabricated	N/A	N/A

#These products are made to special order and may be subject to minimum order quantities and longer lead times.

† Slow bends are not required as built-in cable guides within fittings are standard.

For Technical Information about usage of data trunking, please see page 246.

Trunking for laboratory and healthcare environments

Marshall-Tufflex has many years of experience in providing cable management solutions for medical and healthcare environments.

Trunking systems for this specialised type of application are available in both aluminium and PVC-U, to carry gas, power, data, telecoms and nurse call, providing first class screening performance and optional antimicrobial protection.



What we offer

- PVC trunking that is light in weight making it easy to install and clean.
- Aluminium systems with multiple compartments providing LSOH containment for wiring, gas and air services.
- BIO trunking solutions to prevent the spread of infections and disease in environments such as hospitals, care homes, surgeries and health centres.

Built-in protection

Where hygiene is a priority, we offer cable management systems with integral antimicrobial properties. By incorporating silver ions within the PVC-U based material the perimeter trunking will deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

Bio trunking uses a silver ion solution throughout the product, ensuring that 99.9% of harmful bacteria – like MRSA – will not survive on the surface.



PVC-U trunking

Compact

130 x 50mm to 181 x 50mm

A range of small and medium sized, two compartment, dado and skirting systems with varying compartment sizes suited to fit within areas that have trunking height restrictions for example to negotiate radiators or window sills.



Compartments can be subdivided and screened if required.

Mono Plus 20

140 x 50mm

An economical and stylish 3 compartment dado trunking for use where space is limited. Mono Plus has one piece fittings with a single lid for improved security.



Sterling Profile

167 x 50mm

A popular stylish medium sized trunking system for dado and skirting application with three segregated compartments.
Sterling Profile 1 has been tried and tested within the laboratory

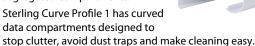


and healthcare environment over many years. Compartments can be subdivided and screened if required.

Sterling Curve

167 x 50mm

Sterling Curve is a stylish medium sized trunking system for dado and skirting application with three segregated compartments.



Sterling Curve Profile 1 is available as standard with Bio antimicrobial protection within the PVC-U material. See page 36.

Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller compartments designed specifically for heavy traffic areas such as hospitals. Odyssey's completely curved profile is



designed to prohibit clutter, avoid dust traps and makes cleaning easy. Compartments can be subdivided and screened if required.

Odyssey is available as standard with Bio antimicrobial protection within the PVC-U material. See page 36.

Twin Plus

210 x 57mm

An attractive high capacity segregated two compartment containment system which is ideal for carrying power and data services. Compartments can be subdivided and screened if required.



Bench trunking

105 x 105mm

An easy to install robust, angled trunking that can be mounted directly on laboratory and medical workbenches or angled under shelving. Compartment can be subdivided and screened if required.



Aluminium trunking systems

Bench trunking

105 x 105mm

A robust, angled trunking that can be subdivided and is suitable for laboratory and medical workbenches or angled under shelving. A PVC-U dividing fillet is available with screening if required.



XL trunking

220 x 65mm to 308 x 65mm

A range of large three and four compartment dado and skirting trunking systems with separate compartments and individual covers. XL Trunking can accept gas and air outlets and can be extended to provide additional compartments. A PV

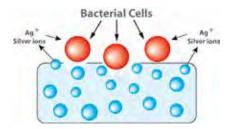


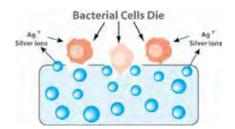
provide additional compartments. A PVC-U dividing fillet is available with screening if required.

Bio trunking solutions offer:

- Prevention of harmful bacteria growth (for more details see test results on page 313)
- Antimicrobial properties inherently formulated within the PVC-U
- · A durable, non-leaching antimicrobial treatment
- Testing to ISO 22196:2007
- Proven silver ion-based technology to neutralise any bacteria with which it comes into contact
- Registration with the Environmental Protection Agency (EPA).
- Compliance with the European Biocidal Products Directive (BPD).
- Proven reductions in bacterial viable count by more than 99.9%.
- · Antimicrobial treatments provide an extra level of protection when combined with normal cleaning procedures.

Bio trunking can be recognised by checking for the 'Bio' mark on the inside of the trunking lid. They can also be tested by using a UV light on the external surface of the trunking. The Bio system will reflect blue under UV light rather than violet.





Bio trunking from Marshall-Tufflex

Odyssey and Sterling Curve Profile 1 trunking is available as standard with Bio antimicrobial protection within the PVC-U material. The following trunking ranges are available in Bio but are made to order and therefore will incur set up charges and an extended lead time.

- Bench trunking
- Compact
- Mono Plus 20
- Sterling Profile
- Twin Plus
- XL

		Odyssey Bio trunking component chart										
	Trunking assembly	End cap (1 piece)	Coupler (1 piece)	Internal bend (1 piece)	Internal adjustable bend	(1 piece)	External adjustable bend	down)	(up or down)	1 gang Bio data mounting frame	frame	
Odyssey 180 x 57mm	DD1B Pack 1 x 3m	DD1233 Pack 2	DD1213 Pack 1	DD1313 Pack 1	DD1333 Pack 1	DD1353 Pack 1	DD1373 Pack 1	DD1413 Pack 1	DD1433 Pack 1	DD1561 Pack 1	DD1571 Pack 1	

Sterling Curve Bio trunking component chart Main compartment External Flat angle Flat tee Internal bend bend Curve cover Coupler End cap complete complete cover Sterling Curve ETL1BI0WH CETC1BIOWH CECP1MBIOWH CEECP1MBIOWH CEIBP1MBIOWH CEXBP1MBIOWH CEFA1MBBIOWH CEFT1MBBIOWH Profile 1 Pack 8 x 3m Pack 8 x 3m Pack 5 Pack 5 Pack 5 Pack 5 Pack 1 Pack 1 167 x 50mm

Test Results

TEST RESULTS: Marshall-Tufflex Report 2709051

LABORATORY: Thomson Research Associates Inc., Ontario, Canada TEST ORGANISM: Methicillin Resistant Staphylococcus Aureus (MRSA)

Quantitative Assessment of Activity – ISO 22196:2007 MRSA				
Concentration of starting inoculum 4.94 x 10⁵ CFU/mL				
Sample Description	Number of bacteria recovered	Log Value	R = [log(B/C)]	% Survival
 Flat profile – Blue Tape, White PVC – untreated control 	7.19 x 10 ⁶	6.9		
 Curved profile – Red Tape, White PVC – Treated with Ultra-Fresh CA-16 	<2.00 x 10 ¹	<1.3	>5.6	<0.1%

The treated curved profile (Sample 2) showed excellent control of both MRSA and Klebsiella Pneumoniae with a greater than 99.9% reduction in bacteria compared to the untreated flat profile (Sample 1). The bacteria grew on the untreated sample.



Bio trunking has demonstrated effectiveness against:

- Methicillin resistant Staphylococcus aureus (MRSA): an antibiotic resistant, opportunist pathogen that can survive on surfaces within the hospital environment.
- Klebsiella pneumoniae: an opportunist pathogen affecting people with a weakened immune system.
- Streptococcus pyogenes: tonsillitis, scarlet fever, necrotising fasciitis (the 'flesh-eating bug').
- Vancomycin-resistant Enterococcus faecalis: E.faecalis: a concern when antibiotic resistance is acquired.
- Escherichia coli: All of us are colonised by E.coli in our gut but this bacterium
 can cause infections if it is transferred to a wound or a different part of the body
 causing severe food-associated illness.
- Pseudomonas aeruginosa: a common bacterium found in water and other environments and is associated with burns infections, medical device infections and food spoilage.
- Acinetobacter baumanii: is associated with HAI and is often resistant to antibiotics.
- Bacillus subtilis is a spore forming bacterium with the ability to form resistant spores that cause a problem for cleaning and disinfection.
- Salmonella: the Salmonella species cause food-borne illness.
- Legionella: Legionellosis is a severe form of pneumonia caused by inhalation of infected aerosols, for example via air conditioning systems.
- Lactobacilli are essentially non-pathogenic: they are often used as probiotics.
 Some species cause spoilage, for example in the brewing industry.
- · Corynebacterium pseudodiphtheriticum:, associated with respiratory infection.

White Paper

Joanna Verran is Professor of Microbiology in the School of Biology, Chemistry and Health Science at Manchester Metropolitan University. Her research is interdisciplinary, involving collaboration with materials scientists, polymer and dental technologists and surface engineers focusing on the interactions occurring between microorganisms and inert surfaces. In 2008, Professor Verran wrote a 6-page White Paper on the effectiveness of silver ion pregnated antimicrobial trunking for Marshall-Tufflex. Here are a few extracts from that paper:

"In the hospital environment, patients are particularly susceptible to infection, thus reduction in the transfer of microorganisms directly from person to person and indirectly via inanimate objects, is a key objective. The microorganisms present may also be more resistant to antibiotics.

- "... 'silver ions' exert a bactericidal effect at very low concentrations. Unlike antibiotics, which have specific targets present in microbial cells thus demonstrating 'selective toxicity' ... silver, like other biocides, is toxic to multiple components of bacterial cell metabolism. These include damage to the bacterial cell wall and membrane permeability.
- "... damage leads to blockage of transport and enzyme systems, alterations of proteins, ... and binding of microbial nucleic acid, which prevents protein synthesis and cell division.
- "... rapid or sustained release is important ... demonstrated by impregnated surfaces where the silver is mobile and essentially renewable to the surface. Coatings might, in contrast, be lost or exhausted more rapidly."

To download the White Paper in full, please go to www.marshall-tufflex.com

Antimicrobial Bio Twin Plus trunking proved the perfect choice for the £22 million Selby Community Project, collaboration between the NHS and local authority to

locate a community hospital, health clinic and council offices into a shared new build in the North Yorkshire town.

Case Study 1

Selby project showcases benefits of Twin Plus trunking



Large capacity Twin Plus is available in standard and antimicrobial versions, allowing consulting engineers DSSR to specify antimicrobial Bio Twin Plus for the hospital and standard Twin Plus for the council offices, creating a continuous aesthetic throughout the building. The hospital has 24 GP-led beds, a minor injuries unit, diagnostic facilities and minor surgery suite. It achieved a rating of

'excellent' against BREAAM, the international environment

DSSR said: Bio Twin Plus offers the really valuable properties of an antimicrobial trunking system where it matters most, in the healthcare environment. Infection control is a huge issue and Bio Twin Plus supports cleaning regimes by working 24/7 in the fight against harmful bacteria."

assessment tool.

Silver-ion protection is added to Bio's PVC-U formulation during manufacture, meaning that the bug-busting solution is incorporated within the Twin Plus. As a result it works 24 hours a day for the life of the trunking to kill bacteria such as MRSA, E-Coli and Salmonella, even if the trunking is scratched or knocked.

Bio Twin Plus has been tested to the quantitative standard ISO 22196:2007. Results show the survival rate of tested bacteria to be less than 0.1%. Marshall-Tufflex's Bio formulation is registered with the Environmental Protection Agency (EPA) and compliant with the European Biocidal Products Directive (BPD).

Case Study 2

Powerful product mix for hospital improvements



A triple product mix of all-curved Odyssey trunking, DDA-compliant blue accessory boxes and free-standing Powerpoles proved to be a powerful team for a refurb of a Norfolk hospital department.

The James Paget University Hospital in Great Yarmouth, required a combination of cable management solutions for its Pathology Department which involved the re-fitting of the laboratory, ancillary rooms and plant room.

The all-curved Odyssey trunking profile is used regularly at James Paget University Hospitals NHS Foundation Trust, making it a natural choice. The system is renowned for its good-looking curved profile, which makes it impossible to clutter and easy to clean – imperative in healthcare environments. Its adjustable internal and external bends, built-in cable tray and comprehensive range of moulded fittings make it an aesthetically pleasing and highly functional solution.

Specification of free-standing Powerpoles continued the emphasis on function combined with looks, as hospital Design Office Manager Brian Tate explained: "We wanted Powerpoles for the Pathology Department as they create a more open plan space and are more practical for accessing power supplies within a large area."

Both the Powerpoles and Odyssey trunking within the Pathology Department were fitted with smart DDA-compliant blue accessory boxes and were installed by electrical contractor Imtech Inviron.

SPECIALISED SOLUTIONS

Marshall-Tufflex's Specialised Solutions team was set up with the specific aim of working with clients to find a way around their installation challenges. This dedicated team addresses some of the difficult cable management problems encountered by designers, consulting engineers and contractors and, with the help of the in-house Design Office, fabricates versatile design solutions that combine functionality, style and safety.



Heathrow Airport Terminal 5

Product: Stainless steel floor boxes

Heathrow

The Heathrow Airport T5 project required bespoke stainless steel floor boxes delivering access to data and power supply systems vital for the safe and effective running of the airport and visually compatible with the floor finishes of the terminal building.

Several hundred of these access units were built to sit flush with the floor and designed to comply with Health and Safety legislation for pedestrian traffic.



Working closely with SPIE Matthew Hall and BAA, Marshall-Tufflex collaborated to produce rectangular, round and square floor boxes in various sizes. Many of the boxes have lockable lids and all are fabricated in heavy duty stainless steel to take higher point load than standard floor boxes, enabling them to cope with wheeled traffic and protect the cables within. The boxes accommodate Cat 6 cabling with provision for Cat 7 and Cat 7a systems.

BBC

Product: Power distribution units

BBC

The BBC's massive project of redevelopment to Broadcasting House in central London houses 5,000 people, delivering news nationally and globally as well as national radio and music services, creating one of the largest live newsrooms in the world and using the latest broadcast technology.

The project utilises Marshall-Tufflex's MT32 prefabricated wiring system, eliminating hard-wiring on site and permitting much faster installation times. It is delivered to site in cable management 'bays' complete with pre-wired cable sets marked with circuitry and ready to feed into distribution boards.

The system is installed into the initial fit-out of the Central Apparatus Area and Local Apparatus Rooms throughout the new 12-storey building, including three basement levels.



The 'bays' are installed above ceiling height and constructed from a combination of Marshall-Tufflex's PVC-U Maxi Trunking and Mono 10 with specialised Cee-Norm sockets. The complexity of the vast amounts of circuitry has necessitated the building of extra large containment units with the necessary headroom – some as much as 18 metres long with a 150mm x 150mm high containment capacity. A large number of sockets and cables in relatively short spaces have also been addressed by this cable management solution.

"We met what was a complex and very quick programme on time. The standard of Marshall-Tufflex's pre-manufactured units was good and helped us to reach timescales when under pressure."

Phoenix Electrical Co Ltd

Marks & Spencer

Product: Universal charging racks

M&S

The requirement to streamline the re-charging of Marks & Spencer's staff communication handsets in stores throughout the UK, involved the development of a wall-mounted system that delivers power to a large number of chargers.

The customised system not only allows M&S staff to locate handsets in the charging rack quickly and easily, it also eradicates unsightly and potentially hazardous wires and leads.



Newquay School

Product: Curved trunking



"With the nature of this circular design, the trunking was a key element. Only Sterling could give us scope to achieve the architect's vision, and the end result has met everyone's expectations."

Cornwall County Council

Architectural practice, The Bazeley Partnership, designed a new IT department within the sixth form of Tretharras School in Newquay for Cornwall County Council.

The architects' design included curved cable containment wrapped around a central workstation as the focal point of the room.

CCC's senior electrical engineer, David Shuff, turned to Marshall-Tufflex for a solution that could cope with the curved external and internal bends, all at dado level.

Marshall-Tufflex recommended its multi-compartment PVC-U perimeter cable management system, Sterling Profile 1, of which 40 metres was pre-curved to order.

Woodwater House

Product: Horizontal PowerPoles

Marshall-Tufflex provided a spectacular solution for Michelmores Solicitors' striking glass building in Exeter.

Series 2 PowerPoles in aluminium were specified to blend in with existing steel columns, manufactured with special bends and suspended horizontally around the building to carry power and low voltage lighting in a way that sympathised perfectly with the existing steel work.

TES Projects Ltd, contractors for the installation commented:
"The system suits the purpose really well, it carries segregated fire alarm and door entry cabling and it all looks really good."



Freeman Hospital

Product: MT32 Home run

Milton Keynes-based contractor, Hobbs Electrical, used Marshall-Tufflex's MT32 Prefabricated modular wiring system home run for the fit-out of a new modular build operating theatre at the Freeman Hospital in Newcastle.

The MT32 home run takes power distribution and lighting systems from the hospital's distribution boards to a mastering unit in a local position in the new theatre.

The pre-wired, pre-tested home run is supplied with 9 circuits for power and light. It can also accommodate up to 10 circuits with a maximum of 32 cores and can be configured for any combination of power and lighting and for conductor sizes from 1.5mm² to 10mm².

The MT32 home run distributes power from the main board and is simply bolted into place and connected up via a male HARTING plug, which makes the connection from the distribution board to the home run and into the theatre's mastering unit, from where MT32's 32Amp underfloor distribution system takes power out to all areas of the new operating theatre.



"We wanted a plug-in power connection system because they are far quicker to install and can be disassembled when the building is decommissioned. We have been really impressed with MT32 and now plan to use it across most, if not all, of our contracts".

Hobbs Electrical Services

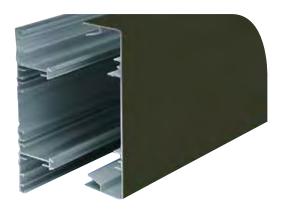
Birmingham University

Product: Sterling Profile 3003 aluminium – matt black

Marshall-Tufflex has supplied Birmingham University's School of Physics and Astronomy with an unusual trunking for the laboratories housing a study into the behaviour of cold atoms.

To aid the study into quantum phenomena by exploiting cold atom gases as a unique window into the quantum world, the laboratory is fitted out with matt black trunking. This acts as a safety measure because the work utilises high powered lasers. Should a laser beam escape, a matt black trunking will absorb the light.

The aluminium Sterling Profile 3003 feeds power and data at dado height around the laboratories and has also been installed on overhead canopies sited above work benches.



St Aloysius College, Highgate

Product: MT32 and specially curved Odyssey trunking

Marshall-Tufflex provided an MT32 prefabricated modular perimeter wiring system and Cat 6 compliant Odyssey trunking in specially curved lengths to allow for fixing to the corresponding architecturally curved walls of the library building.

MT32 and Odyssey trunking provided economic and fast-fit installations at St Aloysius College, Highgate, one of eight secondary schools to undergo complete rebuilding or substantial refurbishment within Islington's Building Schools for the Future (BSF) initiative.

Balfour Beatty Engineering Services selected Marshall-Tufflex's MT32 contained within Odyssey's contemporary curved dado trunking system and Tom Counihan, electrical engineer for BBES, explained why:



"We compared plug and play systems but liked the fact that MT32 is extremely neat and provides significant installation time reductions. Odyssey appealed because it is CAT 6 compliant, easy to install and because it is the most aesthetically pleasing of the containment systems we have looked at – and we have looked at quite a few! The client is happy with it and we are happy with it. As a result of the effectiveness of both systems, we are taking them through other schools within the BSF initiative."

Balfour Beatty Engineering Services

Pre-formed trunking

PVC–U trunking systems can be pre-curved to order for installation on curved walls and curved furniture.

Please contact the Technical Team on +44 (0)1424 856688 for a bespoke quotation.

Please note minimum bend radius is required

Series 2 PowerPost suspended





Ceiling-mounted units supplying various services are available as fixed items.

Combination bend

A combination internal corner to flat bend and bend to mini trunking. These can be made to order for most PVC–U trunking.



135°/45° bends

Pre-fabricated 135°/45° bends in a variety of profiles can be fabricated to order. Other angles can also be produced upon request.

PVC Trunking reducer

A section of trunking which has been reduced in depth so that it can pass behind radiators or pipes.



Fabricated connections

Fabricated units for joining or interconnecting two different sizes or models of PVC–U trunking.



Profile sets

Pre-fabricated sets for negotiating columns, window bays and non-standard corners.



Multi-service pods

IEC 60309 industrial sockets on back to back aluminium bench trunking with 25mm raised brackets to raise units above any floor level water collection.



Pre-wired units

Pre-wired modules with standard UK accessories can be built to order and are supplied fully assembled and tested in-house.



GRP LADDER AND TRAY SYSTEMS

GRP ladder and tray support systems provide robust yet lightweight cable management for industrial and commercial applications. **Marshall**

Glass Reinforced Polyester (GRP)

Glass reinforced polyester (GRP) cable management systems are vitally important for use in the transport, petrochemical and construction industries where it is used to provide lightweight yet mechanically strong materials which replace heavier, more energy consuming materials such as aluminium, steel and concrete. It is a highly competent engineering material, capable of being specified for a large number of construction applications.

GRP cable management systems are well suited to aggressive environments where there might be extreme weather or high temperatures. They are extremely robust, considerably lighter than aluminium or steel, and have excellent resistance against fire and corrosion resulting in a very long life span. GRP systems have a large cable capacity, and offer fast and flexible installation solutions, with the ability of on-site assembly and configuration.

Marshall-Tufflex can offer a wide range of GRP systems including trays, ladders, ground ducts, troughing, accessories and fittings, fixings and supports.

What is RISQS?

RISQS, formerly known as Achilles Link-up, has been developed to provide a service for the qualification of suppliers for all products and services that are procured by the industry. RISQS supports Network Rail, LUL/Transport for London, train operators and other rail products and services providers in the management of supply chain risk. RISQS is an independent, third party qualification assessment of a supplier's capability to supply products and services.



Marshall-Tufflex is registered with the RISQS Railway Industry Supplier Qualification scheme

Approvals

Mechanical Behaviour

Breaking point to NEMA FG1 Tensile strength at break point to ISO 527-5 Breakage voltage to IEC 60243-1 Modulus of elasticity to ISO 527-5 Accelerated ageing to ISO 4892-2

Electrical behaviour

Surface resistivity to IEC 6079-0 Comparative tracking index IEC 60112

Density to DIN 53479 Linear Thermal Dilatation to DIN 53752 Water Absorption to ISO 62



Environmental

- · Analysis shows GRP to have one of the best environmental impact profiles of any strong building material.
- Use of acetone has been eliminated
- · Light weight and easy handling can result in considerable fuel savings.
- · Reduction in the need for motorised cranes and platform lift vehicles.
- · Buildings using GRP within their infrastructure are lighter and require less energy to heat.



and sustainability

- GRP is easily dismantled and cut up to use in road metalling.
- · Recycling trials for composite parts are progressing satisfactorily in several European programmes, using GRP as a source of heat energy and the resultant residue as raw material in cement manufacture
- GRP can be re-used in other buildings.
- · Building performance life of 40 to 50 years.



EMI protection

(Electromagnetic interference)

• Not applicable for this material.



Fire performance

• Excellent fire performance, GRP is a self-extinguishing composition, halogenfree and with low smoke and fume properties.

Fire Behaviour

- Inflammability to IEC 60695-2-12/ UL94
- Spread of flame to BS 476 part 7 class 2/ ASTM E84 (Up to Class 1 on request)
- Fire propagation to BS 476
- Smoke emissions to BS 6853 App B53
- Fire standard to DIN 4102

Marshall-Tufflex LSOH GRP systems are very robust and particularly suitable for interior and exterior areas where resistance to corrosion is a requirement. They are considerably lighter than aluminium or steel and have excellent fire performance.

Pressed tray

50 x 50mm to 400 x 80mm

A complete range of pressed GRP trays for extended support span up to 3metres.



Pultruded ladder

200 x 53mm to 900 x 150mm



GRP industrial support systems

for supporting large power cables

Brackets, bolts and rails for use with other GRP systems.



Ground ducts

250 x 140mm to 450 x 176mm

Self-supporting systems ideal for railway applications.



Cable troughing

150 to 250 x 150mm

Suited to railway applications where cable ducts cannot be buried.



Note: you may use the rule on the left of this page to check profile sizes.

GRP cable management systems incorporate non-conductive and self-extinguishing properties, as well as stability, wherever they are subjected to high levels of UV and extreme temperatures. GRP systems are ideal solutions for installation in tunnels, bridges, railways, underground, offshore and marine environments.

Petrochemical and Process Plant industries:

Cut down corrosion and maintenance costs Reduce installation costs

- · No earthing required
- No expensive protection accessories or coating
- · No sharp edges or burrs, from cutting or drilling

Ensures strong mechanical resistance and a lighter weight Reduces weight of structure

- Saves 40% against stainless steel
- Saves 15% against aluminium



Energy Distribution:

Very strong mechanical resistance, even with high temperature variation No expensive protection accessories or coating necessary

Optimum safety:

- Self-extinguishing UL94 V0
- No toxic fumes or halogen in case of fire (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- · No sharp edges or burrs, from cutting or drilling



Road:

Resists corrosion: combustion gas, salt

Optimum safety:

- Self-extinguishing UL94 V0
- Does not emit halogen or smoke (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- No sharp edges or burrs, from cutting or drilling

Flexibility and easy mounting:

- Reduces installation costs with unique self coupling mechanism
- Save time and money as no earthing is required
- Ensures strong mechanical resistance with a lighter weight than metal
- No expensive protection accessories or coatings necessary
- Excellent vibration resistance



Sea:

Resists corrosion: atmospheric, UV, saline Save installation time and costs:

Reduces use of bolts with clip-on splice plates and fixings

- No expensive protection accessories or coatings necessary
- No sharp edges or burrs, from cutting or drilling
- Ensures strong mechanical resistance with a lighter weight than metal
- Excellent vibration resistance



Rail:

Optimum safety:

- Self-extinguishing UL94 V0
- In the event of fire, no halogen toxic fumes (fire classification: M1, i0, F0; ASTM E84, Class 2 or Class 1; BS 476 Part 7, Class 2 or 1)
- No sharp edges or burrs, from cutting or drilling

Flexibility and easy mounting:

- · Reduces installation costs with unique self coupling mechanism
- · No earthing required
- · Very strong mechanical resistance, even with high temperature variation
- · 10 times lighter than concrete
- Excellent vibration resistance



Basic components

GRP standard span cable tray (1.5m) and fittings are pressed from glass reinforced polyester resin, using hot moulding technology and facilitating the manufacture of smooth intricate shapes. The system is ideal for installation into tunnels, bridges, railways, underground, offshore and marine environments.

Product information

- A variety of sizes from 50 x 50mm to 400 x 80mm
- 40% lighter than steel
- Completely corrosion resistant against salt spray, H25, acid build up from exhaust gases and brake dust along roads and railways
- No need for painting or protective coating
- Classified LSOH material
- Self-extinguishing
- Low conductivity
- · Earthing not required
- Antimagnetic and resistant to electromagnetic pulses
- Effective at temperatures between -80 $^{\circ}$ C to +130 $^{\circ}$ C.
- · Lower life cycle cost
- Fast installation with fewer fasteners
- Easy to cut and drill
- · Load characteristics in accordance with IEC 61537 (for load or other calculations and values, please refer to the technical section).



Reduced use of bolts

GRP is a non-conductive material with excellent fire performance and high corrosion resistance



50 x 50mm

100 x 50mm

150 x 50mm

200 x 50mm

300 x 50mm

100 x 80mm

150 x 80mm

200 x 80mm

300 x 80mm

400 x 80mm

Non-perforated pressed tray

KK5050

KK10050

KK15050

KK20050

KK30050

KK10080

KK15080

KK20080

KK30080

KK40080





	p e. e
50 x 50mm	1
100 x 50mm	1
150 x 50mm	1
200 x 50mm	1
300 x 50mm	1
100 x 80mm	1
150 x 80mm	1
200 x 80mm	1
300 x 80mm	1
400 x 80mm	1
	100 x 50mm 150 x 50mm 200 x 50mm 300 x 50mm 100 x 80mm 150 x 80mm 200 x 80mm 300 x 80mm



Tray Cov	-I	
code	size	pack
KKD50	50 x 50mm	1
KKD100	100 x 50/80mm	1
KKD150	150 x 50/80mm	1
KKD200	200 x 50/80mm	1
KKD300	300 x 50/80mm	1
KKD400	400 x 80mm	1







Tray cover clip			
code	size	pack	
DF50	50mm	1	
DF80	80mm	1	



Tray end cap		
ode:	size	pack
KKE5050	50 x 50mm	1
KKE10050	100 x 50mm	1
KKE15050	150 x 50mm	1
KKE20050	200 x 50mm	1
KKE30050	300 x 50mm	1
KKE10080	100 x 80mm	1
KKE15080	150 x 80mm	1
KKE20080	200 x 80mm	1
KKE30080	300 x 80mm	1
KKE40080	400 x 80mm	1



Tray internal bend base		
code	size	pack
KKBI5050	50 x 50mm	1
KKBI10050	100 x 50mm	1
KKBI15050	150 x 50mm	1
KKB120050	200 x 50mm	1
KKB130050	300 x 50mm	1
KKBI10080	100 x 80mm	1
KKBI15080	150 x 80mm	1
KKB120080	200 x 80mm	1
KKB130080	300 x 80mm	1
KKB140080	400 x 80mm	1



Tray internal bend cover			
code	size	pack	
KKBID5050	50 x 50mm	1	
KKBID10050	100 x 50mm	1	
KKBID15050	150 x 50mm	1	
KKBID20050	200 x 50mm	1	
KKBID30050	300 x 50mm	1	
KKBID10080	100 x 80mm	1	
KKBID15080	150 x 80mm	1	
KKBID20080	200 x 80mm	1	
KKBID30080	300 x 80mm	1	
KKBID40080	400 x 80mm	1	











size	pack
50 x 50mm	1
100 x 50mm	1
150 x 50mm	1
200 x 50mm	1
300 x 50mm	1
100 x 80mm	1
150 x 80mm	1
200 x 80mm	1
300 x 80mm	1
400 x 80mm	1
	50 x 50mm 100 x 50mm 150 x 50mm 200 x 50mm 300 x 50mm 100 x 80mm 150 x 80mm 200 x 80mm 300 x 80mm 300 x 80mm

Tray external bend cover

rray external bend cover			
code	size	pack	
KKBAD5050	50 x 50mm	1	
KKBAD10050	100 x 50mm	1	
KKBAD15050	150 x 50mm	1	
KKBAD20050	200 x 50mm	1	
KKBAD30050	300 x 50mm	1	
KKBAD10080	100 x 80mm	1	
KKBAD15080	150 x 80mm	1	
KKBAD20080	200 x 80mm	1	
KKBAD30080	300 x 80mm	1	
KKBAD40080	400 x 80mm	1	

Tray flat angle base (small radius)

code	size	pack
KKW5050	50 x 50mm	1
KKW10050	100 x 50mm	1
KKW15050	150 x 50mm	1
KKW20050	200 x 50mm	1
KKW30050	300 x 50mm	1
KKW10080	100 x 80mm	1
KKW15080	150 x 80mm	1
KKW20080	200 x 80mm	1
KKW30080	300 x 80mm	1
KKW40080	400 x 80mm	1

Tray flat angle cover (small radius)

code	size	pack
KKWD50	50 x 50mm	1
KKWD100	100 x 50/80mm	1
KKWD150	150 x 50/80mm	1
KKWD200	200 x 50/80mm	1
KKWD300	300 x 50/80mm	1
KKWD400	400 x 80mm	1



Tray flat angle base

(large radius)		
code	size	pack
KKB15050	150 x 50mm	1
KKB20050	200 x 50mm	1
KKB30050	300 x 50mm	1
KKB10080	100 x 80mm	1
KKB15080	150 x 80mm	1
KKB20080	200 x 80mm	1
KKB30080	300 x 80mm	1
KKB40080	400 x 80mm	1



Tray flat angle cover (large radius)

code	size	pack
KKBD150	150 x 50/8	30mm 1
KKBD200	200 x 50/8	30mm 1
KKBD300	300 x 50/8	30mm 1
KKBD100	100 x 80m	nm 1
KKBD400	400 x 80m	nm 1



Tray flat angle 135° base (large radius)

(,	
code	size	pack
KKC10080	100 x 80mm	1
KKC15080	150 x 80mm	1
KKC20080	200 x 80mm	1
KKC30080	300 x 80mm	1
KKC40080	400 x 80mm	1



Tray flat angle 135° cover (large radius)

<u> </u>	/	
code	size	pack
KKCD100	100 x 80mm	1
KKCD150	150 x 80mm	1
KKCD200	200 x 80mm	1
KKCD300	300 x 80mm	1
KKCD400	400 x 80mm	1



Tray flat tee base

(Smail radius)		
code	size	pack
KKSS5050	50 x 50mm	1
KKSS10050	100 x 50mm	1
KKSS15050	150 x 50mm	1
KKSS20050	200 x 50mm	1
KKSS30050	300 x 50mm	1
KKSS10080	100 x 80mm	1
KKSS15080	150 x 80mm	1
KKSS20080	200 x 80mm	1
KKSS30080	300 x 80mm	1



Tray flat tee cover (small radius)

(Siliali laulus)		
code	size	pack
KKSSD50	50 x 50mm	1
KKSSD100	100 x 50mm	1
KKSSD150	150 x 50mm	1
KKSSD200	200 x 50mm	1
KKSSD300	300 x 50mm	1
KKSSD100	100 x 80mm	1
KKSSD150	150 x 80mm	1
KKSSD200	200 x 80mm	1
KKSSD300	300 x 80mm	1



Tray flat tee base (large radius)

(large radius)		
code	size	pack
KKST10050	100 x 50mm	1
KKST15050	150 x 50mm	1
KKST20050	200 x 50mm	1
KKST30050	300 x 50mm	1
KKST10080	100 x 80mm	1
KKST15080	150 x 80mm	1
KKST20080	200 x 80mm	1
KKST30080	300 x 80mm	1
KKST40080	400 x 80mm	1



Tray flat tee cover (large radius)

code	size	pacl
KKSTD100	100 x 50/80n	nm 1
KKSTD150	150 x 50/80n	nm 1
KKSTD200	200 x 50/80n	nm 1
KKSTD300	300 x 50/80n	nm 1
KKSTD400	400 x 80mm	1



Tray offset base set

GRP ladder and tray systems

,		
code	size	pack
KKET10080	100 x 80mm	1
KKET15080	150 x 80mm	1
KKET20080	200 x 80mm	1
KKET30080	300 x 80mm	1
KKET40080	400 x 80mm	1



Tray offset cover set

code	size	pack
KKETD10080	100 x 80mm	1
KKETD15080	150 x 80mm	1
KKETD20080	200 x 80mm	1
KKETD30080	300 x 80mm	1
KKETD40080	400 x 80mm	1



rray reducer Ln base			
code	reduction	pack	
KKRL20080	200 to 100	1	
KKRL30080	300 to 200	1	
KKRL40080	400 to 300	1	



Tray reducer LH cover

code	reduction	pack
KKRLD200	200 to 100	1
KKRLD300	300 to 200	1
KKRLD400	400 to 300	1





code	reduction	pack
KKRR20080	200 to 100	1
KKRR30080	300 to 200	1
KKRR40080	400 to 300	1



Tray reducer RH cover

,		
code reduction		pack
KKRRD200	200 to 100	1
KKRRD300	300 to 200	1
KKRRD400	400 to 300	1



Tray pin rack

may piin	ucit	
code	size	pack
KR100	100 x 50/80mm	1
KR150	150 x 50/80mm	1
KR200	200 x 50/80mm	1
KR300	300 x 50/80mm	1
KR400	400 x 80mm	1





Tray divider

code	size	pack
KKT50	100 x 50mm	1
KKT80	100 x 80mm	1

Cover clips

Because GRP expands in heat these unique clips have been developed to ensure the lid remains firmly in place, even when subjected to extreme heat expansion. The clips are for use with the GRP tray and ladder systems and will prevent the lid from being displaced.

GRP cover clips

code	pack
DF50	1
DF80	1







Standard span pressed tray

Tray/trunking component chart



Length: 3 metres Pack 1	Non-perforated pressed GRP Tray	Perforated pressed GRP tray	Cover	Cover clip	Divider	End cap	Interna Base	al bend Cover	
50 x 50mm tray	KK5050	KKL5050	KKD50	DF50	KKT50	KKKE5050	KKBI5050	KKBID5050	
100 x 50mm tray	KK10050	KKL10050	KKD100	DF50	KKT50	KKKE10050	KKBI10050	KKBID10050	
150 x 50mm tray	KK15050	KKL15050	KKD150	DF50	KKT50	KKKE15050	KKBI15050	KKBID15050	
200 x 50mm tray	KK20050	KKL20050	KKD200	DF50	KKT50	KKKE20050	KKB120050	KKBID20050	
300 x 50mm tray	KK30050	KKL30050	KKD300	DF50	KKT50	KKKE30050	KKBI30050	KKBID30050	
100 x 80mm tray	KK10080	KKL10080	KKD100	DF80	KKT80	KKKE10080	KKBI10080	KKBID10080	
150 x 80mm tray	KK15080	KKL15080	KKD150	DF80	KKT80	KKKE15080	KKBI15080	KKBID15080	
200 x 80mm tray	KK20080	KKL20080	KKD200	DF80	KKT80	KKKE20080	KKB120080	KKBID20080	
300 x 80mm tray	KK30080	KKL30080	KKD300	DF80	KKT80	KKKE30080	KKBI30080	KKBID30080	
400 x 80mm tray	KK40080	KKL40080	KKD400	DF80	KKT80	KKKE40080	KKB140080	KKBID40080	

Product Information

All products are supplied in pack quantities of one.

A range of Pressed GRP Trays with 110mm wall height is also available on request.

Complete range of Pultruded Trays for extended support span up to 3 metres in 50mm and 80mm wall heights are also available on request.

Please contact us on +44 (0)1424 856600 for a lead time.

Tray/trunking component chart



External bend		Flat angle (small radius)		Flat angle (l	arge radius)	Flat angle 135°	(large radius)	Off	set
Base	Cover	Base	Cover	Base	Cover	Base	Cover	Base set	Cover set
KKBA5050	KKBAD5050	KKW5050	KKWD50	-	-	-	-	-	-
KKBA10050	KKBAD10050	KKW10050	KKWD100	-	-	-	-	-	-
KKBA15050	KKBAD15050	KKW15050	KKWD150	KKB15050	KKBD150	-	-	-	-
KKBA20050	KKBAD20050	KKW20050	KKWD200	KKB20050	KKBD200	-	-	-	-
KKBA30050	KKBAD30050	KKW30050	KKWD300	KKB30050	KKBD300	-	-	-	-
KKBA10080	KKBAD10080	KKW10080	KKWD100	KKB10080	KKBD100	KKC10080	KKCD100	KKET10080	KKETD10080
KKBA15080	KKBAD15080	KKW15080	KKWD150	KKB15080	KKBD150	KKC15080	KKCD150	KKET15080	KKETD15080
KKBA20080	KKBAD20080	KKW20080	KKWD200	KKB20080	KKBD200	KKC20080	KKCD200	KKET20080	KKETD20080
KKBA30080	KKBAD30080	KKW30080	KKWD300	KKB30080	KKBD300	KKC30080	KKCD300	KKET30080	KKETD30080
KKBA40080	KKBAD40080	KKW40080	KKWD400	KKB40080	KKBD400	KKC40080	KKCD400	KKET40080	KKETD40080



Standard span pressed tray

Tray/trunking component chart



Length: 3 metres Pack 1	Flat tee (sr Base	nall radius) Cover	Flat tee (lar Base	ge radius) Cover	Reducer le Base	eft hand Cover	Reducer rig Base	ght hand Cover	Pin rack
50 x 50mm tray	KKSS5050	KKSSD50	-	-	-	-	-	-	-
100 x 50mm tray	KKSS10050	KKSSD100	KKST10050	KKSTD100	-	-	-	-	KR100
150 x 50mm tray	KKSS15050	KKSSD150	KKST15050	KKSTD150	-	-	-	-	KR150
200 x 50mm tray	KKSS20050	KKSSD200	KKST20050	KKSTD200	-	-	-	-	KR200
300 x 50mm tray	KKSS30050	KKSSD300	KKST30050	KKSTD300	-	-	-	-	KR300
100 x 80mm tray	KKSS10080	KKSSD100	KKST10080	KKSTD100	-	-	-	-	KR100
150 x 80mm tray	KKSS15080	KKSSD150	KKST15080	KKSTD150	-	-	-	-	KR150
200 x 80mm tray	KKSS20080	KKSSD200	KKST20080	KKSTD200	KKRL20080 200 to 100mm	KKRLD200	KKRR20080 200 to 100mm	KKRRD200	KR200
300 x 80mm tray	KKSS30080	KKSSD300	KKST30080	KKSTD300	KKRL30080 300 to 200mm	KKRLD300	KKRR30080 300 to 200mm	KKRRD300	KR300
400 x 80mm tray	-	-	KKST40080	KKSTD400	KKRL40080 400 to 300mm	KKRLD400	KKRR40080 400 to 300mm	KKRRD400	KR400

Product Information

All products are supplied in pack quantities of one.

A range of Pressed GRP Trays with 110mm wall height is also available on request.

Complete range of Pultruded Trays for extended support span up to 3 metres in 50mm and 80mm wall heights are also available on request.

Please contact us on +44 (0)1424 856600 for a lead time.



GRP pultruded ladders are manufactured by pultrusion, a process using layers of mats and rovings injected with resin and pulled through a die in a continuous operation. The system is ideal for installation into tunnels, bridges, railways, underground, offshore and marine environments.

Product information

- A variety of sizes from 200 x 53mm to 900 x 150mm
- 40% lighter than steel
- $\hbox{-} Completely corrosion resistant against salt spray, H25, acid build up from exhaust \\$ gases and brake dust along roads and railways
- No need for painting or protective coating
- Classified LSOH material
- · Self-extinguishing
- Low conductivity
- · Earthing not required
- Antimagnetic and resistant to electromagnetic pulses
- Effective at temperatures between -80°C to +130°C.
- · Lower life cycle cost
- Fast installation with fewer fasteners
- Easy to cut and drill

Basic components

· Load characteristics in accordance with IEC 61537 (for load or other calculations and values, please refer to the technical section).





Ladder		
code	size pa	ick
UL200053	200 x 53mm	1
UL20080	200 x 80mm	1
UL150100	150 x 100mm	1
UL300100	300 x 100mm	1
UL400100	400 x 100mm	1
UL600100	600 x 100mm	1
UL900100	900 x 100mm	1
UL150150	150 x 150mm	1
UL300150	300 x 150mm	1
UL400150	400 x 150mm	1
UL600150	600 x 150mm	1
UL900150	900 x 150mm	1

Ladder co	ver		
code	size	pack	<
KKD200	200 x 53	mm 1	
KKD200	200 x 80	mm 1	Ī
KKD150	150 x 10	0mm 1	Ī
KKD300	300 x 10	0mm 1	
KKD400	400 x 10	0mm 1	
KKD600	600 x 10	0mm 1	Ī
KKD900	900 x 10	0mm 1	
KKD150	150 x 15	0mm 1	
KKD300	300 x 15	0mm 1	Ī
KKD400	400 x 15	0mm 1	
KKD600	600 x 15	0mm 1	
KKD900	900 x 15	0mm 1	ĺ



Ladder cover clip	
code	pacl
DF50	1
DF80	1
DF100	1
DF150	1



(Set of 2 pieces) code ULIH53 ULIH80 ULIH100

Ladder horizontal coupler *



Ladder int/ext angle base				
code	size p	ack		
ULBA20053	200 x 53mm	1		
ULBA20080	200 x 80mm	1		
ULBA150100	150 x 100mm	1		
ULBA300100	300 x 100mm	1		
ULBA400100	400 x 100mm	1		
ULBA600100	600 x 100mm	1		
ULBA900100	900 x 100mm	1		
ULBA150150	150 x 150mm	1		
ULBA300150	300 x 150mm	1		
ULBA400150	400 x 150mm	1		
ULBA600150	600 x 150mm	1		
ULBA900150	900 x 150mm	1		



Ladder int/e	xt angle cov	⁄er
code	size p	oack
ULBAD20053	200 x 53mm	1
ULBAD20080	200 x 80mm	1
ULBAD150100	150 x 100mm	1
ULBAD300100	300 x 100mm	1
ULBAD400100	400 x 100mm	1
ULBAD600100	600 x 100mm	1
ULBAD900100	900 x 100mm	1
ULBAD150150	150 x 150mm	1
ULBAD300150	300 x 150mm	1
ULBAD400150	400 x 150mm	1
ULBAD600150	600 x 150mm	1
ULBAD900150	900 x 150mm	1

^{*} Foldable splice plate requires 4 x M616V4ADOM



Ladder flat angle 90° base

Laudei nat	arigic 20	Dasi	_
code	size	ра	ıck
JLB20053	200 x 53ı	mm	1
JLB20080	200 x 80i	mm	1
JLB150100	150 x 100)mm	1
JLB300100	300 x 100)mm	1
JLB400100	400 x 100)mm	1
JLB600100	600 x 100)mm	1
JLB900100	900 x 100)mm	1
ULB150150	150 x 150)mm	1
JLB300150	300 x 150)mm	1
ULB400150	400 x 150)mm	1
JLB600150	600 x 150)mm	1
JLB900150	900 x 150)mm	1



Ladder flat angle 90° cover

		٠.
code	size pa	ck
ULBD200	200 x 53/80mm	1
ULBD150	150 x 100/150mm	1
ULBD300	300 x 100/150mm	1
ULBD400	400 x 100/150mm	1
ULBD600	600 x 100/150mm	1
ULBD900	900 x 100/150mm	1



Ladder flat tee base

code	size	pack
UTE20053	200 x 53mm	1
UTE20080	200 x 80mm	1
UTE150100	150 x 100mm	า 1
UTE300100	300 x 100mm	ո 1
UTE400100	400 x 100mm	ո 1
UTE600100	600 x 100mm	ո 1
UTE900100	900 x 100mm	า 1
UTE150150	150 x 150mm	ո 1
UTE300150	300 x 150mm	ո 1
UTE400150	400 x 150mm	า 1
UTE600150	600 x 150mm	า 1
UTF900150	900 x 150mm	າ 1



Ladder flat tee cover

code	size	ра	ck
ULTED200	200 x 53/80mr	n	1
ULTED150	150 x 100/150	mm	1
ULTED300	300 x 100/150	mm	1
ULTED400	400 x 100/150	mm	1
ULTED600	600 x 100/150	mm	1
ULTED900	900 x 100/150	mm	1



Ladder flat crossover base

code	size	pack
ULX20053	200 x 53mm	1
ULX20080	200 x 80mm	1
ULX150100	150 x 100mr	n 1
ULX300100	300 x 100mr	n 1
ULX400100	400 x 100mr	n 1
ULX600100	600 x 100mr	n 1
ULX900100	900 x 100mr	n 1
ULX150150	150 x 150mr	n 1
ULX300150	300 x 150mr	n 1
ULX400150	400 x 150mr	n 1
ULX600150	600 x 150mr	n 1
ULX900150	900 x 150mr	n 1



Ladder flat crossover cover

code	size pa	ıck
ULXD200	200 x 53/80mm	1
ULXD150	150 x 100/150mm	1
ULXD300	300 x 100/150mm	1
ULXD400	400 x 100/150mm	1
ULXD600	600 x 100/150mm	1
ULXD900	900 x 100/150mm	1



Ladder reducer

code	size	Reduction achieved	pack
ULR15053	200 x 53mm	150mm	1
ULR15080	200 x 80mm	150mm	1
ULR100100	150 x 100mm	100mm	1
ULR200100	300 x 100mm	200mm	1
ULR300100	400 x 100mm	300mm	1
ULR300100	600 x 100mm	500mm	1
ULR200150	150 x 150mm	100mm	1
ULR200150	300 x 150mm	200mm	1
ULR300150	400 x 150mm	300mm	1
ULR500150	600 x 150mm	500mm	1



Vertical variable angle plate (Set of 2 pieces)

plate (Set	or 2 pieces)	
code	size	pack
ULIV53	53mm	1
ULIV80	80mm	1
ULIV100	100mm	1
ULIV150	150mm	1



Ladder Clamp To Support +

code	pack
ULKG	1

⁺ ULKG requires 1 x M1040V4AHEX

Pultruded ladder

Ladder component chart













Length: 3 metres							
Pack 1	Ladder	Cover	Cover clip	Flat 90° Base	angle Cover	Int/Ext angle Base	Int/Ext 90° angle Cover
200 x 53mm	UL20053	KKD200	DF50	ULB20053	ULBD200	ULBA20053	ULBAD20053
200 x 80mm	UL20080	KKD200	DF80	ULB20080	ULBD200	ULBA20080	ULBAD20080
150 x 100mm	UL150100	KKD150	DF100	ULB150100	ULBD150	ULBA150100	ULBAD150100
300 x 100mm	UL300100	KKD300	DF100	ULB300100	ULBD300	ULBA300100	ULBAD300100
400 x 100mm	UL400100	KKD400	DF100	ULB400100	ULBD400	ULBA400100	ULBAD400100
600 x 100mm	UL600100	KKD600	DF100	ULB600100	ULBD600	ULBA600100	ULBAD600100
900 x 100mm	UL900100	KKD900	DF100	ULB900100	ULBD900	ULBA900100	ULBAD900100
150 x 150mm	UL150150	KKD150	DF150	ULB150150	ULBD150	ULBA150150	ULBAD150150
300 x 150mm	UL300150	KKD300	DF150	ULB300150	ULBD300	ULBA300150	ULBAD300150
400 x 150mm	UL400150	KKD400	DF150	ULB400150	ULBD400	ULBA400150	ULBAD400150
600 x 150mm	UL600150	KKD600	DF150	ULB600150	ULBD600	ULBA600150	ULBAD600150
900 x 150mm	UL900150	KKD900	DF150	ULB900150	ULBD900	ULBA900150	ULBAD900150

Product Information

All products are supplied in pack quantities of one.

Additional ladder widths in wall heights 53mm, 80mm, 100mm and 150mm are available on request.

6 metre lengths are available on request.

Please contact us on +44 (0)1424 856600 for a lead time.



Pultruded ladder















Length: 3 metres							Vertical	
Pack 1	Flat t Base	ee Cover	Flat cros Base	ssover Cover	Reducer	Horizontal coupler (Set of 2 pieces)	variable angle plate (Set of 2 pieces)	Ladder clamp to support
200 x 53mm	ULTE20053	ULTED200	ULX20053	ULXD200	§ ULR15053 150mm	*ULIH53	ULIV53	+ULKG
200 x 80mm	ULTE20080	ULTED200	ULX20080	ULXD200	§ ULR15080 150mm	*ULIH80	ULIV80	+ULKG
150 x 100mm	ULTE150100	ULTED150	ULX150100	ULXD150	§ ULR100100 100mm	*ULIH100	ULIV100	⁺ ULKG
300 x 100mm	ULTE300100	ULTED300	ULX300100	ULXD300	§ ULR200100 200mm	*ULIH100	ULIV100	+ULKG
400 x 100mm	ULTE400100	ULTED400	ULX400100	ULXD400	[§] ULR300100 300mm	*ULIH100	ULIV100	+ULKG
600 x 100mm	ULTE600100	ULTED600	ULX600100	ULXD600	§ ULR300100 500mm	*ULIH100	ULIV100	⁺ ULKG
900 x 100mm	ULTE900100	ULTED900	ULX900100	ULXD900	-	*ULIH100	ULIV100	+ULKG
150 x 150mm	ULTE150150	ULTED150	ULX150150	ULXD150	[§] ULR100150 100mm	*ULIH150	ULIV150	+ULKG
300 x 150mm	ULTE300150	ULTED300	ULX300150	ULXD300	§ ULR200150 200mm	*ULIH150	ULIV150	⁺ ULKG
400 x 150mm	ULTE400150	ULTED400	ULX400150	ULXD400	[§] ULR300150 300mm	*ULIH150	ULIV150	+ULKG
600 x 150mm	ULTE600150	ULTED600	ULX600150	ULXD600	[§] ULR500150 500mm	*ULIH150	ULIV150	+ULKG
900 x 150mm	ULTE900150	ULTED900	ULX900150	ULXD900	-	*ULIH150	ULIV150	⁺ ULKG

Product Information

- § Reduction achieved
- * Foldable splice plate requires 4 x M616V4ADOM
- + ULKG requires 1 x M1040V4AHEX



Support systems

Support system component chart

GRP Systems













Pack 1	FPAM Bracket	Bracket Type 'A' + 'B'	Adj. rail (GRP) 45 x 45 x 2000mm	Clamp bolt assembly S/S M10 x 30mm	H/D Bracket Type 'A' S/S	Adj. rail (S/S) 40 x 40 x 2000mm	Clamp bolt assembly S/S M10 x 30mm
100mm	FPAM100	FPAP100AC	FPAR2000AC	FPBGV10/V4A	-	ASSV2000	BGSV
<u>150mm</u>	-	FPAP150AC	FPAR2000AC	FPBGV10/V4A	-	ASSV2000	BGSV
200mm	FPAM200	FPAP200AC	FPAR2000AC	FPBGV10/V4A	AV200S	ASSV2000	BGSV
250mm	FPAM250	FPAP250AC	FPAR2000AC	FPBGV10/V4A	AV250S	ASSV2000	BGSV
300mm	FPAM300	FPAP300AC	FPAR2000AC	FPBGV10/V4A	AV300S	ASSV2000	BGSV
400mm	-	FPAP400AC	FPAR2000AC	FPBGV10/V4A	AV400S	ASSV2000	BGSV
500mm	-	FPAP500AC	FPAR2000AC	FPBGV10/V4A	AV500S	ASSV2000	BGSV
<u>600mm</u>	-	FPAP600AC	FPAR2000AC	FPBGV10/V4A	AV600S	ASSV2000	BGSV

Product Information

All products are supplied in pack quantities of one.

Other brackets and supports available on request.

Please contact us on +44 (0)1424 856600 for a lead time.



GRP ground ducts and profiles are ideal for railway applications wherever above ground installation is required.

Product information

Ducts

- 250 x 140mm to 450 x 176mm
- Rigid and self-supporting
- 3 x lighter than GRC (Glass fibre Reinforced Concrete)
- 10 x lighter than concrete
- 40% lighter than steel
- Impact and frost resistant
- Easy to handle and load

Profile

- 36 x 35mm to 143 x 53mm
- · Avoids ballast falling into ducts
- Ensures perfect positioning of ground duct covers
- Increases capacity of existing concrete ground ducts
- High mechanical and corrosion performance

For information on other available dimensions, please call our Technical Team. Tel: +44 (0)1424 856688



GRP is a non-conductive material with excellent fire performance and high corrosion resistance.

Ground ducts and profiles





Duct base 2500mm

code	size	pack
BK200140	250 x 140mm	1
BK300176	350 x 176mm	1
BK400176	450 x 176mm	1



Cover 1250mm			
code	size	pack	
BKDR200	250 x140mm	1	
BKDR300	350 x176mm	1	
BKDR400	450 x176mm	1	





Clip for cover mounting

code	size	pack
DF94/4	250 x 140mm	1
DF94/4	350 x 176mm	1
DF94/4	450 x 176mm	1

Set of clips and hinge for articulate cover mounting

articulat	c cover intount	9_
code	size	pack
DF94/C	250 x 140mm	1
DF94/C	350 x 176mm	1
DF94/C	450 x 176mm	1



Ground duct profile

code	size	pack
PR3635	36 x 35mm	1
PR5045	50 x 45mm	1
PR5555	55 x 55mm	1



Ground duct A profile

code	size	pack
PR5080	143 x 53mm	1

ound duct profile





- Increases cable capacity of existing concrete ground ducts
- High mechanical and corrosion performance
- · Highly effective at minimum cost





Basic components

GRP cable troughing is ideally suited to railway applications where cable ducts cannot be buried.

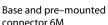
Product information

- 150 and 250 x 150mm
- Self-supporting base
- High mechanical loading capacity
- One post every 6m
- Lightweight product
- Only one person required for installation

For further information please call our Technical Team. Tel: +44 (0)1424 856688







comiccio	. 0.11	
code	size	pack
SP150150	150 x 150mm	1
SP250150	250 x 150mm	1



U-Shaped connector

code	size	pack
SPIH150150	150 x 150mm	1
SPIH250150	250 x 150mm	1



Splice plate

Spiree pie	100	
code	size	pack
KKIH150	150 x 150mm	1
	250 x 150mm	



Cable trough covers			
code	size		
KKDL150	150 x 15	0mm	

250 x 150mm

KKDL250



IIILEIIIai	vertical elbow	כו
code	size	pack
SPBI150	150 x 150mm	1
SPBI250	250 x 150mm	1



Cover for Internal vertical elbow 15°

vertical c	10011 13	
code	size	pack
SPBID150	150 x 150mm	n 1
SPBID250	250 x 150mm	1



LACCITIAL	vertical elbow	כו
code	size	pack
SPBA150	150 x 150mm	1
SPBA250	250 x 150mm	1



Cover for external vertical elbow 15°

code	size	pack
SPBAD150	250 x 150mm	1
SPBAD250	250 x 150mm	1







Horizontal elbow 15°

TIOTIZOTICAL CIDOW 13					
code size pacl					
SPB150	150 x 150mm	1			
SPB250	250 x 150mm	1			

Cover for horizontal elbow 15°

0.00		
code	size	pack
SPBD150	150 x 150mm	1
SPBD250	250 x 150mm	1





code	size	pad	ck
SPP100150	150/250>	(150mm	1



Steel post 2000mm			
code	size	pac	k
SPP100200	150/250 x 150	mm	1



Steel post 2500mm

Steel post 2500mm					
code	size	ра	ck		
SPP100250	150/250	x 150mm	1		



steer mounting plate			
code	size	pack	
SPC100150	150 x 150mm	1	
SPC100250	250 x 150mm	1	



HDG steel cable out fitting

code	size	pack	(
SPKA	150/250 x 1	150mm 1	



316 SS bolts and nuts for SPIH/KKIH

Ji ii i/ ikikii i				
code	size	pack		
SPM1025	for150/250 x 150m	m 1		



HDG steel bolts, nuts and U-shaped washers

code	size	pack
SPM102	5/HDG 150/250:	x 150mm 1



WIRE BASKET SYSTEMS

A comprehensive range of wire basket solutions for the simple routing of power and data cables.



NEW

Wire Basket systems

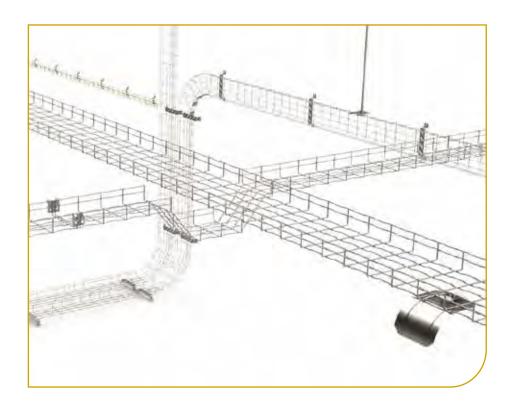
A comprehensive range of wire basket solutions for the simple routing of power and data cables. The range includes high load, and fast-coupling systems. All products are strong and simple to install and offer maximum cable ventilation and a high level of resistance to cable movement.

- · Strong, lightweight and simple to install
- Unique rippled wire to enhance product strength
- · Safety edges to prevent cable damage and personal injury
- · Corrosion resistance, can be used in harsh environments
- · Maximum ventilation, inspection and cleaning of cables
- · Extremely flex resistant under load
- Simple manipulations to the wire basket can overcome complicated changes in direction
- Fire resistant to E90 DIN 4101 section 12

Wire basket can be used in a wide range of environments which require the transport of cables.

- Industrial installations
- Commercial installations
- Solar Installations
- Wind Farms
- Railways







Marshall-Tufflex wire basket is available in a variety of finishes to meet the needs of the installation, whether that be due to the environment or to enhance the style of the installation.

Our wire basket is available in Electro-Zinc as standard, other finishes are available for selected systems but subject to longer lead items. Please contact our Technical Team on +44 (0)1424 856688 for more information.

The below table identifies the finish relevant for the environment.

		EZ Electro-Zinc	HDG Hot-Dip Galvanised Steel	SST Stainless-Steel (316 grade)
Interior	Dry	Recommended	Overspecified	Overspecified
	Humid	Limited resistance	Recommended	Overspecified
	Chemical industry	Not recommended	Limited resistance	Overspecified
	Food industry	Not recommended	Not recommended	Overspecified
Exterior	Urban	Limited resistance	Recommended	Overspecified
	Chemical industry	Not recommended	Limited resistance	Overspecified
	Food industry	Not recommended	Limited resistance	Recommended

Recommended

Limited resistance, please contact our Technical Team for more details on 01424 856688

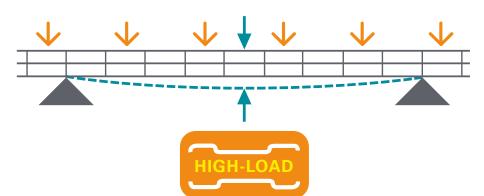
Overspecified for the environment

Rippled design

The unique rippled design of the base of the basket allows for the easy threading of cable ties and increased load capacity with greater resistance to flexing.

Innovative patented design which offers:

- Greater resistance to flexing
- · Greater safe working load
- Excellent aesthetic finish





A fast-coupling system allowing sections of wire basket to be simply joined together for super-fast installation using the integral couplers.

- · Quick and easy assembly assembles in just 2 steps
- The basket design incorporates integral couplers which gives the system strength and rigidity
- · The position of the couplers create a guide making a fast and easy assembly process
- · No tools required
- · Reduced installation time, saving labour costs
- · Two heights available; 65mm and 105mm
- · Safety edges to avoid damage to cables
- Optimal solution for installations that do not need big load necessities
- Maximum cable ventilation and a high level of resistance to cable movement
- · Ripple design offers a great resistance to flexing



Useful area

Base width	65mm	Height	105mm Height			
	in²	cm²	in²	cm²		
60	3.57	23	-	-		
100	7.29	47	-	-		
150	11.63	75	-	-		
200	15.81	102	28.83	186		
300	24.34	157	45.11	291		
400	32.86	212	61.38	396		
500	41.39	267	77.66	501		
600	49.91	322	93.93	606		

Fast-Coupling

Fast-Coupling Wire Basket is quick and simple to install:

- Two step mounting: fitting and pressure.
- The couplers at the end of the tray are used as guide in the assembly process.
- Once the couplers are connected the system offers excellent earth continuity across the joints.







Scan here to see just how quick the **Fast-Coupling system is to install**

65mm Height



Fast-Coupling Wire Basket 65mm Height

	dimensions mm						
code	description	width ₩	height ↓ <u>↓</u> ↓	length	pack		
MT2/7389	Basket with fast coupling 60x65mm	60	65	3000	8x3m	Ų	
MT2/7248	Basket with fast coupling 100x65mm	100	65	3000	8x3m	Ļ	
MT2/7249	Basket with fast coupling 150x65mm	150	65	3000	6x3m	i,	
MT2/7250	Basket with fast coupling 200x65mm	200	65	3000	6x3m	<u> </u>	
MT2/7251	Basket with fast coupling 300x65mm	300	65	3000	6x3m	ĹJ	
MT2/7394	Basket with fast coupling 400x65mm	400	65	3000	2x3m	<u> </u>	
MT2/7395	Basket with fast coupling 500x65mm	500	65	3000	2x3m	<u> </u>	
MT2/7396	Basket with fast coupling 600x65mm	600	65	3000	2x3m	Ĺ	



Fast-Coupling Wire Basket 105mm Height

	dimensions mm					
code	description	width	height	length	pack	
MT2/7397	Basket with fast coupling 200x105mm	200	105	3000	4x3m	<u> </u>
MT2/7398	Basket with fast coupling 300x105mm	300	105	3000	4x3m	Ļi
MT2/7399	Basket with fast coupling 400x105mm	400	105	3000	2x3m	Ĺ
MT2/7400	Basket with fast coupling 500x105mm	500	105	3000	2x3m	<u> </u>
MT2/7401	Basket with fast coupling 600x105mm	600	105	3000	2x3m	Ĺ



An innovative wire basket solution to accommodate high cable loads.

- · High cable capacity
- Maximum cable ventilation and a high level of resistance to cable movement
- · Ripple design offers greater resistance to flexing
- Greater safe working load
- Excellent aesthetic finish
- Quick and easy assembly (see page 68)
- Assemble using our range of Fast Fix Clip on couplers- no bolts required
- Three heights available; 35mm, 65mm and 105mm
- Accessories are universal across both Marshall-Tufflex wire basket systems



EZ: Electro-Zinc

Standard finish





Useful area

Base width	35mm Height		65mm	Height	105mm Height	
	in²	cm²	in²	cm²	in²	cm²
60	-	-	3.57	23	-	-
100	4.18	27	7.29	47	-	-
150	6.51	42	11.63	75	-	-
200	8.99	58	15.81	102	29.92	193
300	13.80	89	24.34	157	46.04	297
400	-	-	32.86	212	62.16	401
500	-	-	41.39	267	78.28	505
600	-	-	49.91	322	94.40	609

35mm Height



Standard Wire Basket 35mm Height

	<u>~</u>					
code	description	width ₩	height ↓ <u>↓</u> J	length	pack	
MT2/3616	Wire Basket 100x35mm	100	35	3000	8x3m	Ų
MT2/3617	Wire Basket 150x35mm	150	35	3000	6x3m	Ļ
MT2/3618	Wire Basket 200x35mm	200	35	3000	4x3m	<u> </u>
MT2/3619	Wire Basket 300x35mm	300	35	3000	6x3m	<u> </u>

65mm Height



Standard Wire Basket 65mm Height

	dimensions mm						
		width	height	length			
code	description		<u> </u>		pack		
MT2/3621	Wire Basket 60x65mm	60	65	3000	8x3m	Ų	
MT2/3622	Wire Basket 100x65mm	100	65	3000	8x3m	ب	
MT2/3623	Wire Basket 150x65mm	150	65	3000	6x3m	Ļ	
MT2/3624	Wire Basket 200x65mm	200	65	3000	6x3m	<u> </u>	
MT2/3625	Wire Basket 300x65mm	300	65	3000	6x3m	ļJ	
MT2/4407	Wire Basket 400x65mm	400	65	3000	2x3m	Ĺ	
MT2/4409	Wire Basket 500x65mm	500	65	3000	2x3m	Ĺ	
MT2/3626	Wire Basket 600x65mm	600	65	3000	2x3m	Ĺ	



Standard Wire Basket 105mm Height

		width	length		
code	description	\rightleftharpoons	m	pack	
MT2/4953	Wire Basket 200x105mm	200	3000	4x3m	<u> </u>
MT2/4959	Wire Basket 300x105mm	300	3000	4x3m	Ĺ
MT2/4960	Wire Basket 400x105mm	400	3000	2x3m	<u> </u>
MT2/4961	Wire Basket 500x105mm	500	3000	2x3m	Ĺ
MT2/6043	Wire Basket 600x105mm	600	3000	2x3m	Ĺ



- Cover eliminates dirt and dust build-up on cable
- Provides physical protection for cables
- Our cover is suitable for Standard Wire Basket and Fast-Coupling Wire Basket
- Available in Galvanised Steel and Hot Dipped Galvanised Steel finishes only
- To mount the cover no accessories are needed fixed by pressure





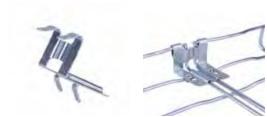


Standard Wire Basket and Fast-Coupling Wire Basket Cover

Standard Wire	e Basket and Fast-Coupling Wire	Basket Cover			
		dimens	ions mm		
code	description	width	length	weight (kg)	pack
MT2/1312	Cover 100mm	102	3000	0.55	8x3m
MT2/1313	Cover 150mm	152	3000	0.76	8x3m
MT2/1314	Cover 200mm	202	3000	0.98	8x3m
MT2/1316	Cover 300mm	302	3000	1.55	8x3m
MT2/1317	Cover 400mm	402	2000	2.19	6x2m
MT2/1318	Cover 500mm	502	2000	3.11	4x2m
MT2/1319	Cover 600mm	602	2000	3.95	4x2m

Fixing accessories

All fixing accessories are universal across our Standard and Fast-Coupling Wire Basket systems.





code	pack
MT2/7271	50



Fast Fix Clip on Coupler - 65mm and 105mm

code		pack
MT2/6217		200





Basket Connector Bolt

code	pack
MT2/4364	400





Basket Connector Bracket

code	pack
MT2/4919	100





Nut and Bolt

code	pack
MT2/4362	100



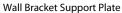


Ceiling Support Plate

code	pack
MT2/2064	50

Please note these are sold in singles; two are needed for fittings as per the image. Nut and bolt are not supplied.





wan bracket support rate	
code	pack
MT2/0355	10





Conduit Feed Plate

code	pack
MT2/0356	8





Universal Box Plate

code	description	pack
MT2/0358	Large universal box plate	4
MT2/0359	Small universal box plate	8





20

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t			155
			1
	1		4



MT2/0260
code
side Support Clip osmini

Cable Drop Out Plate			
code	pack		
MT2/6451	1		





Bend Connector Bolt	
code	pack
MT2/5059	1

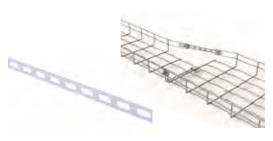
Side Support Clip	
code	pack
MT2/5724	1





Floor Bracket	
code	pack
MT2/5590	1

Lighting Attachment Plate	
code	pack
MT2/5906	1





Multi-union Joint	
code	pack
MT2/0357	1

Cutting Tool	
code	pack
MT2/5066	1





Spray Paint 98% Zinc	
code	paci
MT2/7224	

Clip to Secure Basket to Strut	
code	pack
MT2/10284	100

Fixing accessories







Variable Support Bracket	
code	pack
MT2/6477	20

MT2/3397	50x1m
code	pack
M8 Threaded Rod	





M8 Nut	
code	pack
MT2/0338	100

Earth Bonding Connector	
code	pack
MT2/6797	10





Divider Fillet					
code	description	pack			
MT2/3476	35mm	10 x 3m			
MT2/2066	60mm	10 x 3m			
MT2/3478	100mm	10 x 3m			

Securing Plate	
code	pack
MT2/0337	100





Fast Fix Wall Bracket					
code	description	pack			
MT2/7230	Fast fix wall bracket 100mm	1			
MT2/7231	Fast fix wall bracket 150mm	1			
MT2/7232	Fast fix wall bracket 200mm	1			
MT2/7233	Fast fix wall bracket 300mm	1			
MT2/7234	Fast fix wall bracket 400mm	1			

MT2/5906	1
code	pack
Lighting Attachment Plate	



Fast Fix Ceiling Bracket

code	description	pack
MT2/7235	Fast fix ceiling bracket 100mm	1
MT2/7236	Fast fix ceiling bracket 150mm	1
MT2/7237	Fast fix ceiling bracket 200mm	1
MT2/7238	Fast fix ceiling bracket 300mm	1



Fast Fix Suspension Frame

code	description	pack
MT2/3630	Fast fix suspension frame 100mm	1
MT2/1073	Fast fix suspension frame 150mm	1
MT2/1074	Fast fix suspension frame 200mm	1
MT2/1076	Fast fix suspension frame 300mm	1
MT2/3629	Fast fix suspension frame 400mm	1
MT2/1077	Fast fix suspension frame 500mm	1
MT2/5941	Fast fix suspension frame 600mm	1



Su	p	oor	t٤	tr	ut	Le	g

code	leg height	pack
MT2/5602	142mm	1



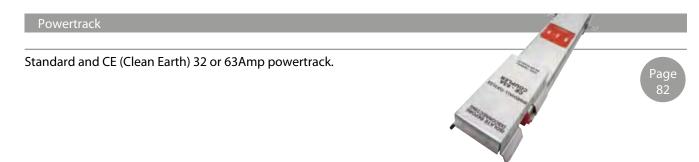


Underfloor to desk solutions

Marshall-Tufflex's underfloor to desk solutions incorporate a range of products for the distribution of power and data services from beneath raised access floors and in-screed systems to desks.

A variety of wiring options are available, including the MT32 prefabricated technology that provides seamless connection all the way from the incoming feed to the desktop.

Underfloor to desk solutions provide a sustainable wiring option, offering zero waste systems which can be re-used and re-configured.



Raised floor boxes and grommets

3 and 4 compartment unwired and pre-wired boxes and grommets.



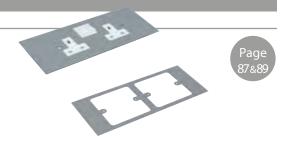
In-screed system

PVC-U or steel ducting with 3 and 4 compartment outlet boxes.



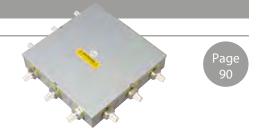
Faceplates and accessories

Accessories and accessory mounting plates for raised floor and in-screed floor outlet boxes.



MT32 Pre-wired underfloor power distribution

A 32Amp, interconnecting, fast-fit and flexible, pre-wired and tested underfloor to floor outlet box power distribution system.



Desk surface units

A range of moulded pre-wired and assembled power units that can be used singly or linked by plug and play cable connectors.



PowerPosts

An efficient way of managing services at island locations.

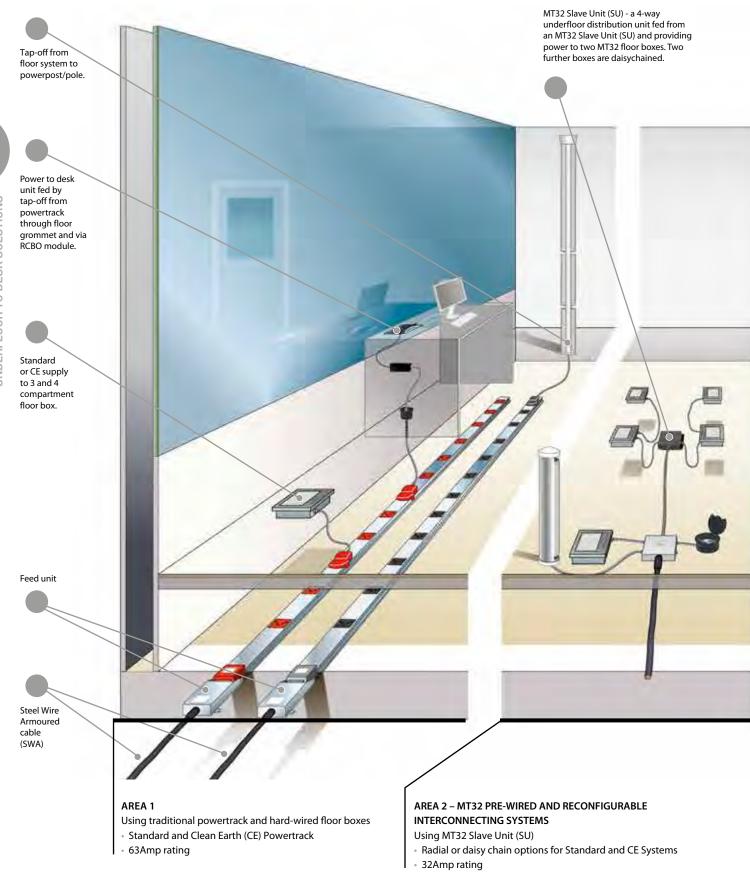


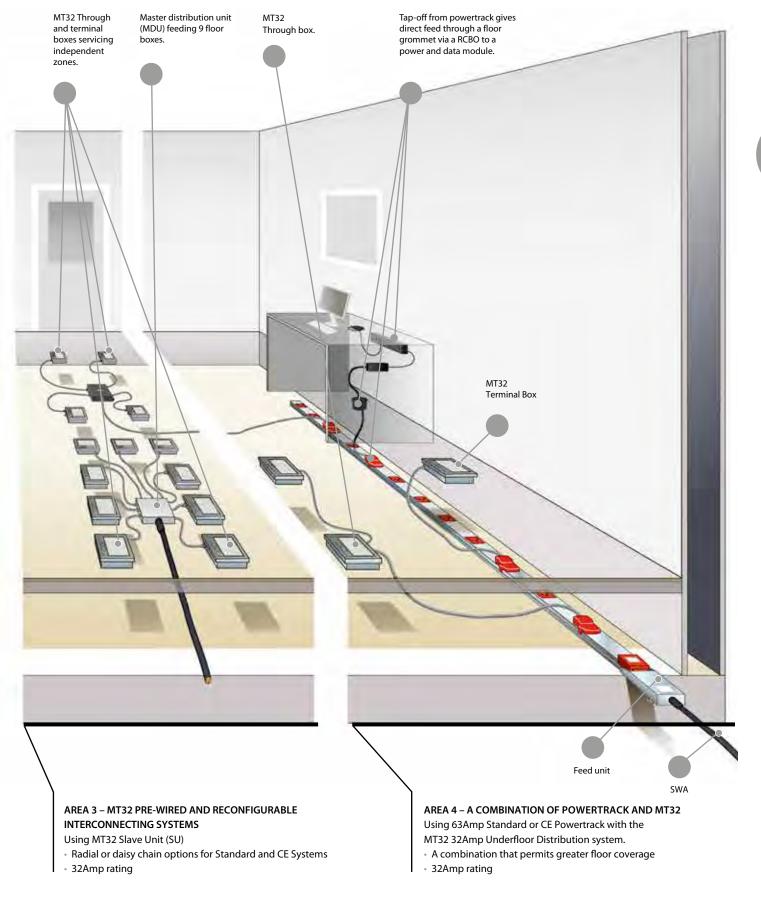
Other pre-wired units

For other pre-wired units made to order to suit your specifications, please contact the Technical Team on +44 (0)1424 856688.



A selection of design layouts incorporating MT32 pre-wired technology and powertrack.

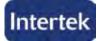




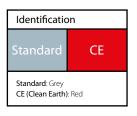
Powertrack is a comprehensive range of underfloor 63Amp powertrack.

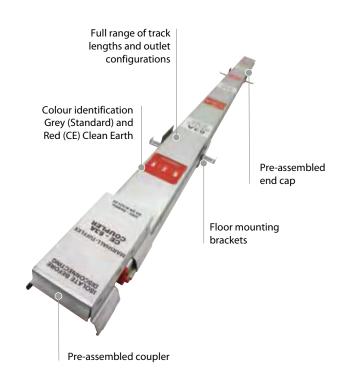
Product information

- Each length of track comes complete with pre-assembled coupler, end cap and floor mounting brackets.
- Maximum 63Amp rating
- Tap-offs are key and colour coded for Standard and CE (Clean Earth)
- Tap-offs are 32Amp rated or fused at 13Amp
- · Adhesive dust covers protect outlets
- Compatible with MT32 pre-wired floor boxes



Powertrack and fittings are independently tested by Intertek





To calculate powertrack lengths required for different floor layouts refer to table on opposite page.

Owertrack Standard



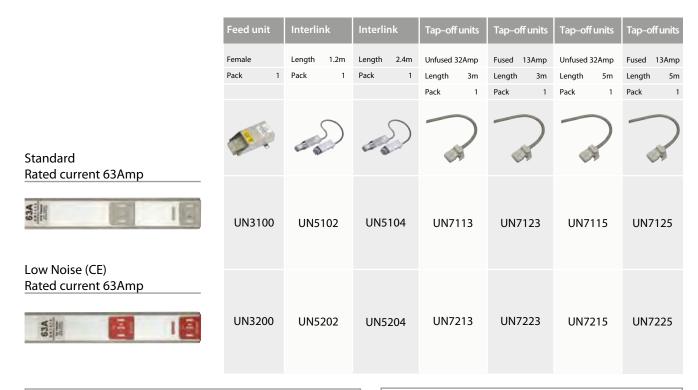
code	length	Number of outlets	pitch (mm)	pack
UN1112	1.2m	4	300	2
UN1118	1.8m	6	300	2
UN1114	2.4m	8	300	2
UN1116	3.6m	12	300	2

Powertrack



code	length	Number of outlets	pitch (mm)	pack
UN1212	1.2m	4	300	2
UN1218	1.8m	6	300	2
UN1214	2.4m	8	300	2
UN1216	3.6m	12	300	2





Other configurations of tap-off units including fuse options are available on request.

All tap-off units comply with 17th Edition Wiring Regulations Section 543 (High Integrity Earthing).

Powertrack - run length component chart

To determine the number and size of track required for a given area, select your total run length (in metres) from the left hand column, then find the correct track combinations along that row.

Total run in metres	Track leng	gths require	ed	
3.6	3.6			
4.2	1.8	2.4		
4.8	2.4	2.4		
5.4	3.6	1.8		
6.0	3.6	2.4		
6.6	2.4	2.4	1.8	
7.2	3.6	3.6		
7.8	3.6	2.4	1.8	
8.4	3.6	3.6	1.2	
9.0	3.6	3.6	1.8	
9.6	3.6	3.6	2.4	
10.2	3.6	3.6	1.8	1.2
10.8	3.6	3.6	3.6	
11.4	3.6	3.6	2.4	1.8
12.0	3.6	3.6	3.6	1.2

Total run in metres	Track lengths required					
12.6	3.6	3.6	3.6	1.8		
13.2	3.6	3.6	3.6	2.4		
13.8	3.6	3.6	3.6	1.8	1.2	
14.4	3.6	3.6	3.6	3.6		
15.0	3.6	3.6	3.6	2.4	1.8	
15.6	3.6	3.6	3.6	3.6	1.2	
16.2	3.6	3.6	3.6	3.6	1.8	
16.8	3.6	3.6	3.6	3.6	2.4	
17.4	3.6	3.6	3.6	3.6	1.8	1.2
18.0	3.6	3.6	3.6	3.6	3.6	
18.6	3.6	3.6	3.6	3.6	2.4	1.8
19.2	3.6	3.6	3.6	3.6	3.6	1.2
19.8	3.6	3.6	3.6	3.6	3.6	1.8
20.4	3.6	3.6	3.6	3.6	3.6	2.4

A high quality range of raised floor boxes to provide power and data to desks within the modern office environment. Available as standard or heavy duty versions, boxes are supplied with dividers for quick and easy configuration as either a 3 or 4 compartment box.



Designed with quality in mind, the standard support plate is 3mm thick and allows for high traffic levels. In the case of very heavy traffic a robust steel sub-frame can be used to support the lid. The sub-frame doesn't restrict space for wiring and accessories and also allows for fine adjustments to be made to accommodate uneven flooring.



Product information

- · Standard depth 83mm
- Supplied with dividers to create 3 or 4 compartment box
- Two earth fixing points for flexible positioning of sockets
- · 3mm thick medium load plate
- Steel sub-frame option for heavy traffic and fine adjustment to allow for uneven flooring
- Supplied with two snap-in cable retainers/guides
- · Grey trim as standard
- Cut-out within lid for carpet or carpet tiles up to 6mm

- Reversible lid
- Supplied with metal screws to attach trim to box for a secure fix
- Fixings are pre-punched for quick and easy installation
- · Barrel lock option available for extra security
- RCD option
- Self closing lid for extra safety and security
- Pre-wired option available with MT32 Connectors
- Heavy duty steel galvanized conduit (BS EN 61386-23:2004+A11:2010)

Other options

- Steel lid & trim option for even greater strength and durability
- Lid available separately
- Replacement cable flap available separately
- Replacement screw pack available separately



3 compartment standard floor box (terminal) 357 x 257 x 83mm

code	description	pack
UM1010	1 x 2 gang Std	1
UM1020	2 x 2 gang Std	1
UM1030	3 x 2 gang Std	1
UM1110	1 x 2 gang CE	1
UM1120	2 x 2 gang CE	1
UM1130	3 x 2 gang CE	1



3 Compartment standard floor box (through) 357 x 257 x 83mm

code	description	pack
UM5210	1 x 2 gang Std	1
UM5220	2 x 2 gang Std	1
UM5230	3 x 2 gang Std	1
UM5211	1 x 2 gang CE	1
UM5221	2 x 2 gang CE	1
UM5231	3 x 2 gang CE	1



4 compartment standard floor box (terminal) 357 x 257 x 83mm

code	description	pack
UM5010	1 x 2 gang Std	1
UM5020	2 x 2 gang Std	1
UM5030	3 x 2 gang Std	1
UM5110	1 x 2 gang CE	1
UM5120	2 x 2 gang CE	1
UM5130	3 x 2 gang CE	1



4 Compartment standard floor box (through) 357 x 257 x 83mm

(through) 357 x 257 x 83mm		
code	description	pack
UM5610	1 x 2 gang Std	1
UM5620	2 x 2 gang Std	1
UM5630	3 x 2 gang Std	1
UM5611	1 x 2 gang CE	1
UM5621	2 x 2 gang CE	1
UM5631	3 x 2 gang CE	1



Tap-off (Standard)

• To MT32 connector

• 10 10113	z connecto	וע	
code	length	rating	pack
UN8113	3m	32Amp unfused	1
UN8115	5m	32Amp unfused	1
UN8123	3m	13Amp fused	1
UN8125	5m	13Amp fused	1



Tap-off (Clean Earth)
• To MT32 connector

		•	
code	length	rating	pack
UN8213	3m	32Amp unfused	1
UN8215	5m	32Amp unfused	1
UN8223	3m	13Amp fused	1
UN8225	5m	13Amp fused	1

MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housings. For further information please contact our Technical Team on +44 (0)1424 856688.







Empty	floor	pox

code	description	pack
UM1000	Plastic lid & trim	1
UM1500	Steel lid & trim	1

Sub-frame assembly	
code	pac
UMSF1	

Lock kit	
code	pack
UMLK1	1







Raised floor lid assembly

naisea noor na assembly		
code	description	pack
UMLD1	Plastic	1
UMLD3	Steel	1

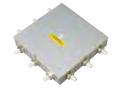
pack
1

Replacement cable flaps packcodepackUMCB11





10001000055111111		
code	description	pack
UM6100	4 way Std	1
UM6101	4 way CE	1



Master distribution unit (MDU) 32Amp rating 260 x 260 x 55mm

Tuting 200 X 200 X 3311111			
code	description	pacl	
UM6200	9 way Std	1	
UM6201	9 way CE	1	



Floor grommet

code	description	pac
UTG1BK	without foam insert	
UTG1GY	without foam insert	





code	description	pack
UTG2BK	with foam insert	1
UTG2GY	with foam insert	1



Floor power grommet

description	pack
with foam insert	1
with foam insert	1
	with foam insert





Accessory plates



13Amp 2 gang DP/TE switched socket

JVVICCIIC		
code	description	pack
UP651	3 comp	1
UP751	4 comp	1



13Amp 2 gang DP/TE switched socket clean earth

code	description	pack
UP653	3 comp	1
UP753	4 comp	1



Double plate with 2 x 13Amp 2 gang switched socket

Jochec		
code	description	pack
UP751D	4 comp	1
UP753D	4 comp CE	1



Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

accessory (Mis.s x oo.siiiii		
code	description	pack
UP633	3 comp	1



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

,	(
code	description	pack
UP632	3 comp	1



Plate to accept 1 x 1 gang accessory

code	description	pack
UP631	3 comp	1



Plate to accept 1 x 1 gang

accessory		
code	description	pac
UP731	4 comp	



3 compartment = 185 x 95mm 4 compartment = 185 x 71mm

Plate material

Plates are manufactured from plain galvanised steel to match floor boxes.



Plate to accept 2 x 1 gang

accessory (M3.3 x 00.311111)		
code	description	pack
UP733*	4 comp	1

^{*}Accessory overlaps adjacent plates



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

accessory (IVID.D X 120.DITITI)		
code	description	pack
UP732*	4 comp	1

*Accessory overlaps adjacent plates



13Amp 2 gang RCD unswitched socket

code	description	pack
UP660	3 comp Std	1
UP663	3 comp CE	1



Data wave plate 4 x RJ45

code	description	pack
UP617	3 comp	1



Data wave plate 2 x RJ45		
code	description	pack
IIP717	4 comp	1



Blank plate

Dialik plate		
code	description	pack
UP621	3 comp	1
UP721	4 comp	1



Euro plate 2 gang

code	description	pack
UP615	3 comp	1

*Adaptor plate required

Note: Adaptor plates are not supplied by Marshall-Tufflex



Data/voice plate 6 x RJ45

p		
code	description	pacl
UP612	3 comp	
UP712	4 comp	



Data/voice plate 4 x KJ45		
code	description	pack
UP610	3 comp	1
UP710	4 comp	1



It is advisable to use MTOP plates for conversion to a range of continental sockets. Please refer to page 234 for more information.

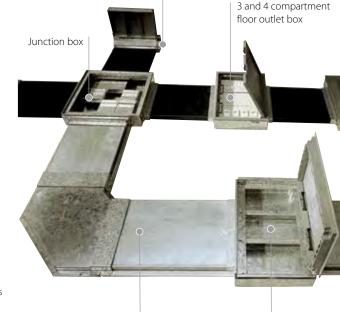




A range of floor outlet boxes, fittings and plates in galvanised steel, with choice of PVC-U or steel ducting

Product information

- 3 and 4 compartments
- (boxes come with extra divider to make 4 compartments)
- · Suitable for 65-85mm screed depth
- · Boxes for deeper floor screed available on request
- Box tray lid suitable for standard 6mm floor finishes
- For advice on box tray lids for non-standard floor finishes please contact our Technical Team
- · Adjustable for box trim height
- Grey moulded carpet trim for floor outlet boxes
- Steel trims with various finishes available
- · Universal junction box with integral, fully-reversible cable segregation



Standard floor box trim

GY

GY: Grey RAL7011 (floor box trim) Other trim finishes: Floor boxes can be provided with a variety of trim finishes such as brass, stainless steel and painted colours. For further information please contact the Technical Team on +44 (0)1424 856688.



Vertical bend fitted to segregated flush back box

> Standard boxes suitable for 65 – 85mm screeded depth



Floor outlet box 3 and 4 compartment

3 and 4 compartment		
code	size	pack
USF32	357 x 257mm	1



Floor box lid assembly

code	description	pack
UMLD1	Plastic	1
UMLD3	Steel	1



Universal junction box (excluding adaptors)

(CACIDATING GAUPTOIS)		
code	size	pack
USJ3	269 x 234mm	1



Twin section PVC-U duct (three ducts required per run)

(tinee ducto required per ruit)		
code	size	pack
MTU125	75 x 25mm	8 x 3m



3 Compartment steel duct

code	description	
USFT25	225 x 25mm	1 x 2.5m



Blank end

code	description	pac
USFB1	3 x 20mm KO	
USFB25	3 x 25mm KO	



pack
1



Floor materials

coccco.	
code	pack
USFC1	1



Flat bend (excluding connector)

code	description	pack
USFF1	steel	1
HFP125Bk	(PVC-U	1



Vertical bend (excluding connector)

code	description	pac
USFV1	steel	
HVP125BK	PVC-U	



Steel screeding plate

code	pack
USFSP1	1
Ninte I land in alone of h	الد: ا

Note: Used in place of box lid when screeding





Accessory plates



13Amp 2 gang DP/TE switched socket

SWITCHEU SOCKET		
code	description	pack
UP651	3 comp	1
UP751	4 comp	1



13Amp 2 gang DP/TE switched socket clean earth

cicaii cai tii		
code	description	pack
UP653	3 comp	1
UP753	4 comp	1



Double plate with 2 x 13Amp 2 gang switched socket

socket		
code	description	pack
UP751D	4 comp	1
UP753D	4 comp CE	1



Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

accessory (M3.5 x 60.511111)		
code	description	pack
UP633	3 comp	1



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

accessory (IVI3.5 x 120.3mm)		
code	description	pack
UP632	3 comp	1



Plate to accept 1 x 1 gang accessory

accessory		
code	description	pack
UP631	4 comp	1



Plate to accept 1 x 1 gang accessory

accessory		
code	description	pack
UP731	4 comp	1



3 compartment = 185 x 95mm 4 compartment = 185 x 71mm

Plate material

Plates are manufactured from plain galvanised steel to match floor boxes.



Plate to accept 2 x 1 gang accessory (M3.5 x 60.3mm)

accessory (M3.5 x 60.3mm)		
code	description	pacl
UP733*	4 comp	,

^{*}Accessory overlaps adjacent plates



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

accessory (M3.5 x 120.3mm)		
code	description	pack
UP732*	4 comp	1

*Accessory overlaps adjacent plates



13Amp 2 gang RCD unswitched socket

description	pack
3 comp Std	1
3 comp CE	1
	3 comp Std



Blank plate

Diaint place		
code	description	pack
UP621	3 comp	1
UP721	4 comp	1



Euro plate 2 gang

	· · · J · J	
code	description	pack
UP615	3 comp	1

*Adaptor plate required

Note: Adaptor plates are not supplied by Marshall-Tufflex





Data/voice plate 6 x RJ45

Data, Toice place o ATI IS		
code	description	pack
UP612	3 comp	1
UP712	4 comp	1



Data/voice plate 4 x RJ45

code	description	pack
UP610	3 comp	1
UP710	4 comp	1



Data wave plate 4 x RJ45

Data wave plate 4 x 1043			
code	description	pack	
UP617	3 comp	1	



Data wave plate 2 x RJ45

code	description	pack
UP717	4 comp	1

Components

MT32 pre-wired underfloor distribution is a prefabricated wiring system that incorporates 32Amp plug and play connector technology. The system provides a range of pre-wired, pre-tested products which can be used alone or in conjunction with powertrack, desk modules and other pre-wired systems to accommodate various underfloor layout options.



Product information

- · Distribution from powertrack supply
- 32Amp power distribution
- Standard and CE systems
- · Greater scope in layout design
- Wider range of floor distribution
- Economical and practical for large or high density floor areas
- Designs, dimensions and cable capacities to meet the latest BS EN ISO standards and accommodate all building designs and construction parameters
- · Accessory plates manufactured from galvanised steel to match floor boxes

Plate dimensions

- 3 compartment 185 x 95mm
- 4 compartment 185 x 71mm



MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housing. For further information please contact our Technical Team on +44 (0)1424 856688.



Slave unit (SU) 32Amp rating 100 x 100 x 55mm

code	description	pack
UM6100	4 way Std	1
UM6101	4 way CE	1

MT32 Four compartment floor boxes	
Terminal: Refer to page 85	



Floor box – through 3 compartment 357 x 257 x 83mm

code	description	pack
UM5210	1 x 2 gang Std	1
UM5220	2 x 2 gang Std	1
UM5230	3 x 2 gang Std	1
UM5211	1 x 2 gang CE	1
UM5221	2 x 2 gang CE	1
UM5231	3 x 2 gang CE	1



Floor box – terminal 3 compartment 357 x 257 x 83mm

code	description	pack
UM1010	1 x 2 gang Std	1
UM1020	2 x 2 gang Std	1
UM1030	3 x 2 gang Std	1
UM1110	1 x 2 gang CE	1
UM1120	2 x 2 gang CE	1
UM1130	3 x 2 gang CE	1



Interconnecting conduit assembly To MDU, SU, FBDU and floor boxes

code	length	description	pack
UC3353	3m	Std	1
UC3355	5m	Std	1
UC4453	3m	CE	1
UC4455	5m	CE	1



*Male & female adaptors 220mm tail - fits 20mm knockout

code	description	pack
UA7234	3 pole (male)	1
UA7244	4 pole (male)	1
UA7134	3 pole (female)	1
UA7144	4 pole (female)	1



Master distribution unit (MDU) 32Amp rating 260 x 260 x 55mm

code	description	pack
UM6200	9 way Std	1
UM6201	9 way CE	1



^{*}For adapting additional equipment and floor boxes to modular system.



13Amp 2 gang DP/TE switched socket

JWITCHICA JOCKET			
code	description	pack	
UP651	3 comp	1	
UP751	4 comp	1	



13Amp 2 gang DP/TE switched socket clean earth

c.ca c		
code	description	pack
UP653	3 comp	1
UP753	4 comp	1



Plate to accept 2 x 1 gang

accessory (M3.5 x 60.3mm)			
description	pack		
3 comp	1		
	description		



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

description	pack
3 comp	1



Plate to accept 1 x 1 gang accessory

4000000			
code	description	pack	
UP631	3 comp	1	



Plate to accept 1 x 1 gang

code	description	nack
	description	pack
UP731	4 comp	1



Plate to accept 2 x 1 gang

accessory (M3.5 x 60.3mm)			
code	description	pack	
UP733*	4 comp	1	

^{*}Accessory overlaps adjacent plates



Plate to accept 1 x 2 gang accessory (M3.5 x 120.3mm)

code	description	pack
UP732*	4 comp	1

^{*}Accessory overlaps adjacent plates



13Amp 2 gang RCD unswitched socket

code	description	pack
UP660	3 comp Std	1
UP663	3 comp CE	1



Data wave plate 4 x RJ45

Dutu	wave place 1 x 15	1.5
code	description	pack
UP617	3 comp	1



Data wave plate 2 x RJ45

code	description	pack
UP717	4 comp	1



Blank plate

code	description	pack
UP621	3 comp	1
UP721	4 comp	1



Data/voice plate 6 x RJ45

Data/ voice plate 0 x 1043			
code	description	pack	
UP612	3 comp	1	



Data/ voice plate 4 x 1043		
code	description	pac
UP610	3 comp	1
IIP710	4 comp	1



Luio piate 2 garig			
code	description	pack	
UP615	3 comp	1	

^{*}Adaptor plate required Note: Adaptor plates are not supplied by Marshall-Tufflex



Double plate with 2 x 13Amp 2 gang switched

socket

code	description	pack
UP751D	4 comp	1
UP753D	4 comp CE	1

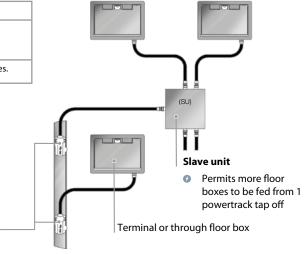
Plate dimensions 3 compartment = 185 x 95mm 4 compartment = 185 x 71mm Plate material Plates are manufactured from plain galvanised steel to match floor boxes.

Suggested Layout

Should powertrack be the preferred method of underfloor power supply, then combining powertrack with MT32's interlinked through floor boxes and/or slave units will provide a far greater reach of floor area than can be achieved using powertrack alone.

Powertrack tap off

- 32Amp tap-off pre-wired to MT32 male connector
- · 3.0m and 5.0m leads, Standard or CE
- · Also 13Amp fused tap-offs



A range of surface mounted power and data modules for use with office furniture.

Product information

- Flip up units flush finish when in use
- Surface units desk mounted
- Desk grommets
- · Fed from wall trunking or floor boxes
- Various switching and fusing options available
- · Individual 3.15Amp fuses
- Master switch option
- RCD and MCB protection available



Various configurations of power and data outlets



Flip-up unit with master switch and individually fused

SUCKELS		
code	description	pack
FDMF002BK	2 gang	1
FDMF007BK	4 gang	1
FDMF008BK	5 gang	1



Flip-up unit with master switch, data outlets and individually fused sockets

code	description	pack
FDMF013BK	2 gang + 1 Cat 5e	. 1
FDMF014BK	3 gang + 2 Cat 5e	1
FDMF015BK	4 gang + 2 Cat 5e	1



Curved surface unit with master switch and individually

rused sockets		
code	description	pack
FDMC003BK	2 gang	1
FDMC005BK	3 gang	1
FDMC009BK	4 gang	1
FDMC011BK	6 gang	1

Please note this product comes with 2 x 13-40mm thick desk clamps



Curved surface unit with master switch, data outlets and individually fused sockets

code	description	pack
FDMC012BK	2 gang + 1 Cat 5	<u> </u>
FDMC013BK	3 gang + 2 Cat 5	<u> </u>
FDMC014BK	4 gang + 2 Cat 5	<u> </u>
FDMC015BK	4 gang + 4 Cat 5	<u> </u>
EDMC016RK	6 gang + 4 Cat 5	a 1



13Amp in-feed power cable Wieland connector

code	length	pack
DM8301	1m	1
DM8302	2m	1
DM8303	3m	1



Desk grommet		
code	diameter	pack
DG1BK	92mm	1



Desk clamp (For use with curved units only)

code	size	pack
DCL1BK	15-30mm	1
DCL2BK	25-30mm	1

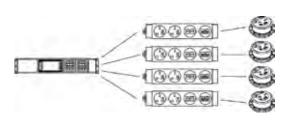


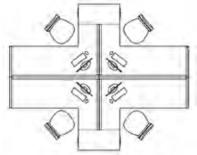
Product information

- High strength, fire retardant polycarbonate moulded modules
- Aluminium RCBO units
- The system can be fed directly from underfloor busbar through a floor grommet to an RCBO unit to then feed single or multiple modules as required
- Can be fed from wall trunking, floor boxes, grommets or powerpoles
- For single use or modules can be interlinked
- In-feed supply either by Wieland GST 18/3 connection or plug socket
- Unswitched individually fused 3.15Amp or 5Amp sockets
- 2 and 4 gang options plus the ability to link modules
- Twin USB points charge up to 5 x faster than your standard PC USB port
- Desk units comply with BS 6396 for Electrical Systems in Office Furniture when powered from a plug socket outlet and with BS 7671 when powered from a power distribution network.
- RJ45 data sockets in Cat 5e, Cat 6 or blank configuration options
- All our sockets are ASTA certified



Our range of power modules and RCBOs can be integrated to deliver a complete system from underfloor to desk.





Power modules





Power module 2G indv fused		
code	description	pack
DM5001	3.15Amp	1
DM5003	5Amp	1

Power module 4G indv fused		
code	description	pack
DM5002	3.15Amp	1
DM5004	5Amp	1





Module 2xpower 2xUSB 2xCat 5e		
DM5030	3.15Amp	1
DM5033	5Amp	1



 Module 2xpower 2xUSB

 2xCat 6
 code
 description
 pack

 DM5031
 3.15Amp
 1

 DM5034
 5Amp
 1



 Module 2xpower 2xUSB

 2xblank
 description
 pack

 DM5032
 3.15Amp
 1

 DM5035
 5Amp
 1



UNDERFLOOR TO DESK SOLUTIONS



RCBO 1xGST18 F & tap-off

STD		
code	length	pack
DM5050	3m	1
DM5051	5m	1



RCBO 1xGST18 F & tap-off

CE		
code	length	pack
DM5052	3m	1
DM5053	5m	1



RCBO 4xGST18 F & tap-off

STD		
code	length	pack
DM5054	3m	1
DM5055	5m	1



RCBO 4xGST18 F & tap-off

CE		
	. –	

CL		
code	length	pack
DM5056	3m	1
DM5057	5m	1



RCBO 1xGST18 F	pack
DM5058	1



 RCBO 4xGST18 F

 code
 pack

 DM5059
 1

Both modules supplied with 20mm knockout for power input







GST18/3 M/F lead		
code	length	pack
DM8502	1m	1
DM8503	1.5m	1
DM8504	3m	1

Desk Module USB

Power and Data Modules with Twin USB Fast Charger

With 5Amp output across two USB ports, our Power and Data Modules can simultaneously charge two devices at speeds comparable to, or faster than, the devices' own chargers.

- Fast charge 2 devices
- 5 Amps combined maximum output
- Up to 91% efficiency
- 5000+ USB insertion connections



The USB ports are designed to withstand the elements of a commercial environment with connectors built to withstanding over 5000 insertions.

This feature allows you to charge your devices faster, with far less power wastage through heat generation, and comply with the latest international standards on the efficiency of power supplies.

For more information on our compact power and data modules turn to page 93.

POWERPOLES AND POWERPOSTS

PowerPoles and PowerPosts are a practical and elegant solution for the management of power, data and communication services to island workstations.





Single or double

Flush accessories

Door acts as

cable tidy

(Series 2 PowerPole shown)

sided versions

PowerPoles are a practical and elegant solution for the management of power, data and communication services to island work stations.

Product information

- · Aluminium body for strength and rigidity
- PowerPoles are suitable for suspended and solid ceiling applications
- Cabling to PowerPoles can be fed from the ceiling, from the floor or both
- Single and double sided options
- Doors available with Series 2
- Series 2 PowerPoles provide option of key operated locks fitted to hinged covers
- Standard 3.6m pole includes ceiling fixing bracket
- 1m fixing bracket available for installations above 3.6m
- · Pole extension kit available to extend up to 5m
- · Can be subdivided and screened between services
- · Flush accessories
- · Can be supplied pre-wired

Standard finish Series 1		
ANWH	WHWH	
ANWH: • Anodised body • White fittings	WHWH: • White body • White fittings	

Standard finish Series 2		
ANWH	WHWH	
ANWH: • Anodised body • Anodised doors • White fittings	WHWH: • White body • White doors • White fittings	





Series 1 PowerPoles are supplied with 6 accessory boxes

Single-sided Series 2 PowerPoles are supplied with 7 accessory boxes and pre-installed dividing fillets

Double-sided Series 2 PowerPoles are supplied with 14 accessory boxes and pre-installed dividing fillets

PowerPole - Series 1 Square Double, sided

Square Double-sided		
code pa	ck	
PP36001ANWH	1	
with 250mm adjustable slide		
PP36002ANWH	1	
5d- 1150		

with 1150mm adjustable slide PP36001WHWH

with 250mm adjustable slide PP36002WHWH

with 1150mm adjustable slide

Note: Series 1 double-sided PowerPoles come complete with 6 accessory boxes

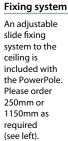
Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish



Dividing fillet Double sided

code	pack
EDF1	8 x 3m
For Series 1 double sided pole	







Extension Kit Double-sided(1400mm) For Series 1 PowerPoles

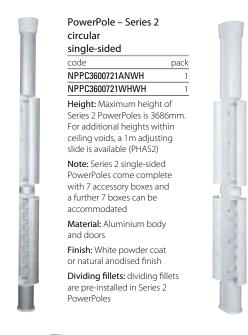
TOT SCHOOL TOWER OICS		
code		pack
PP1400EAN	Anodised	1
PP1400EWH	White	1





PowerPoles Series

Components



PowerPole – Series 2 elliptical double-sided

code	pack
NPPE36001441ANWH	1
NPPE36001441WHWH	1

Height: Maximum height of Series 2 PowerPoles is 3686mm. For additional heights within ceiling voids, a 1m adjusting slide is available (PHAS2)

Note: Series 2 double-sided PowerPoles come complete with 14 accessory boxes and a further 14 boxes can be accommodated

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPoles

*Single-sided extension kit for Series 2 circular PowerPoles

code	pack
NPPC1400EAN	1
*Extends pole up to 5m	

*Double-sided Extension Kit For Series 2 elliptical PowerPoles

code	pack
NPPE1400EAN	1

*Extends pole up to 5m



Door locking assembly Series 2

JCIICJ Z	
code	pack
NPPLA1ANWH	1
NPPLA1WHWH	1

Note: please contact Technical Team for details



Cover Series 1 and 2

code		pack
PL1WH	PowerPole	8 x 3m



Accessory box spacer Series 1 and 2

code	pack
ES1WH	4

For use between accessory boxes



*RCD/MCB housing Series 2

Series 2	
code	pack
FAHC1MWH	1

*Up to 4 modules can be housed.

Note: RCD not supplied by Marshall-Tufflex



1 gang accessory box

i garig accessory box		
code depth pac		pack
ESSB1WH	30mm	20



1 gang adjustable box

EAB1WH	32 – 40mm	10	
code depth pac			
i garig adjustable box			

EAB1 is fully adjustable to 47mm. Please see page 311 for more details.



Wired 13Amp 1 gang vertical mount switched socket

code	depth	pack
ESS11WH	30mm	1



Vertical mounted flush data module 2 x R I45

ciara ilioai		
code	size	pack
EM526WH	37 x 22mm	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits. BS7671:2008. For data/voice use only.



1 gang screened	accessory box	DATA
code	depth	pack
ESSB1SWH*	30mm	20
1 gang screened	adjustable box	DATA
code	depth	pack
EAB1SWH*	32 – 40mm	1

*Supplied complete with earth terminal

EAB1S is fully adjustable to 47mm. Please see page 311 for more details.

PowerPosts are a practical and elegant solution for the management of power, data and communication services to island work stations.

Product information

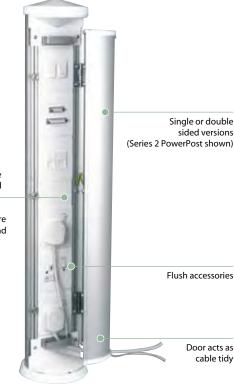
- PowerPosts are suitable for all floor applications
- Single and double sided options
- Doors available with Series 2
- Series 2 provides option of key operated locks fitted to hinged covers
- Series 1 Designed to fit below standard desk height
- Flush accessories
- · Can be supplied pre-wired

Standard finish Series 1		
ANWH	WHWH	
ANWH: • Anodised body • White fittings	WHWH: • White body • White fittings	

Standard finish Series 2	
ANWH	WHWH
ANWH: • Anodised body • Anodised doors • White fittings	WHWH: • White body • White doors • White fittings

Single-sided Series 2 PowerPosts are supplied with 7 accessory boxes and a pre-installed dividing fillet

Double-sided Series 2 PowerPosts are supplied with 14 accessory boxes and a pre-installed dividing fillet





PowerPost - Series 1 Square Double-sided

code	pack
PP685ANWH	1
PP685WHWH	1

Height: Overall height of Series 1 PowerPoles including cap and foot is 692mm

Note: Series 1 double-sided PowerPoles come complete with 6 accessory boxes

Material: Aluminium body with PVC-U covers

Finish: White powder coat or natural anodised finish







Double sided	
code	pack
EDF1	8 x 3m

Specialised PowerPost Solutions

Our Technical Team will work with architects, design teams and contractors to create pre-fabricated solutions designed to save time on site.

PowerPosts can be adapted to be ceiling-mounted or horizontally mounted. See pages 43 and 45 for further details or contact our Technical Team on +44 (0)1424 856688 to discuss your project or request a quotation.







PowerPosts Series 2

Components

Boxes (Series 1 and 2)

PowerPost – Series 2 Circular Single-sided

code	pac
NPPC80671ANWH	
NPPC80671WHWH	

Height: Overall height of Series 2 PowerPosts including cap and foot is 838mm

Note: Series 1 single-sided PowerPosts come complete with 7 accessory boxes

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPosts



PowerPost – Series 2 Elliptical Double-sided

Emptical Double Staca	
code	pack
NPPE811142ANWH	1
NPPE811142WHWH	1

Height: Overall height of Series 2 PowerPosts including cap and foot is 838mm

Note: Series 2 double-sided PowerPosts come complete with 14 accessory boxes

Material: Aluminium body and doors

Finish: White powder coat or natural anodised finish

Dividing fillets: dividing fillets are pre-installed in Series 2 PowerPosts



Door locking assembly Series 2

code	pack
NPPLA1ANWH	1
NPPLA1WHWH	1

Note: please contact Technical Team for details



Cover

Jenes	i uiiu z	
code		pack
PL2WH	PowerPost	1 x 685mm



Accessory box spacer Series 1 and 2

code	pack
ES1WH	4

For use between accessory boxes



*RCD/MCB housing

EAHC1MWH	1
code	pack
TICD/IVICD Housing	

*Up to 4 modules can be housed Note: RCD not supplied by Marshall-Tufflex



r garing accessory box			
code	depth	pack	
ESSB1WH	30mm	20	



1 gang adjustable box

. 99	,	
code	depth	pack
EAB1WH	32 – 40mm	10

EAB1 is fully adjustable to 47mm. Please see page 311 for more information.



Wired 13Amp 1 gang vertical mount switched socket

code	depth	pack
ESS11WH	30mm	1



Vertical mounted flush

uata module 2 x 1045		
code	size	pack
EM526WH	37 x 22mm	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems.

The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits.

BS7671:2008. For data/voice use only.



1 gang screened accessory box		DATA
code	depth	pack
ESSB1SWH*	30mm	20
1 gang screened adjustable box		
1 gang screened	adjustable box	DATA
1 gang screened a	adjustable box depth	
	,	

*Supplied complete with earth terminal

EAB1S is fully adjustable to 47mm. Please see page 311 for more information.



100 | Customer services and technical support

Technical support



Our experienced Technical Team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Parts L and M compliancy.

The team are heavily involved with the design and manufacture of the Marshall-Tufflex product ranges which enables us to deliver high quality innovative products to the market.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs. Our Technical Team are able to help and support the design and manufacture of these custom products where possible.

The team's expertise enables them to provide quotations from as little as a floor plan drawing to create a detailed quotation of our specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.

Contact our Technical Services team on +44 (0)1424 856688 or email technical@marshall-tufflex.com

Award winning customer service

Our Customer Service Team are on hand to advise on stock availability, lead times and delivery schedules.

In 2016 Marshall-Tufflex were proud to be shortlisted in the Best Customer Service and Best Overall Supplier categories at the prestigious Electrical Wholesaler Awards.

Contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing collection from our dedicated points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester: Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG **London**: 101c Blackhorse Lane, London E17 6DJ

- Orders can be collected two hours after order placement from Manchester and London.
- Orders placed by 3.30pm will be available for collection until 5.30pm.
- Orders received by 5pm will be ready for collection from 7am the following day.



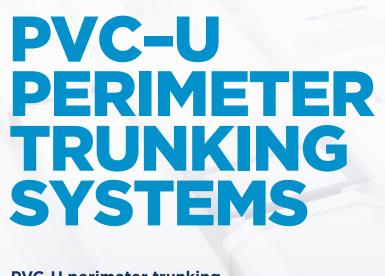
Hastings: 55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

- Orders placed by 12.30pm can be collected next day from our Hastings depot.
- * Subject to stock availability

To arrange a collection, contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Follow us on Twitter @MTufflex



PVC-U perimeter trunking is an ideal solution for the transportation of data, communication and power cabling.

Marshall Tufflex

PVC-U perimeter trunking systems

Polyvinyl chloride unplasticised (PVC-U) is one of the most successful modern synthetic materials. It makes excellent use of scarce resources, is long-lasting and safe in production, use and is widely recycled.

PVC-U cable containment is easy to install, light to handle and very cost-effective. It is an excellent choice of material for the majority of commercial, education and healthcare environments and has been more thoroughly researched than almost any other synthetic material.

With the widest range of any supplier, there will always be a perfect solution with Marshall-Tufflex.

We have PVC-U multi-compartment perimeter trunking in different heights, designs, cable capacities and numbers of compartments to suit all installation requirements.

Choose the UK's number one in cable management.

Standard colour

The standard colour for each Marshall-Tufflex perimeter trunking range is shown within each relevant product information section, although solid white RAL 9003 is our most popular colour option.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special Colours section.

Standard Colours	
WH	СН
WH: White	CH: Charcoal

Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White	WH	9003
	Charcoal	CH	7021



Please note: it is dependent on the product range as to which colour is available as standard.

Special colours and finishes



To help enhance the style of an installation, different variations of solid colour are sometimes required.

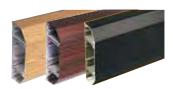
We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colours requirements will need to be specified as a RAL colour.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Woodgrain finishes

For a truly authentic look, we offer a range of woodgrain finishes for trunking and fittings in Light Oak, Mahogany and Ebony that provide interior designers with the scope to offer a more traditional feel. Colours can be indicated by replacing the WH colour code with the specific woodgrain code required.





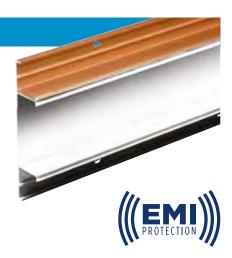
Please note: these colours and finishes are made to order and therefore are subject to set up charges, minimum order quantities and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Copper screening

A special conductive spray coating is applied to the relevant section of the trunking or fittings to screen data cables against EMI interference with no reduction in cable capacity.

Marshall-Tufflex offer a standard range of copper screened products within selected PVC-U perimeter trunking systems which are shown within this catalogue and are held in stock.

If you have a requirement for products to be copper screened that are not part of our standard range, please contact our Technical Team on +44 (0)1424 856688. Please note that non standard products are made to order and therefore are subject to set up charges and a longer lead time.



Bio antimicrobial trunking



Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.



Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

We hold stock of key Odyssey and Sterling Curve trunking components with Bio antimicrobial protection due to its popularity.

The following trunking systems; Compact trunking, Mono Plus 20 trunking, Sterling Profile, Twin Plus trunking and XL trunking are also available in Bio but not available as standard.

Please note: non standard products are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Environmental

- No increase in dioxin emission from Municipal Waste Incineration.
- No phthalates used in manufacture of PVC-U or FR-ARS
- Lead-free formulations are used for mouldings and extrusions.
- No use of cadmium-based stabilisers or pigments.
- Lowest oil content of a commodity plastic.



Recycling and sustainability

- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood
- 100% recyclable material.
- · Long life cycle.
- Excellent weather resistance.
- No painting or powder coating required.



EMI protection

(Electromagnetic interference)

- Some PVC-U systems are available with a coating that provides effective screening against electromagnetic interference with no reduction in cable capacity.
- Steel screening insert option.
- Aluminium screening insert option.



Fire performance

- The fire rating for PVC-U is excellent* and PVC-U has all the characteristics required for Fire Escape Time.
- Highly resistant to ignition.
- Does little to contribute to the spread of fire and is classified to Building Regs: Class 0.
- Has a low rate of smoke production during the early stages of a fire.
- Acts as an effective barrier to flame spread from malfunctioning electrical components within systems.
- Chars and is self-extinguishing.
- Does not produce flaming droplets or burning debris.
- ABS fittings fire rated to UL94V0. *see the independent report at www.beamainstallation.org.uk

PVC-U multi-compartment perimeter trunking is available in different heights, designs, cable capacities and numbers of compartments to suit all installation requirements. Standard PVC-U products are supplied as white. For further information on colour and finish options please refer to page 102 or call our Technical Team on +44 (0)1424 856688.

Note: you may use the rule on the left of this page to check profile sizes.

Mono 10

100 x 50mm

Small trunking with a single cover suitable for dado application and as a feeder trunking.



Compact 1

130 x 50mm

Dado and skirting trunking with one full and one half size compartment.



Compact 2

130 x 50mm

Dado and skirting trunking with one full and one half size compartment.



Series R 130

130 x 65mm

Extra deep compact trunking suitable for dado application and as a feeder trunking.



Mono Plus 20

140 x 50mm

Dado trunking with three compartments and a single cover.



Mono Plus 30

155 x 55mm

Dado trunking with one main compartment and two smaller outer compartments suitable for skirting or worktop application.



Twin165

160 x 65mm

A mid-size dado trunking with one full size compartment and one two-thirds size compartment to accommodate Cat 6 and Cat 6a data cabling.



Sterling Profile 1

167 x 50mm

Dado trunking with three separate compartments and individual covers for each compartment.



Sterling Profile 2

167 x 50mm

Skirting trunking with three separate compartments and individual covers for each compartment.



Sterling Profile 3

167 x 50mm

Dado and skirting trunking with three separate compartments and individual covers for each compartment.



Sterling Curve Profile 1

167 x 50mm

A new dado trunking with three segregated compartments that can be subdivided and screened if required.



Sterling Curve Profile 2

167 x 50mm

A new skirting trunking with three segregated compartments that can be subdivided and screened if required.



Odyssey

180 x 57mm

Curved profile dado trunking with one main compartment and two smaller outer compartments.



Compact 3

181 x 50mm

Dado and skirting trunking with two full size compartments.



Twin Plus 210 x 57mm

Large dado and skirting trunking with two deep compartments incorporating segregation of power and data.



Sterling Profile 4

218 x 50mm

Large dado and skirting trunking with one half size and two full compartments with the option of extending the height.



Sterling Profile 5

218 x 50mm

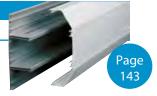
Large dado and skirting trunking with one half size and two full compartments with the option of extending the height.



XL Trunking 201

220 x 65mm

Extra large dado trunking with three deep compartments.



XL Trunking 202

220 x 65mm

Skirting trunking with three deep compartments.



XL Trunking 203

220 x 65mm

Dado and skirting trunking with three deep compartments.



Sterling Profile 11

255 x 50mm

Dado trunking with four full size compartments and the option of extending the height.



Sterling Profile 12

255 x 50mm

Skirting trunking with four full size compartments and the option of extending the height.



Sterling Profile 13

255 x 50mm

Dado and skirting trunking with four full size compartments and the option of extending the height.



Sterling Profile 6

269 x 50mm

Dado and skirting trunking with three full size compartments and the option of extending the height.



XL Trunking 211

308 x 65mm

Dado trunking with four deep compartments.



XL Trunking 212

308 x 65mm

Skirting trunking with four deep compartments.



XL Trunking 213

308 x 65mm

Dado and skirting trunking with four deep compartments.



Sterling Profile and XL Trunking

These trunking ranges can be extended easily by using additional compartments. For more information, contact the Technical Team on +44 (0)1424 856688.

Note: you may use the rule on the left of this page to check profile sizes.

Part M Boxes

DDA compliant boxes for visual impairment

Part M of the UK Building Regulations for Visual Impairment requires that face plates differ in colour from their background. Coloured accessory boxes provide a different colour frame to contrast against standard white accessories and are offered as part of our standard product range in blue (RAL5002) and charcoal (RAL7021). Two ranges are available, one compatible with Odyssey and one compatible with other PVC-U and Aluminium trunking systems.



Odyssey trunking with Part M boxes installed at Old Swinford Hospital School, Stourbridge.



Sterling Profile 1 with charcoal Part M flush plate.

Plates are available in other colours subject to set up charges, minimum order quantities and longer lead times.



1 and 2 gang coloured accessory boxes for Odyssey trunking

ioi odysacy tranking		
code	description	pack
DD1510BU	1 gang – blue	20
DD1510CH	1 gang – charcoal	20
DD1520BU	2 gang – blue	10
DD1520CH	2 gang – charcoal	10





1 and 2 gang accessory boxes with coloured flush plate for PVC-U and Aluminium trunking systems

code	description	pack
ESPM1BU	1 gang - blue plate	1
ESPM1CH	1 gang - charcoal plate	1
ESPM2BU	2 gang - blue plate	1
ESPM2CH	2 gang – charcoal	1





1 and 2 gang data mounting frame for Odyssev trunking

iranic for odyssey tranking		
code	description	pack
DD1560BU	1 gang - blue	20
DD1560CH	1 gang - charcoal	20
DD1570BU	2 gang - blue	10
DD1570CH	2 gang - charcoal	10





1 and 2 gang data mounting frame for Odyssey Bio trunking

code	description	pack
DD1561BU	1 gang - blue	20
DD1561CH	1 gang - charcoal	20
DD1571BU	2 gang - blue	10
DD1571CH	2 gang - charcoal	10



Bio



For more information and a quotation contact our Technical Team on +44 (0)1424 856688

MT32 prefabricated and modular wiring systems

MT32 prefabricated and modular wiring systems are designed to take all the hard work out electrical installations by providing the complete pre-wired, pre-tested, plug and play electrical wiring system.

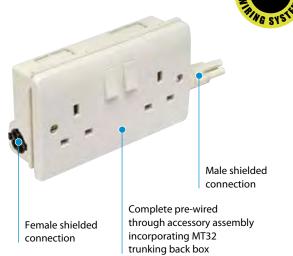
MT32 is a modular plug and play system designed to simplify electrical installation of power within perimeter trunking and underfloor installations. The system provides fast, safe, labour and cost saving installations that comply with BS 8488:2009+A1:2010 for prefabricated wiring systems intended for permanent connection in fixed installation.

The range of pre-wired, pre-tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- · 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system specification that meets the requirement for high integrity earthing
- Suitable for ring and radial circuits
- · Circuit testing only required on completion of final layout
- · Reduced installation time no cutting required on site
- · Reduced health & safety risk

Pre-wired accessories







	-
Extension cable 2.	5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1



Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1



Male and female adaptors 2.5mm²

code	length	pack
AA7211 (male)	220mm	1
AA7212 (female)	220mm	1

For adapting distribution board to modular system Note: to fit 20mm knockout

MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housings.

For further information please contact our Technical Team on +44 (0)1424 856688.



Adaptor cables 2 5mm²

Adaptor cables 2.5mm			
code	length	pack	
AA8901 (male/male)	0.5m	1	
AA8902 (female/female)	0.5m	1	

Required for ring circuit



Terminal block 2.5mm²

code	size	pack
AA6510 (female/male)	2.5mm ²	1



Pre-wired accessory 2.5mm ²				
code	size	pack		
AA6221	2 gang	1		



Product information • 180 x 57mm

· Can be subdivided

Data information

Standard colour

· Suitable for dado application

· Standard bend radius 25mm

• Adjustable data box 32-40mm

WH

· Screened divider and data boxes

Tamper resistant covers and fittings

• Steel divider available to BS EN 50174-2

Flush fitting accessories

Odyssey is a three-compartment trunking

designed with tamper-resistant covers and fittings and flush accessories to enhance the

is easy to clean and prohibits surface clutter.

• 1 main compartment and 2 smaller outer compartments

· Available in antimicrobial Bio option (see page 109)

· Data fittings available for bend radius up to 65mm

WH: White



Trunking assembly (base and 3 covers) size

DD1WH

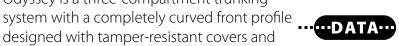
pack

180 x 57mm 1 x 3m





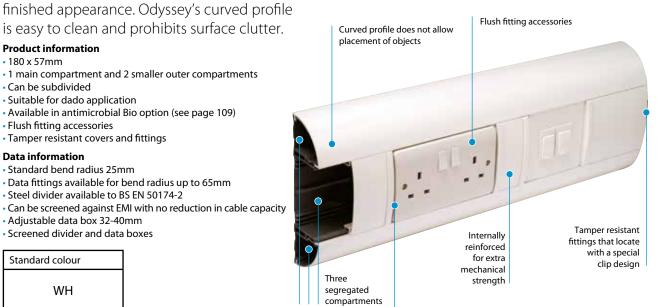
External bend	
code	pack
DD1350WH	1











Part M The Odyssey trunking range includes unique coloured accessory boxes that meet the requirements of Part M (DDA) please refer to page 106.



End cap	
code	pack
DD1230WH	2



pack
1



Internal bend adjustable adjustable DD1330WH 85-95



External bend adjustable			
code	adjustable	pacl	
DD1370WH	85 – 95°	-	



Flat angle up/down code DD1410WH



Flat tee 3 part assembly up/down DD1430WH

Flat tee cover

An option is available to order a flat tee cover only. Please call the Technical Team on +44 (0)1424 856688.

Bio





MMT2 adaptor			
code	size	pack	
DD1740WH	MMT2	1	



Round conduit adaptor

code	size	pack
DD1720WH	20mm	1
DD1725WH	25mm	1



code	pack
DD1580MWH	1

*Up to 4 modules can be accommodated **Note:** RCDs are not supplied by Marshall-Tufflex



1 gang acc	essory box	
code	depth	pack

30mm

20

DD1510WH



2 gang accessory box

code	depth	pack
DD1520WH	30mm	10



a a jasta s.c	acptilion	
code	depth	pack
*DD1540WH	32 – 40mm	10

DD1540 is fully adjustable to 47mm. Please see page 311 for more information.



code	depth	pack
*DD1550WH	32 – 40mm	10

DD1550 is fully adjustable to 47mm. Please see page 311 for more information.



*Accessory box adaptor

Accessory box adaptor	
code	pack
DD1590WH	1 pair

Each pack contains 2 adaptors



1 gang data	DATA
mounting frame	

mounting manne	
code	pack
DD1560WH	20



DATA

	2 gang data	•
mounting frame	mounting frame	

code	pack
DD1570WH	10

*Box adaptors

When installing adjustable boxes DD1540 and DD1550, a DD1590 adaptor should be used at either end of the box.

Where two or more adjustable boxes are being used in line, the spacer included is for use between boxes and a DD1590 adaptor is used at either end.

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106.

Odyssey Bio

Odyssey is available as part of our standard range with Bio antimicrobial protection within the PVC-U material.





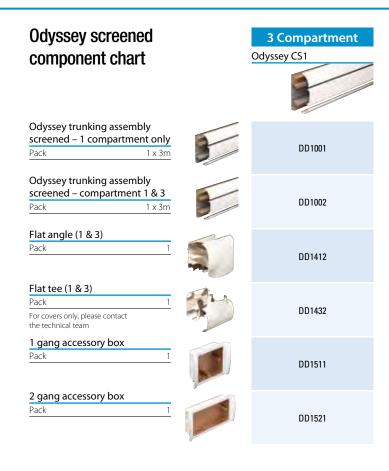
Odyssey		
trunking		
180 x 57mm		

	Trunking	End cap	Coupler	Internal bend	Internal adjustable	External bend	External adjustable	angles (up or	Flat tees (up or	Bio data mounting	Bio data mounting
ĺ	assembly	(1 piece)	(1 piece)	(1 piece)	bend	(1 piece)	bend	down)	down)	frame	frame
				···· DATA	··· DATA	DATA	DATA	DATA	DATA	DATA	··· DATA
	DD1B	DD1233	DD1213	DD1313	DD1333	DD1353	DD1373	DD1413	DD1433	DD1561	DD1571
	Pack 1 x 3m	Pack 2	Pack 1	Pack 1	Pack 1	Pack 1	Pack 1	Pack 1	Pack 1	Pack 1	Pack 1

Odyssey Bio trunking component chart

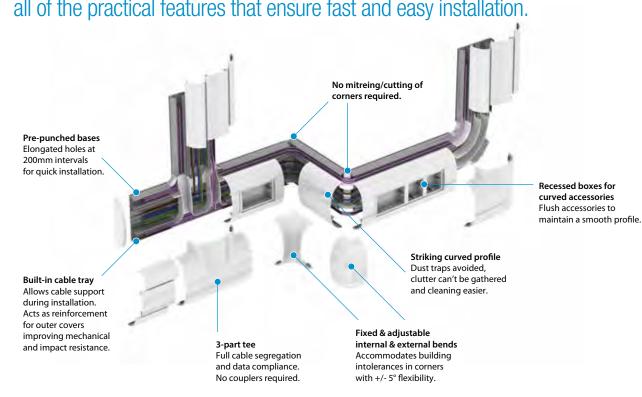






Odyssey Trunking

Odyssey can enhance the look of a project as well as providing all of the practical features that ensure fast and easy installation.



Basic components

Mono 10 is a compact trunking that is perfectly suited for the smaller office or workshop area.



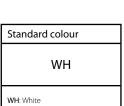
Smallest trunking option that accepts standard power, voice and data accessories

Product information

- 100 x 50mm
- 1 main compartment
- · Can be subdivided
- · Suitable for dado application and as a feeder trunking

Data information

- Standard bend radius 25mm
- Adjustable data box 32-40mm
- · Screened divider and data boxes









Trunking base	
code	pack
ETR10WH	1 v 3m



Main compartment cover		
code	pack	
ETL1WH	8 x 3m	

Single Cover



Coupler	
code	pack
EC10WH	5



End cap	
code	pack
EEC10WH	5



Part M

For box assemblies that meet the requirements

of Part M (DDA) please

Internal bend	
code	pack
EIB10WH	5



External bend		
code	pack	
FXR10WH	5	



Flat angle cover	
code	pack
EFA10WH	1



Flat tee – up/down		
code	pack	
EFT10WH	1	
Fabricated .		



PVC-U PERIMETER TRUNKING SYSTEMS



Divid	ding	tray

code	 	
code		pack
EDF2		8 x 3m



Cable retainer

code	pack
EMCR1	10



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

 $\textbf{Note:} \ \mathsf{RCDs} \ \mathsf{are} \ \mathsf{not} \ \mathsf{supplied} \ \mathsf{by} \ \mathsf{Marshall-Tufflex}$



1 gang	accessory box	
code	depth	р

. 99		-
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

z gang acc	cosony bo	•
code	depth	pack
ESSB2WH	30mm	10



Accessory box spacer

code	size	pack
ES1WH	14mm	4

For use between accessory boxes



1 gang adjustable depth box				
code	depth	pack		
EAB1WH	32 – 40mm	10		



2 gang adjustable depth box

z garig aaj	astable acpti	DOX
code	depth	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate

J. J	_		
code			pack
ESSP1WH			10



2 gang accessory plate

pack
5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106.

Mono Plus 20 is an economical and stylish three-compartment trunking, compact in size and designed to fit within areas that may have trunking height restrictions.





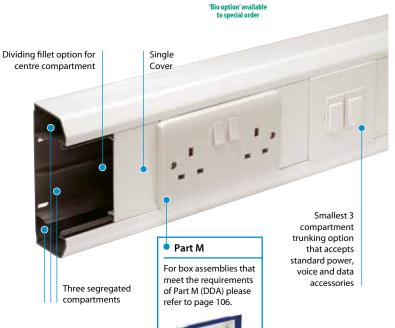


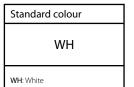
Product information

- 140 x 50mm
- 1 main compartment and 2 smaller outer compartments
- · Can be subdivided
- Suitable for dado application

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- Screened divider and data boxes





Basic components







Trunking base	
ode	pack
MT20WH	4 x 3m

Main compartment cover	
code	pack
ETL1WH	8 x 3m





Coupler	
code	pack
EC20WH	5



End cap	
code	pacl
EEC20WH	



Internal bend	····DATA···
code	pack
EIB20WH	5



External bend	DATA
code	pack
EXB20WH	5



Flat angle – up/down	
code	pack
EFA20WH	1
Fabricated	



Slow bend	····DATA···
code	pack
EFA20SBWH	1
Fabricated	



PVC-U PERIMETER TRUNKING SYSTEMS





Flat tee – up/down	
code	pack
EFT20WH	1
Eabricated	

Flat tee Gusseted	······································
code	pack
EFT20GTWH	1
Eabricated	



Dividing fillet	
code	pack
EDF1	8 x 3m



Main crossover bridge	
code	pacl
EMCB1	



Main cable retainercodepackEMCR110



*RCD/MCB Housing	
code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated **Note:** RCDs are not supplied by Marshall-Tufflex



1 gang accessory box		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10





1 gang adj	ustable depth	n box
code	depth	pack
EAB1WH	32 – 40mm	10



2 gang adj	ustable depth	box
code	depth	pack
EAB2WH	32 – 40mm	5



1 gang accessor	y plate
code	pack
ESSP1WH	10



2 gang accessory plate

code pack
ESSP2WH 5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Mono Plus 30 is an economical and stylish three-compartment compact skirting system, particularly suitable for general office applications.

Single Cover

Part M

For box assemblies that

meet the requirements

of Part M (DDA) please

refer to page 106.



Smallest 3

compartment skirting trunking

option that accepts

standard power,

voice and data

accessories

Product information

- 155 x 55mm
- 1 main compartment and 2 smaller outer compartments
- · Can be subdivided
- Suitable for skirting or worktop application

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-40mm
- · Screened divider and data boxes



Basic components

Trunking (including 2 segregators) pack EMT30WH 4 x 3m



Dividing fillet option for

centre compartment

Main compartment cover		
code	pack	
ETL1WH	8 x 3m	





Coupler	
code	pack
EC30WH	5



End cap	
code	pacl
EEC30LHWH (left hand)	
EEC30RHWH (right hand)	



Three segregated

compartments

Internal bend	DATA
code	pack
EIB30WH	5



External bend	DATA
code	pack
EXB30WH	5



Flat angle – upward	
code	pacl
EFA30UWH	1
Fabricated .	



Flat angle – downwa	rd
code	pack
EFA30DWH	1
Fabricated	



PVC-U PERIMETER TRUNKING SYSTEMS



Flat tee –	upward

code	pack
EFT30ULWH	1
Fabricated	



Flat tee – downward

code	pack
EFT30DLWH	1
Fabricated	



Dividing fillet

code	pack
EDF30	8 x 3m



Main Crossover bi	luge
code	pack
EMCB1	5



Main cable retainer

mann cable retainer	
tode	pack
EMCR1	10



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated Note: RCDs are not supplied by Marshall-Tufflex



1 gang	accessory box	
code	denth	na

i garig acc	cosony box	`
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

_ gag acc		`
code	depth	pack
ESSB2WH	30mm	10





EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

1 gang adjustable depth box			
code	depth	pack	
EAB1WH	32 – 40mm	10	



2 gang adj	ustable depth	box
code	depth	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate		
code	pack	
ESSP1WH	10	



2 gang accessory plate

code	pack
ESSP2WH	5

Compact 1 is a small, fully segregated two compartment trunking system with a chamfered top profile. This trunking is suited to fit within areas where physical outside dimensions are important, for example, to negotiate above or below radiators and window sills.

((EMI))





Product information

- 130 x 50mm
- 1 full and 1 half size compartment
- · For dado installation
- · Can be subdivided

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened against EMI with no reduction in cable capacity
- · Adjustable data box 32-40mm
- · Screened divider and data boxes
- Steel divider available







Basic components







Main compart	ment cover
code	pack
ETL1WH	8 x 3m



Angled cover	
code	pack
ETAC1WH	8 x 3m

ittings



Compact	I	
Couplers		
code	description	pack
ECC1WH	2 piece	5
ECHC1WH	1 piece	5



 End caps LH & RH

 code
 description
 pack

 EECC1LHWH
 2 piece
 5

 EECC1RHWH
 2 piece
 5

 EECHC1LHWH
 1 piece
 5

 EECHC1RHWH
 1 piece
 5



Compact 1			
Internal bend			
code	description	pack	
EIBC1WH	2 piece	5	
EIBHC1WH	1 piece	5	



 Compact 1

 External bend
 second

 code
 description
 pack

 EXBC1WH
 2 piece
 5

 EXBHC1WH
 1 piece
 5



Compact 1	•	ATA
Internal be	nd assembl	у
code	description	pack
ELIBCD1WH	assemblies	1
EIBCD1WH	covers only	1



Compact 1 External be	_	DATA ly
code	description	pack
EL0BCD1WH	assemblies	1



Compact 1
Flat angle upward
code pack
EFAC1UWH 1



Compact 1
flat angle downward
code pack
EFAC1DWH 1

Compact 1 flat tees

Compact 1 flat tees are handed to the left or to the right side. For the product you require, please order the following:

Left upward = EFTC1ULWH Left downward = EFTC1DLWH Right upward = EFTC1URWH

Right downward = EFTC1DRWH

For further advice please call the Technical Team on +44 (0)1424 856688. PVC-U PERIMETER TRUNKING SYSTEMS



Angled mini-trunking adapter

code	size	pack
EATA2WH	MMT2	5

Allows the transfer of cables from Compact 1 to Marshall-Tufflex Mini-Trunking



Angled mini-trunking adapter

EATA4WH	MMT4	5
code	size	pack

Allows the transfer of cables from Compact 1 to Marshall-Tufflex Mini-Trunking



Dividing fillet

code	pack
EDF1	8 x 3m



Steel screening divider

code		pack
ESF1		1
	 -	

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code		pack	
ESF2		5	



Bonding strap

code	J	·	pacl
ESBS1			ī



Main crossover bridge

code	pack
EMCB1	5
Dravidas sagrag	ation of conject

Provides segregation of services crossing from one compartment to another



Angled cable retainer

code	pack
EACR1	10
Providos cablo re	toption in the

Provides cable retention in the upper angled or square compartment.



Main cable retainer

code	pack
EMCR1	10

The recommended cable retainer for all compartments which use the ETL1WH lid.



*RCD/MCB housing

"RCD/MCB housing	
code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 aa	ana	accessory	box
------	-----	-----------	-----

depth	pack
30mm	20
	'



2 gang accessory box

depth	pack
30mm	10
	<u>'</u>



code	depth	pack
EAB1WH	32 – 40mm	10

EAB1 is fully adjustable to 47mm. Please see page 311 for more information.



FAR2WH	32 – 40mm	p =
code	size	pack

EAB2 is fully adjustable to 47mm. Please see page 311 for more information.



plate	
code	pack
ESSP1WH	10



2 gang accessory plate

code pack
ESSP2WH 5

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106.



'Bio option' available to special order

Part M

For box assemblies that

meet the requirements of Part M (DDA) please refer to page 106.

Compact 2 is a small, fully segregated two compartment trunking system with a square top profile. This trunking is suited to fit within areas where physical outside dimensions are important, for example, to negotiate above or below radiators and window sills.

Product information

- 130 x 50mm
- 2 full size compartments
- · For dado and skirting installation
- · Note: where Compact 2 is fitted at skirting level, it is recommended that the larger compartment is installed uppermost.
- · Can be subdivided

Data information

- · Standard bend radius 25mm
- · Data fittings available for bend radius up to 50mm
- Compact 1 and 2 small compartment can be screened against EMI with no reduction in cable capacity
- · Adjustable data box 32-40mm
- · Screened divider and data boxes
- Steel divider available









Base unit	
code	pack
ETB2WH	4 x 3m



Main compart	ment cover
code	pack
FTI 1\M/H	8 v 3m



Separate access to each compartment

Dividing fillet option for

Two separate covers

large compartment

Square cover	
code	pack
ETCC1\A/LI	0 1/ 2 00

Basic components



ECHC2WH

Compact 2



1 piece





	End caps LH	Č
k	code	C
5	EECC2LHWH	2
5	EECC2RHWH	2
_	EECHC2LHWH	1

EECHC2RHWH 1 piece





piece

Compact 2	2		Compact 2	
Internal be	end		External be	nd
code	description	pack	code	description
EIBC2WH	2 piece	5	EXBC2WH	2 piece
EIBHC2WH	1 piece	5	EXBHC2WH	1 piece



Compact 2 Flat angle - upward code pack EFAC2UWH



Compact 2 Flat angle - downward code EFAC2DWH



Compact 2 Internal bend assembly and cover only

asserrisi, a		٠,
code	description	pac
ELIBCD2WH	assemblies	
EIBCD2WH	covers only	



Compact 2 External bend

description **ELOBCD2WH** assemblies

Compact 2 flat tees

Compact 2 flat tees are handed to the left or to the right side. For the product you require, please order the following:

Left upward = EFTC2ULWH Left downward

= EFTC2DLWH Right upward

= EFTC2URWH Right downward

= EFTC2DRWH

For further advice please call the Technical Team on +44 (0)1424 856688.

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Square mini-trunking adapter

code	size	pack
ESTA2WH	MMT2	5

Allows the transfer of cables from Compact 2 to Marshall-Tufflex Mini-Trunking



Square mini-trunking adapter

code	size	pack
ESTA4WH	MMT4	5

Allows the transfer of cables from Compact 2 to Marshall-Tufflex Mini-Trunking



Dividing fillet

code	pack
EDF1	8 x 3m



Steel screening divider

code		pa	ack
ESF1			1

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code		pack
ESF2		5



Bonding strap

code	J	pacl
ESBS1		5



Main crossover bridge

code	pacl
EMCB1	5
Drovidos sparoga	tion of convicos

Provides segregation of services crossing from one compartment



Main cable retainer

man cable retainer	
code	pack
EMCR1	10

The recommended cable retainer for all compartments which use the ETL1WH lid



*RCD/MCB Housing

code			pack
EAHC1M	WH		1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



pack

20



ESSB2WH	30mm	10
code	depth	pack
2 gaily accessory box		



1 gang adjustable --- DATA-depth box

code	depth	pack
EAB1WH	32 – 40mm	10

EAB1 is fully adjustable to 47mm. Please see page 311 for more information.



2 gang adjustable -- TATA-depth box

code	size	pac
EAB2WH	32 – 40mr	n !

EAB2 is fully adjustable to 47mm. Please see page 311 for more information.



1 gang accessory --- DATA--

plate	
code	pack
ESSP1WH	10



2 gang accessory -- DATA-plate FSSP2WH

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106.



'Bio option' available to special order

Part M

For box assemblies that meet the requirements of Part M (DDA) please refer to page 106.

Two separate covers

Dividing fillet option

Separate access to each compartment

Compact 3 is a fully segregated trunking system with two main compartments suited for installations requiring larger cable capacity.

Product information

- 181 x 50mm
- 2 full size covers
- · For dado and skirting installation
- Can be subdivided

Data information

- Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- · Adjustable data box 32-40mm
- Screened divider and data boxes
- Steel divider available



Basic components





Base extension



Base unit	
code	pack
ETR2\N/H	1 v 3 m

Main compar	tment cover
code	pack
FTI 1WH	8 x 3m





Compact 3

Couplei		
code	description	pack
ECC3WH	2 piece	5
FCHC3WH	1 piece	5



Compact 3
End caps LH & RH

Life caps Life in		
code	description	pack
EECC3LHWH	2 piece	5
EECC3RHWH	2 piece	5
EECHC3LHWH	1 piece	5
EECHC3RHWH	1 piece	5



Compact 3 Flat angle – up/down

Flat angle – up/down	
code	pack
EFAC3WH	1



Compact 3 Flat tee – up/dow

EFTC3WH	1
code	pack
Flat tee – up/down	



Compact 3 Internal bend

code	description	pack
EIBC3WH	2 piece	5
EIBHC3WH	1 piece	5



Compact 3 External bend

EXTERNAL DENG		
code	description	pack
EXBC3WH	2 piece	5
EXBHC3WH	1 piece	5



Compact 3 Internal bend assembly and cover only

assembly and cover only			
code description pacl			
ELIBCD3WH assemblies		1	
EIBCD3WH	covers only	1	



...**...**DA

Compact 3 External be	nd assemb	lv
code description pa		_
FLORCD3WH	assemblies	1



Dividing fillet

code	 pack
EDF1	8 x 3m



Steel screening divider

code	pack
ESF1	1
-	

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap

code	pack
ESBS1	5



Main crossover bridge

mann crossore.	290
code	pack
EMCB1	5
Providor rogradati	on of convicos

Provides segregation of services crossing from one compartment to another



Main cable retainer

mann cable retaine	
code	pack
EMCR1	10

The recommended cable retainer for all compartments which use the ETL1WH lid



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

. 55	2000.) 200.	
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



depth box		
code	depth	pack
EAB1WH	32 – 40mm	10



depth box		
code	size	pack
EAB2WH	32 – 40mm	5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



piate	
code	pacl
ESSP1WH	10



 plate

 code
 pack

 ESSP2WH
 5

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106.

Quick reference chart Compact trunking

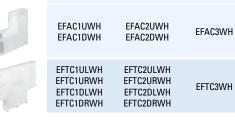
Flat tees – up or down

Left or right handed Upward or downward

Pack

	Trunking	
Compact 1	Compact 2	Compact 3
130 x 50mm	130 x 50mm	181 x 50mm

Compact trunking		130 x 50mm	130 x 50mm	181 x 50mm
Base unit				
Pack 4 x 3m		ETB2WH	ETB2WH	ETB2WH
Base extension				
Pack 4 x 3m		-	-	EBE1WH
Main compartment cover				
Pack 8 x 3m		ETL1WH	ETL1WH	2 x ETL1WH
Angled cover				
Pack 8 x 3m	The same of the sa	ETAC1WH	-	-
Square cover				
<u>Pack</u> 8 x 3m		-	ETSC1WH	-
Couplers		50041411	F000M///	500014/11
Pack 5 1 or 2 piece fittings	jj	ECC1WH or ECHC1WH	ECC2WH or ECHC2WH	ECC3WH or ECHC3WH
End caps	20 3	EECC1LHWH	EECC2LHWH	EECC3LHWH
Pack 5 1 or 2 piece fittings		EECC1RHWH or EECHC1LHWH EECHC1RHWH	EECC2RHWH or EECHC2LHWH EECHC2RHWH	EECC3RHWH or EECHC3LHWH EECHC3RHWH
Internal bends Pack 5		EIBC1WH	EIBC2WH	EIBC3WH
1 or 2 piece fittings	11	or EIBHC1WH	or EIBHC2WH	or EIBHC3WH
Internal bend assembly				
Pack 1		ELIBCD1WH	ELIBCD2WH	ELIBCD3WH
Internal bend – cover only				
Pack 1		EIBCD1WH	EIBCD2WH	EIBCD3WH
External bends		EXBC1WH	EXBC2WH	EXBC3WH
Pack 5 1 or 2 piece fittings		or EXBHC1WH	or EXBHC2WH	or EXBHC3WH
External bend assembly				
Pack 1		ELOBCD1WH	ELOBCD2WH	ELOBCD3WH
Flat angles – up or down				
Pack 1	3	EFAC1UWH EFAC1DWH	EFAC2UWH EFAC2DWH	EFAC3WH





'Bio option' available to special order

Sterling Profile systems 1 to 3 are popular and stylish looking perimeter dado and skirting systems that are easy and cost effective to use. A firm favourite for many years due to its versatility, range of fittings and accessories and suitability for many different cable management installation needs.

Product information

- 167 x 50mm
- 3 segregated compartments
- Outer compartments can be subdivided
- Suitable for dado and skirting application
- · Can be fed from larger trunking systems for increased cable distribution
- · Boxes available to comply with Part M (DDA)
- · Comprehensive range of flush power and data accessories
- · Improved design to base unit to give greater cable capacity
- Moulded fittings with Profile 1 and Profile 2

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- · Compartment can be screened against EMI with no reduction (refer to p103) in cable capacity
- Adjustable data box 32-40mm
- Screened data boxes
- · Steel screening divider available



Colour options: Charcoal solid colour option is available as standard item for selected fittings. Please indicate when ordering by replacing the WH colour code suffix with CH for charcoal.







For boxes that meet the requirements of Part M (DDA) please refer to page 106 of this section.



Trunking Assemblies Sterling Profile 1 is available to order as a trunking assembly using code EP1MWH. Other profiles should be ordered using the relevant base unit and cover codes to make up the

assembly.

WH: White CH: Charcoal







Sterling Profile 2

167 x 50mm

ETL1WH





Separate cover access

to each compartment

Three segregated

compartments

Sterling Profile 3

size 167 x 50mm



EP1MWH	167 x 50mm	1 x 3m	
code	size	pack	





Base unit	
code	pack
FTB1M	4 x 3m



8 x 3m

Angled cover code pack ETAC1WH 8 x 3m

All above covers are also available from stock in charcoal.



Sq	uare	cover

code	pack
ETSC1WH	8 x 3m

Profile 1

Coupler

code





description



Profile 2

Coupler

code



description pack



ECP1MWH ECP2MWH

Profile 1 couplers are also available from stock in charcoal.

Profile 3 Coupler code description ECP3WH ECHP3WH 5 1 piece







Profile 2 End cap code description pack EECP2MLHWH (left) 1 piece 5 EECP2MRHWH (right) 1 piece 5

Profile 3 End cap code description EECP3WH EECHP3WH 1 piece Universal for both LH & RH

Profile 1 end caps are also available from stock in charcoal



Profile 1 Internal be	nd	
code	description	pack
EIBP1MWH	1 piece	5



Profile 2 Internal be	end	
code	description	pack
EIBP2MWH	1 piece	5



Internal bend code description pack EIBP3WH 3 piece EIBHP3WH

Profile 1 internal bends are also available from stock in charcoal.



Profile 1 Internal b	end cove	r ··· DATA
code	pack	
EIBD1WH		1



Profile 2 Internal bend cover DATA code EIBD2WH



Profile 3 Internal bend cover -- DATA code EIBD3WH



Profile 1 External be	nd	
code	description	pack
EXBP1MWH	1 piece	5



Profile 2 External bend code pack EXBP2MWH 1 piece



Profile 3 External bend code description pack EXBP3WH 3 piece EXBHP3WH 1 piece



Profile 1 external bends are also available from stock in charcoal.



Profile 1 Internal bend assembly ELIBD1WH



Profile 2 Internal bend ass	
code	pack
ELIBD2WH	1



Profile 3 Internal bend assembly ELIBD3WH



Profile 1 External bend assembly



Profile 2 External bend assembly code ELOBD2WH



Profile 3 External bend assembly ELOBD3WH



Profile 1 Flat angle up/down cover EFA1MWH



Profile 1 Flat angle up/down complete ... DATA EFA1MBWH Profile 1 flat angles are also available from stock in charcoal.



Profile 2 Flat angle – upward	
code	pack
EFA2UWH	1



Profile 2 Flat angle - downward EFA2DWH



Profile 3 Flat angle – up/down	
code	pack
EFA3WH	1



EFT1MWH	1
code	pack
Flat tee cover	
Profile 1	



Profile 1 Flat tee cover		Profile 1 Flat tee complete	DATA
code	pack	code	pack
EFT1MWH	1	EFT1MBWH	1
Profile 1 tee covers are al	1		



1
pack

Sterling Profile 2 flat tees

Sterling profile flat tees use an angled cover for the upwards cover. For all other variants please contact our Technical Team on +44 (0)1424 856688.

Boxes and plates



Angled mini trunking adaptor MMT2

code	pack
EATA2WH	5



Angled mini trunking adaptor MMT4

FATA4WH	
code	pack



Square mini trunking

adaptor MM12	
code	pack
ESTA2WH	5



Square mini trunking adaptor MMT4

code	pack
ESTA4WH	5



Main crossover bridge

Mail Clossover L	nuge
code	pack
EMCB1	5



Angled cable retainer

, ungica cabic retainer	
code	pack
EACR1	10



Main cable retainer

code	pack
EMCR1	10



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated **Note:** RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gaily accessory box		
code	depth	pack
ESSB2WH	30mm	10



For boxes that meet the requirements of Part M (DDA) please refer to page 106.



ESSB1 and ESSB2 are also available from stock in charcoal.



1 gang adjustable -- TATA-

depth box		
code	depth	pack
FAR1WH	32 – 40mm	10



depth box		
code	size	pack
FΔR2\Λ/H	32 <u>40mm</u>	5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



ESSP1WH	10
code	pack
piate	



2 gang accessory ———DATA—

pack
5

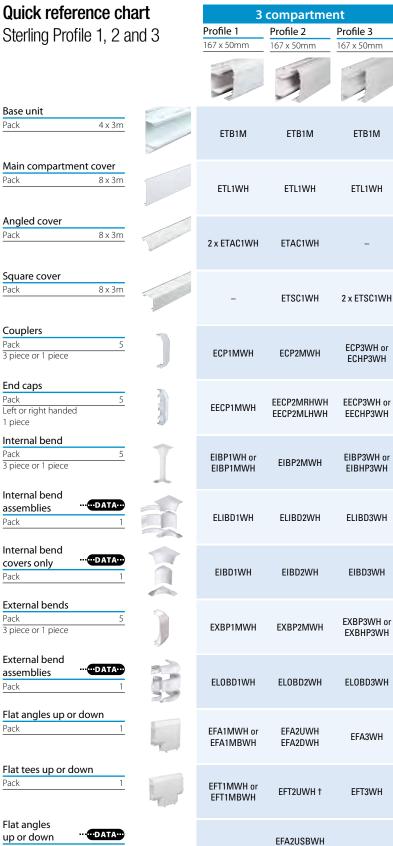


Segregated flush back box 280 x 150mm

steei		
code	depth	pack
ESFBB1	35mm	1



Quick reference chart



† Sterling Profile 2 flat tees

Sterling Profile flat tees use an angled cover for the upwards cover. For all other variants please contact our Technical Team on +44 (0)1424 856688.

Pack

gusseted

EFA2DSBWH

Quick reference chart 3 compartment Sterling Profile 1 Profile 1 CS13 screened 167 x 50mm Base unit 1 x 3m Pack ETB1MCS13 Main compartment cover ETL1WH Unscreened Angled cover 1 x 3m Pack 2 x ETAC1CSWH

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.



WARNING: A CS coating is not suitable for low voltage circuits. BS7671:2008. For data/voice use only.

Screened compartments key to coding

CS13 = screening in compartments 1 and 3

1 gang screened accessory box		DATA	
code	depth	pack	
ESSB1SWH*	30mm	20	
2 gang screened adjustable accessory box		····DATA··	
code	depth	pack	
ESSB2SWH*	30mm	10	

*Supplied complete with earth terminal



Steel screening divider code p

code pag	:k
ESF1	5
Note: optional steel screening	
divider to assist in compliance	
with BS EN 50174-2	



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap	
code	pack
ESBS1	5



Sterling Curve Profile 1 and 2 are stylish curved perimeter dado and skirting systems that are easy and cost effective to use. A new addition to the popular and proven Sterling trunking system, Sterling Curve is a sleek data compliant medium sized trunking system with three segregated compartments. The adaptable system has 1 or 2 curved data compartments designed to stop clutter, avoid dust traps and to make cleaning easy.







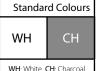


Product information

- 167 x 50mm
- 3 segregated compartments
- · Suitable for dado and skirting application
- Boxes available to comply with Part M (DDA)
- · Comprehensive range of flush power and data accessories
- Single piece moulded fittings
- Flat Tees and Flat Angles have integral bend radius control
- Profile 1 is available in charcoal as standard

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Compartment can be screened against EMI with no reduction in cable capacity (refer to p103)
- Adjustable data box 32-40mm
- Screened data boxes
- Steel screening divider available



Colour options: Charcoal solid colour option is available as standard for selected fittings Please indicate when ordering by replacing the WH colour code suffix with CH for charcoal.



Basic components



Curve Profile 1 trunking assembly

code	size	pack
CEP1MWH	167 x 50mm	1 x 3m



Curve Profile 2

size	
167 x 50mm	

Trunking Assemblies

Sterling Curve Profile 1 is available to order as a trunking assembly using code CEP1MWH. Other profiles should be ordered using the relevant base unit and cover codes to make up the assembly.



Base unit	
code	pacl
ETB1M	4 x 3m



Main compartment cover		
code	pacl	
ETL1WH	8 x 3m	



Curve cover	
code	pack
CETC1WH	8 x 3m

Above covers also available in charcoal



Square cover	
code	pack
ETSC1WH	8 x 3m







Curve Profile 1 Coupler code CECP1MWH



Curve Profile 2 Coupler code CECP2MWH

Profile 1 coupler is also available from stock in charcoal



Curve Profile 1 End cap code CEECP1MWH



Curve Profile 2 End cap right hand code pack CEECP2MRHWH



Curve Profile 2 End cap left hand code pack CEECP2MLHWH

Profile 1 end cap is also available from stock in charcoal



Curve Profile 1 Internal bend CEIBP1MWH



Curve Profile 2 Internal bend pack CEIBP2MWH

Profile 1 internal bend is also available from stock in charcoal



Curve Profile 1 External bend CEXBP1MWH



Curve Profile 2 External bend CEXBP2MWH

Profile 1 external bend is also available from stock in charcoal



Curve Profile 1 Flat angle cover CEFA1MWH

Profile 1 flat angle cover is also



Curve Profile 1 Flat angle complete code **CEFA1MBWH**

Profile 1 flat angle complete





Curve Profile 2 Flat angle up cover CEFA2UMWH



Curve Profile 2 Flat angle up complete CEFA2UMBWH

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Curve Profile 1

CEFT1MWH	
code	pacl
i lat tee cover	



Curve Profile 1 Flat tee complete

code	pack
CEFT1MBWH	1
CEFT1MBWH	

Profile 1 flat tee complete is also available from stock in charcoal



Curve Profile 2

riat tee cover	
code	pack
CEFT2MWH	1



Curve Profile 2 Flat tee complete

CEFT2MBWH	1
code	pack





Steel screening divider

ESF1	5
code	pack
steer screening divider	



Steel screening divider bonding strap

ESF2	5
code	pack
bonding strap	



Bonding strap

Domain g Strap	
code	pack
ESBS1	5



Main crossover bridge

code	pack
EMCB1	5



Angled cable retainer

rangica cabic retainer	
code	pack
EACR1	10



Main cable retainer

Main Cable retainer	
code	pack
FMCR1	10

Boxes and plates







*RCD/MCB	Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated Note: RCDs are not supplied by Marshall-Tufflex

1 gang accessory box			2 gang acc	essory
code	depth	pack	code	dept
ESSB1WH	30mm	20	ESSB2WH	30m

z gang accessory box		
code	depth	pack
ESSB2WH	30mm	10





	1
All controls	9

depth box	ustable	
code	depth	pack
EAB1WH	32 – 40mm	10

depth box	justable — C	АТА
code	size	pack
EAB2WH	32 – 40mm	1 5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



i gang accessory	DATA
plate	
code	pack
ESSP1WH	10



2 gang accessory plate	···DATA···
code	pack
ESSD3/V/H	5



Segregated flush back box 280 x 150mm Steel

code	depth	pack
ESFBB1	35mm	1

Sterling Curve Bio trunking component chart

Sterling Curve Bio

Sterling Curve Profile 1 trunking is available as standard with Bio antimicrobial protection within the PVC-U material.



	Main compartment cover	Curve cover	Coupler	End cap	Internal bend			Flat tee complete
							DATA	DATA
Sterling Curve								
Profile 1	ETL1BI0WH	CETC1BIOWH				CEXBP1MBI0WH		
167 x 50mm	Pack 8 x 3m	Pack 8 x 3m	Pack 5	Pack 5	Pack 5	Pack 5	Pack 1	Pack 1



Sterling Curve screened component chart

Profile 1 CS13 167 x 50mm ETB1MCS13

Main compartment cover

Base unit screened

Pack	
Unscreened	8 x 3



1 x 3m

ΕT	L1	W	ŀ

Curve cover screened

ack	8 x 3m



CETC1CSMWH

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.



WARNING: A CS coating is not suitable for low voltage circuits. BS7671:2008. For data/voice use only.

Screened compartments key to coding

CS13 = screening in compartments 1 and 3

1 gang screened a	ccessory box	DATA
code	depth	pack
ESSB1SWH*	30mm	20
2 gang screened adjustable accessory box		···DATA
code	depth	pack
ESSB2SWH*	30mm	10

^{*}Supplied complete with earth terminal

Quick reference cha	art	2 comp	artment
Sterling Curve		Profile 1	Profile 2
Sterling Gurve		167 x 50mm	167 x 50mm
Base unit			
Pack 4 x 3m		ETB1M	ETB1M
Main compartment cover			
Pack 8 x 3m		ETL1WH	ETL1WH
Curve cover			
Pack 8 x 3m	3	2 xCETC1WH	CETC1WH
Square cover			
Pack 8 x 3m		-	ETSC1WH
Couplers	7		
Pack 5	42.00	CECP1MWH	CECP2MWH
End caps	20		
Pack 5		CEECP1MWH	CEECP2MRHWH CEECP2MLHWH
Internal bend	-		
Pack 5		CEIBP1MWH	CEIBP2MWH
External bends			
Pack 5		CEXBP1MWH	CEXBP2MWH
Flat angle cover			
Pack 1	_	CEFA1MWH	-
Flat angle complete	(E) (E)		
Pack 1	1	CEFA1MBWH	-
Flat angle up cover	_		
Pack 1	-	-	CEFA2UMWH
Flat angle up complete	_		
Pack 1	=	-	CEFA2UMBWH
Flat tee cover	_		
Pack 1		CEFT1MWH	CEFT2MWH
Flat tee complete Pack 1			
rdcn I	1	CEFT1MBWH	CEFT2MBWH
	100		



Sterling Profile systems 4 to 13 are perimeter dado and skirting trunking systems that provide increased cable capacity with large multi compartments that can be subdivided to carry a greater range of services.

Three and four larger

compartments for

extra cable capacity





'Bio option' available to special order

Separate covers for

each compartment

Product information

- Profile 4 and 5 = 218 x 50mm
- Profile 11, 12 and 13 = 255 x 50mm
- Profile 6 = 269 x 50mm
- 3 and 4 large, segregated compartments
- · Can be subdivided
- Suitable for dado and skirting application
- · Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- · Comprehensive range of flush power and data accessories
- · Improved design to base unit to give greater cable capacity and with side wall knockouts

Data information

- Standard bend radius 25mm
- · Data fittings available for bend radius up to 50mm
- · Adjustable data box 32-40mm
- · Screened data boxes

WH: White

· Steel screening divider available













Sterling Profile 4

218 x 50mm

Sterling Profile 5

size 218 x 50mm







Sterling Profile 11

255 x 50mm

Sterling Profile 12

255 x 50mm

Sterling Profile 13

255 x 50mm



ase unit	:



Base extension pack code EBE1WH 4 x 3m



Extendable base

code	pack
EEB1	4 x 3m

code ETB1M pack



Main compartment cover	
code	pack
ETI 1\N/H	8 v 3m



Angled cover code pack ETAC1WH 8 x 3m



Square cover code pack 8 x 3m ETSC1WH



Profile 4 Coupler code pack ECP4WH



Profile 5 Coupler code pack ECP5WH



Profile 6 Coupler code ECP6WH



Profile 11 Coupler code pack *ECP1WH plus *ELC1WH



Profile 12 Coupler code pack *ECP2WH plus *ELC1WH



Profile 13 Coupler code pack *ECP3WH plus *ELC1WH



Profile 4	
End cap	
code	pack
EECP4LHWH	5
EECP4RHWH	5



End cap code pack EECP5LHWH EECP5RHWH

Profile 5

PVC-U PERIMETER TRUNKING SYSTEMS



Profile 6 End cap pack EECP6WH Universal for both LH & RH



Profile 11 End cap code pack *EECP1WH plus *ELEC3WH Universal for both LH & RH



End cap	
code pao	:k
*EECP2LHWH plus *ELEC3WH	5
*EECP2RHWH plus *ELEC3WH	5



Profile 13 End cap	
code	pack
*EECP3WH plus *ELEC3WH	5
Universal for both LH & RH	

*4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler =

LH = Left handECP1WH PLUS ELC1WH.



*4 Compartment fittings

ECP1WH PLUS ELC1WH.

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler =



Profile 4 Internal bend

Profile 11

code

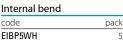
Internal bend

*EIBP1WH plus *ELIB1WH

code EIBP4WH



Profile 5





Profile 6 Internal bend

EIBP6WH



Profile 12 Internal bend

code pack *EIBP2WH plus *ELIB1WH



Profile 13

*EIBP3WH plus *ELIB1WH



Internal bend



Profile 4 Internal bend cover code EIBD4WH



Profile 5 Internal bend cover code EIBD5WH



Profile 6	DATA
Internal bend cover	
code	pack
EIBD6WH	1



Profile 11 DATA Internal bend cover

*ELIBD1WH plus *EIBD10WH 1



Profile 12 DATA Internal bend cover *ELIBD2WH plus *EIBD10WH 1



Profile 13 Internal bend cover *ELIBD3WH plus *EIBD10WH 1



Profile 4 External bend

code	pack
EXBP4WH	5



Profile 5

EXBI OVVII	
EXBP5WH	5
code	pack
external bend	



Profile 6 External bend

code	pack
EXBP6WH	5



Profile 11 External bend

code	oack
*EXBP1WH plus *ELOB1WH	5



Profile 12

External bend	
code	pac
*EXBP2WH plus *ELOB1WH	1 :



Profile 13 External bend

External Deria	
code	oack
*FXBP3WH plus *FLOB1WH	5



Profile 4ontalinternal bend assemblies

code pack
ELIBD4WH 1



Profile 5 ... DATA Internal bend assemblies code pack ELIBD5WH 1



Profile 6 ... DATA Internal bend assemblies code pack ELIBD6WH 1







Profile 13
Internal bend assemblies
code pack
*ELIBD3WH plus *ELIBD10WH 1

*4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. Sterling Profile Coupler = ECP1WH PLUS ELC1WH.



Profile 4 External bend assemblies

code pack
ELOBD4WH 1



Profile 5 External bend asse	mblies
code	pack
ELOBD5WH	1



Profile 6 External bend a	DATA assemblies
code	pack
ELOBD6WH	1







Profile 13 External bend assemblies

code pack
*ELOBD3WH plus *ELOBD10WH1





Profile 4
Flat angle – up
code

EFA4UWH



Profile 4
Flat angle – down
code

EFA4DWH



pack

Profile 5
Flat angle – up
code pack
EFA5UWH 1



 Profile 5

 Flat angle – down

 code
 pack

 EFA5DWH
 1



 Profile 6

 Flat angle – up/down

 code
 pack

 EFA6WH
 1



Profile 11
Flat angle – up/down
code pack
EFA11WH 1



 Profile 12

 Flat angle – up
 pack

 code
 pack

 EFA12UWH
 1



Profile 12
Flat angle – down
code pack
EFA12DWH 1



Profile 13
Flat angle – up/down

code pack

EFA13WH



Profile 6
Flat tee – up/down
code pack
EFT6WH



 Profile 11

 Flat tee – up/down

 code
 pack

 EFT11WH
 1

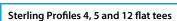


 Profile 13

 Flat tee – up/down

 code
 pack

 EFT13WH
 1



Flat tees for Sterling Profiles 4, 5 and 12 are not evenly handed and Marshall-Tufflex recommends that ordering of flat tees for these profiles is done with the advice of the Technical Team on +44 (0)1424 856688.



Angled mini trunking adaptor MMT2	
code	pack
EATA2WH	5



Angled mini trunking adaptor MMT4

code pack
EATA4WH 5



Square mini trunking adaptor MMT2 code pack ESTA2WH 5



Square mini trunking adaptor MMT4

code pack
ESTA4WH 5



Boxes and plates



Dividing fillet	
code	pack
EDF1	8 x 3m



Dividing tray	
code	pack
EDF2	8 x 3m



Steel screening divider

code	pack
ESF1	5

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider bonding strap

code	pack
ESF2	5



Bonding strap	
code	pack
ESBS1	5



Main crossover bridgecodepackEMCB15



Angled cable retainer code pack EACR1 10



Main cable retainercodepackEMCR110



*RCD/MCB Housing	
code	pack
ΕΔΗΓ1Μ/Λ/Η	1

*Up to 4 modules can be accommodated **Note:** RCDs are not supplied by Marshall-Tufflex



1 gang accessory box			
code	depth	pack	
ESSB1WH	30mm	20	



2 gang accessory box			
code	depth	pack	
ESSB2WH	30mm	10	





1 gang adjustable --- DATA--depth box

ucpili box		
code	depth	pack
EAB1WH	32 – 40mm	10



depth box		
code	size	pack
EAB2WH	32 – 40mm	5



1 gang accessory plate	DATA
code	pack
FSSP1WH	10



2 gang accessory plate	DATA-
code	pacl
ESSP2WH	Į.

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



Quick reference chart

Quick reference chart		3 compartment			4 compartment		
Sterling Profile 4 to 13	3	Profile 4	Profile 5	Profile 6	Profile 11	Profile 12	Profile 13
		218 x 50mm	218 x50mm	269 x 50mm	255 x 50mm	255 x 50mm	255 x 50mm
Pack 4 x 3m		ETB1M	ETB1M	ETB1M	ETB1M	ETB1M	ETB1M
Base extension Pack 4 x 3m		EBE1WH	EBE1WH	2 x EBE1WH	-	-	-
Extendable base Pack 4 x 3m		-	-	-	EEB1	EEB1	EEB1
Main compartment cover Pack 8 x 3m		2 x ETL1WH	2 x ETL1WH	3 x ETL1WH	2 x ETL1WH	2 x ETL1WH	2 x ETL1WH
Angled cover Pack 8 x 3m		ETAC1WH	-	-	2 x ETAC1WH	ETAC1WH	-
Square cover Pack 8 x 3m		-	ETSC1WH	-	-	ETSC1WH	2 x ETSC1WH
Couplers Pack 5		ECP4WH	ECP5WH	ECP6WH	ECP1WH+ ELC1WH	ECP2WH+ ELC1WH	ECP3WH+ ELC1WH
Pack 5 Left or right handed	A Marie Co	EECP4LHWH EECP4RHWH	EECP5LHWH EECP5RHWH	EECP6WH	EECP1WH+ ELEC3WH	EECP2LHWH+ ELEC3WH or EECP2RHWH+ ELEC3WH	EECP3WH+ ELEC3WH
Internal bend Pack 5		EIBP4WH	EIBP5WH	EIBP6WH	EIBP1WH+ ELIB1WH	EIBP2WH+ ELIB1WH	EIBP3WH+ ELIB1WH
Internal bend assembliesDATA-		ELIBD4WH	ELIBD5WH	ELIBD6WH	ELIBD1WH+ ELIBD10WH	ELIBD2WH+ ELIBD10WH	ELIBD3WH+ ELIBD10WH
Internal bend covers only Pack 1		EIBD4WH	EIBD5WH	EIBD6WH	EIBD1WH+ EIBD10WH	EIBD2WH+ EIBD10WH	EIBD3WH+ EIBD10WH
External bends Pack 5		EXBP4WH	EXBP5WH	EXBP6WH	EXBP1WH+ ELOB1WH	EXBP2WH+ EL0B1WH	EXBP3WH+ EL0B1WH
External bend assemblies DATA-		ELOBD4WH	ELOBD5WH	ELOBD6WH	ELOBD1WH+ ELOBD10WH	ELOBD2WH+ ELOBD10WH	ELOBD3WH+ ELOBD10WH
Flat angles up or down Pack 1		EFA4UWH EFA4DWH	EFA5UWH EFA5DWH	EFA6WH	EFA11WH	EFA12UWH EFA12DWH	EFA13WH
Flat tees up or down Pack 1		t	t	EFT6WH	EFT11WH	t	EFT13WH

† Flat tees

For more information on the specification and screening of these Flat Tees, we would advise you to contact our Technical Team on +44 (0)1424 856688.

XL Trunking sizes 201 to 203 comprise a range of deep, large capacity 3 compartment, segregated containment systems. These systems can accommodate integral lighting units.



Dividing fillet option for

centre compartment



'Bio option' available to special order



Product information

- 220 x 65mm
- 1 full and 2 half size compartments
- XL 201 for dado installation only
- 3 deep segregated compartments
- · Can be subdivided
- · Suitable for dado and skirting application
- · Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- · Comprehensive range of flush power and data accessories

Data information

- · Can accommodate Cat 6 data cables*
- Adjustable data box 32-47mm
- Screened data boxes
- · Steel screening divider available









WH: White

Colour options: Optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.

Three deep compartments for extra cable capacity



XL 202

size 220 x 65mm



XL 203	
size	
220 x 65mm	

*Data fittings

Part M

For boxes that meet the

requirements of Part M

page 106 of this section.

(DDA) please refer to

For Cat 6 and 6a fittings please contact the Technical Team on +44 (0)1424 856688

Three separate covers

Trunking profiles

Basic components



ase	unit	

XL 201

220 x 65mm

base unit	
code	pack
ELTB200	4 x 3m



Main compartment cover

code	pack
ETL1WH	8 x 3m



/iligica cover		
code	pack	
ELAC200WH	8 x 3m	



Square cover

square core	
code	pack
ELSC200WH	8 x 3m









 XL 202

 Coupler

 code
 pack

 EC202WH
 5



XL 203

Coupler

code pack

EC203WH 5



XL 201	
End cap	
code	pack
EEC201WH	5
Universal for both LH & RH	



XL 202
End cap

code pacl

EEC202LHWH (Left hand) 5
EEC202RHWH (Right hand) 5



XL 203	
End cap	
code	pack
EEC203WH	5
Universal for both LH & RH	



XL 201 Internal bend code pac EIB201WH



XL 202 Internal bend code pack EIB202WH 55



XL 203	
Internal bend	
code	pack
EIB203WH	5



XL 201	
External bend	
code	pacl
EXB201WH	Į.



XL 202 External bend	
code	pack
EXB202WH	5



XL 203 External bend	
code	pack
EXB203WH	5



code EFA201WH	pack
XL 201 Flat angle – up/down	



XL 202 Flat angle – upward	
code	pack
EFA202UWH	1



XL 202	
Flat angle – downward	
code	pack
EFA202DWH	1



XL 203 Flat angle – up/down	
code	pack
EFA203WH	1

Use with ETAC1WH cover only to avoid reduction of internal capacity $% \left(1\right) =\left(1\right) \left(1\right)$

Boxes and plates



XL 201

Flat tee - up/down pack code EFT201WH



XL 203 Flat tee - up/down

. lactee ap, aoith	
code	pack
EFT203WH	1

Note: For information on XL trunking flat tees see opposite page



Dividing fillet

code	pack
ELDF200	8 x 3m



Steel screening divider

code	pack
ESF200	1
AL A STATE OF THE	

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider

pack
5



Bonding strap

bonaing strap	
code	pack
ESBS1	5



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated Note: RCDs are not supplied by Marshall-Tufflex



1gang accessory box

. 99		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

code	depth	pack
ESSB2WH	30mm	10



For boxes that meet the requirements of Part M (DDA) please refer to





1 gang adjustable -- TATA

acptirbox		
code	depth	pack
EAB1WH	32 – 47mm	10



2 gang adjustable - TATA

EAB2WH	32 – 47mm	5
code	size	pack
depth box		



i gang accessory	DATA
plate	
code	pack
ESSP1WH	10



2 gang accessory plate	DATA
code	pack
ECCD3/A/LI	

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



Quick reference cha	rt	3	Compartme	ent
XL Trunking 201 to 20	าว	XL 201	XL 202	XL 203
AL TRUTKING 201 to 20)3	220 x 65mm	220 x 65mm	220 x 65mm
				3
Base unit				
Pack 4 x 3m		ELTB200	ELTB200	ELTB200
Main compartment cover				
Pack 8 x 3m		ETL1WH	ETL1WH	ETL1WH
Angled cover				
Pack 8 x 3m		2 x ELAC200WH	ELAC200WH	-
Square cover				
Pack 8 x 3m		-	ELSC200WH	2 x ELSC200WH
Couplers				
Pack 5		EC201WH	EC202WH	EC203WH
End caps	30			
Pack 5 left or right hand		EEC201WH	EEC202LHWH EEC202RHWH	EEC203WH
Internal bends				
Pack 5	Ĭ	EIB201WH	EIB202WH	EIB203WH
External bends	7			
Pack 5		EXB201WH	EXB202WH	EXB203WH
Flat angles	_			
Pack 1 upward or downward		EFA201WH	EFA202UWH EFA202DWH	EFA203WH
Flat tees				
Pack 1	9	EFT 201WH	t	EET202/A/LI
† please refer to Flat Tee	No.	EFI ZUIVVĦ	ı	EFT203WH

† XL 202 trunking flat tees

information

Where profiles have one angled cover and one square cover, as with XL 202, it is possible to create a tee by changing the top or bottom cover so that covers to match the profile of the trunking. For example:

- Upward tee select XL 201 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 203 tee remove the square top cover and replace with angled cover.

Trunking profiles

Basic components

XL Trunking sizes 211 to 213 comprises a range of deep, large capacity, 4-compartment, segregated containment systems with facilities for adding further full-size segregated compartments. This system can accommodate integral lighting units.

((EMI))

Dividing fillet option for centre compartments



'Bio option' available to special order



Product information

- 308 x 65mm
- 2 full and 2 half size compartments
- 4 deep segregated compartments
- Can be subdivided
- Suitable for dado and skirting application
- Can be fed from larger trunking systems for increased cable distribution
- Boxes available to comply with Part M (DDA)
- Comprehensive range of flush power and data accessories

Data information

- Can accommodate Cat 6 data cables*
- · Adjustable data box 32-47mm
- Screened data boxes
- Steel screening divider available













XL 212	
size	
308 x 65mm	



Four deep compartments for

extra cable capacity

XL 213 size 308 x 65mm

Part M

For boxes that meet the requirements of Part M (DDA) please refer to page 106 of this section.

Four separate covers



*Data fittings

For Cat 6 and 6a fittings please contact the Technical Team on +44 (0)1424 856688.



Base unit	
code	pack
ELTB200	4 x 3m



Extendable base	
code	pack
ELEB200	4 x 3m



Main compartment covercodepackETL1WH8 x 3m



Angled cover	
code	pack
ELAC200WH	8 x 3m



Square cover	
code	pack
ELSC200WH	8 x 3m



When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts

4-compartment fittings



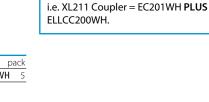
XL 211 - Coupler EC201WH plus ELLCC200WH



XL 212 - Coupler pack EC202WH plus ELLCC200WH



XL 213 – Coupler EC203WH plus ELLCC200WH





XL 212 - End cap XL 213 – End cap pack code pack EEC203WH plus ELLEC200WH 5 EEC202LHWH (Left hand) EEC202RHWH (Right hand) Universal for both LH & RH



XL 211- Internal bend code EIB201WH plus ELLIB200WH 5



EEC201WH plus ELLEC200WH 5

Universal for both LH & RH

XL 211 - End cap

pack

XL 212 – Internal bend EIB202WH plus ELLIB200WH 5



plus ELLEC200WH

XL 213 – Internal bend		
code p	oac	
EIB203WH plus ELLIB200WH		



XL 211 – External bend code pack EXB201WH plus ESLEB200WH 5



XL 212 – External bend code EXB202WH plus ESLEB200WH 5



XL 213 - External bend EXB203WH plus ESLEB200WH 5



XL 211 Flat angle	– up/down
code	pac
EFA211WH	



XL 212 Flat angle – upward EFA212UWH



XL 212 Flat angle – downward code EFA212DWH



XL 213 Flat angle – up/down		
code	pac	
EFA213WH		



Flat tee XL 211 - up/down code EFT211WH



Flat tee XL 213 - up/down code pack EFT213WH

† XL 212 trunking flat tees

Where profiles have one angled cover and one square cover, as with XL 212, it is possible to create a tee by changing the top or bottom cover to match the profile of the trunking. For example:

- Upward tee select XL 211 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 213 tee remove the square top cover and replace with angled cover.





Dividing fillet

code	pack
ELDF200	8 x 3m



Steel screening divider

code	pack
ESF200	1

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider

ESF2	5
code	pack
bonding strap	



Bonding strap

code		pack
ESBS1		5



*RCD/MCB Housing

EAHC1MWH	1
code	pack

*Up to 4 modules can be accommodated Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box

code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box			
code	depth	pack	
ESSB2WH	30mm	10	







deptilibox		
code	depth	pack
EAB1WH	32 – 47mm	10

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



2 gang adjustable --- DATAdepth box code





1 gang accessory — — DATA—

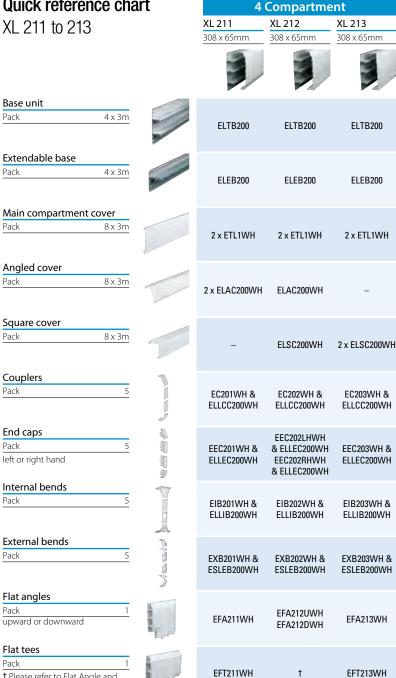
plate	
code	pack
ESSP1WH	10



2 gang accessory plate	DATA
code	pack
FSSP2WH	5



Quick reference chart



Larger systems

Additional 88mm compartments can be $added \ for \ larger \ capacity \ installations.$ For further information about larger systems please call our Technical Team on +44 (0)1424 856688.

4 Compartment fittings

When ordering couplers, end caps or bends for 4-compartment systems, you must request both component parts i.e. XL 211 Coupler = EC201WH PLUS ELLCC200WH.

† XL 212 trunking flat tees

† Please refer to Flat Angle and Flat Tee information

Where profiles have one angled cover and one square cover, as with XL 212, it is possible to create a tee by changing the top or bottom cover to match the profile of the trunking.

For example:

- Upward tee select XL 211 tee remove the angled bottom cover and replace with
- Downward tee select XL 213 tee remove the square top cover and replace with angled cover.

Twin165 trunking is a mid-size, two-compartment system, designed as a compact variation of Twin Plus. Twin 165 offers high capacity for Cat 6 and Cat 6a data cabling for specification in commercial, industrial and educational environments.



Compartment 1

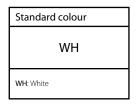
Compartment 2

Product information

- 160 x 65mm
- 2 compartment trunking with 60/40 split
- Separate cover access to each compartment
- Suitable for dado application
- Adjustable bends allow between 85° and 95° to accommodate building tolerances

Data information

- · Standard bend radius 25mm
- Data fittings available for bend radius up to 50mm
- Adjustable data box 32-47mm
- · Steel screening divider



Basic components







Cover small (Comp 1)		
code	pack	
AY1130WH	8 x 3m	



Cover large (Comp 2)		
code	pack	
ETL1WH	8 x 3m	



Two separate covers

Twin165 fittings

Compartment 1 is the smaller compartment.

Part M

For boxes that meet the

requirements of Part M (DDA) please refer to page 106 of this section

Compartment 2 is the larger compartment.

When ordering end caps, flat angles and tees, please take care to ascertain which compartment is to be installed uppermost to ensure you receive the correct fittings.



Coupler		
code	depth	pack
AY1210WH	65mm	1



End Cap LH (Comp 1 top) End Cap RH (Comp 2 top)			
code depth pack			
AY1220WH	65mm	1	
•			



End cap RH (Comp 1 top) End Cap LH (Comp 2 top) depth AY1230WH 65mm



Internal be adjustable	nd	DATA	
code	depth	pack	
AY1240WH	65mm	1	



External bei	DATA	
adjustable		
code	depth	pack
AY1250WH	65mm	n 1



PVC-U PERIMETER TRUNKING SYSTEMS



Flat angle up (comp 1 top) Flat angle down (comp 2 top)

riat angle down (comp z top)			
code	depth	pack	
AY1310WH	65mm	1	



Flat angle down (comp 1 top)

riat arigie up (comp z top)		
code	depth	pack
AY1320WH	65mm	1



Flat tee up (comp 1 top)

riat tee down (comp 2 top)		
code	depth	pack
AY1330WH	65mm	1



Flat tee down (comp 1 top) Flat tee up (comp 2 top)

riat tee up (comp 2 top)			
code	depth	pack	
AY1350WH	65mm	1	



Steel screening divider

0100.00		9	 ~.
code			pack
ESF200			1
	-		

Note: optional steel screening divider to assist in compliance with BS EN 50174-2



Steel screening divider

ESF2	5
code	pack
bonding strap	



Bonding strap

bollaing strup	
code	pack
ESBS1	5



"RCD/MCB Housing	
code	pack
FΔHC1M\MH	1

*Up to 4 modules can be accommodated Note: RCDs are not supplied by Marshall-Tufflex



i garig acci	cooding box	
code	depth	pack
ESSB1WH	30mm	20



z garig acci	cooding box	
code	depth	pack
ESSB2WH	30mm	10



1 gang adjustable -- TATA

depth box		
code	depth	pacl
EAR1\A/LI	22 47mm	10

EAB1 is fully adjustable to 47mm. Please see page 311 for more information.



2 gang adjustable -- TATA--

deptirbox		
code	depth	pack
FAR2WH	32 – 47mm	5

EAB2 is fully adjustable to 47mm. Please see page 311 for more information.



1 gang accessory ---------------

piate	
code	pack
ESSP1WH	10



plate	
code	pac
ESSP2WH	



Segregated flush back box 280 x 150mm

•	ıe	e	ı	

code	depth	pacl
ESFBB1	35mm	1



For boxes that meet the requirements of Part M (DDA) please refer to page 106.



Twin Plus is a large, segregated, two-compartment skirting and dado trunking system that provides high capacity cable containment for most

commercial environments.

2 large segregated compartments

· Separate cover access to each compartment · Suitable for skirting and dado application

Product information

· Can be subdivided

Data information • 50mm bend radius fittings · Adjustable data box 32-47mm Screened divider and data boxes

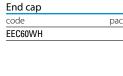
Standard colour

WH: White

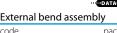
WH

• 210 x 57mm









Capacity reduced by 50%







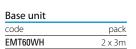


Part M For boxes that meet the requirements of Part M (DDA) please refer to page 106 of this section.

compartments

Basic components







Cover	
code	pack
ETL1WH	8 x 3m



For additional retention use end cap retaining screws $\mathsf{G}1310$ (Pack 40)



Note: 135° versions are also available. For more information call the Technical Team on +44 (0)1424 856688



Internal bend assembly code EIB60WH



External bend assemb	ly
code	pack
ESXB60WH	1



External bend assembly code EXB60WH





	DATA
Internal bend cover	
code	pack

EIBC60WH



External bend cover	
code	pack
ESXBC60WH	1



Flat angle assembly code pack EFA60WH 1



Flat tee assembly	
code	pack
EFT60WH	1



Dividing fillet -	PVC-U
code	pack
LDF1	8 x 3m



Steel screening divider	
code	pack
ESF60	1
Note: optional steel scree	ening
divider to assist in compli	iance

with BS EN 50174-2



ng aiviaer
o
pacl
Ĺ



Bonding strap	
code	pacl
ESBS1	5



*RCD/MCD housing	
code	pac
EAHC1MWH	

*Up to 4 modules can be accommodated **Note:** RCDs are not supplied by Marshall-Tufflex



1 gang ac	cessory bo	ЭX
code	depth	pac
ESSB1WH	30mm	2



2 gang accessory box			
code	depth	pack	
ESSB2WH	30mm	10	





1 gang addepth bo	··· DATA	
code	depth	pack
EAD1\A/II	22 47	10



2 gang adjustable depth box		-DATA
code	depth	pacl
EAB2WH	32 – 47mm	Ē

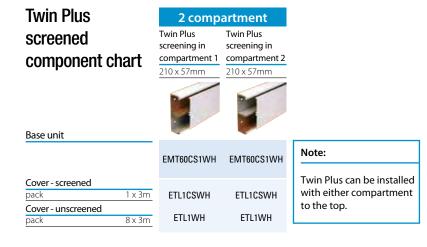


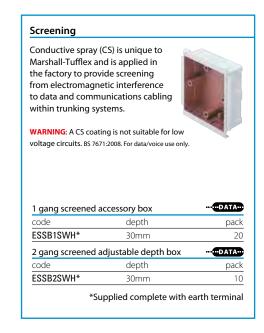
1 gang accessory plate	··· DATA
code	pack
ESSP1WH	10



2 gang accessory olate	DATA
code	pack
ESSP2WH	5

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.





Twin Plus installed at Sunderland College. See page 18 to read the case study in full.





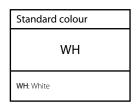
Basic components

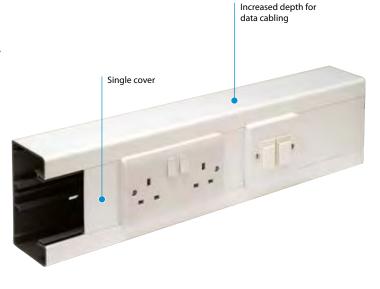
Boxes

Series R 130 is an extra deep compact trunking that is economical for installation in the smaller office or workshop.

Product information

- 130 x 65mm
- 1 main compartment
- Can be subdivided into 2 or 3 compartments
- Single cover
- Suitable for dado application and as a feeder trunking
- Extra deep 40mm deep boxes
- · Data compliant 25mm and 50mm bend radius







Trunking assembly (base and cover)

code	pack
RTBD130WH	2 x 3m



Coupler	
code	pacl
RCP130WH	Ţ



End cap	
code	pack
RECPD130WH	12



Internal bend	
code	pack
RIB130WH	1



External bend	
code	pack
REB130WH	1



Flat angle Fabricated - up/down	
code	pack
RFAD130WH	1



Flat tee
Fabricated - up/down

code pac

RFTD130WH



Dividing fillet	
For centre cor	npartment
code	pac
EL DE200	2 v 3n



Segregator
For top and bottom
compartments

compartments	
code	pack
RDF1	10 x 3m
11011	10 / 51



1 gang accessory box

code	depth	pack
RSSB10WH	40mm	12



2 gang accessory box			
code	pack		
RSSB20WH	40mm	6	



1 gang schuko accessory box

code	depth	pack	
RSSBU10WH	40mm	12	



and for industrial, workshop and laboratory installation, particularly where a high quality of screening

performance is required.

Marshall Tufflex

Aluminium trunking systems

The physical properties of aluminium offer the building industry a high quality material that is very suitable for internal cable management distribution. Aluminium is light to handle with a mechanical strength and impact-resistance that is superior to steel. Extruded sections provide attractive profiles and products are finished with a high quality, powder-coat that provides a blemish-resistant surface.

Aluminium perimeter trunking systems provide the specifier, contractor and end-user with elegant, stream-lined containment that offers the practical advantages of inherent LSOH (low smoke zero halogen) and screening properties. Aluminium is an excellent choice for office and educational areas requiring a stylish yet robust trunking system, particularly effective where a high quality of screening performance and security is required.

Marshall-Tufflex offer a wide range of multi-compartment aluminium trunking in different heights, designs, cable capacities and numbers of compartments so whatever the requirements, there will always be a perfect solution with Marshall-Tufflex.

Choose the UK's number one in cable management.

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although silver grey 9006 is our most popular colour option in aluminium trunking.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special Colours section.

Standard Colours		
WH	SG	
WH: White SG: Silver Grey		

Material	Standard colour	Colour code suffix	RAL
Aluminium	Silver Grey	SG	9006
	White	WH	9016

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

These colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.







Environmental

- Aluminium is naturally found combined in over 270 different minerals, the chief source of which is bauxite ore.
- Its light weight means less strain on supporting structures, easier handling and reduced transport costs.



- 100% recyclable material.
- Can be recycled many times without loss of quality.
- Recycling facilities are well established.



EMI protection

(Electromagnetic interference)

• First class EMI screening performance especially at higher frequencies.



Fire performance

- Aluminium systems specified with polycarbonate fittings meet accepted requirements for LSOH.
- Withstands high temperatures with a melting point of 655°C (1211°F).
- Polycarbonate fittings are fire rated to UL94V0.
- ABS fittings are fire rated to UL94V0.

All aluminium systems are available with standard powder coat finishes in white RAL 9016 or silver-grey RAL 9006. For other finishes, please call our Technical Team on +44 (0)1424 856688.

Sterling Profile 3001

167 x 50mm

Dado trunking with three separate compartments and individual covers for each compartment.



XL Trunking 301

220 x 65mm

Dado trunking with three deep compartments.



Sterling Profile 3002

167 x 50mm

Skirting trunking with three separate compartments and individual covers for each compartment.



XL Trunking 302

220 x 65mm

Skirting trunking with three deep compartments



Sterling Profile 3003

167 x 50mm

Dado and skirting trunking with three separate compartments and individual covers for each compartment.



XL Trunking 303

220 x 65mm

Dado and skirting trunking with three deep compartments



Elegance 110

110 x 55mm

Dado and skirting trunking with a single cover.



XL Trunking 311

308 x 65mm

Dado trunking with four deep compartments.



Elegance 170

170 x 55mm

Dado and skirting trunking with a single cover.



XL Trunking 312

308 x 65mm

Skirting trunking with four deep compartments.



Twin Plus

210 x 57mm

Large capacity dado and skirting trunking with two deep compartments with in-built segregation of power and data.



XL Trunking 313

308 x 65mm

Dado and skirting trunking with four deep compartments.



Bench trunking

105 x 105mm

Desk and laboratory trunking.



Note: use the rule on the left of this page to check profile sizes.

MT32 prefabricated and modular wiring systems

MT32 prefabricated and modular wiring systems are designed to take all the hard work out electrical installations by providing the complete pre-wired, pre-tested, plug and play electrical wiring system.

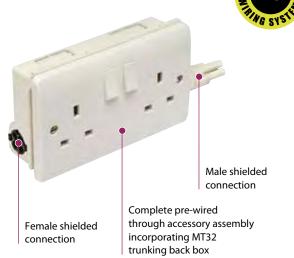
MT32 is a modular plug and play system designed to simplify electrical installation of power within perimeter trunking and underfloor installations. The system provides fast, safe, labour and cost saving installations that comply with BS 8488:2009+A1:2010 for prefabricated wiring systems intended for permanent connection in fixed installation.

The range of pre-wired, pre-tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- · 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system specification that meets the requirement for high integrity earthing
- Suitable for ring and radial circuits
- · Circuit testing only required on completion of final layout
- Reduced installation time no cutting required on site
- · Reduced health & safety risk

Pre-wired accessories







Extension cable 2.5mm ²			
pack			
1			
1			
1			
1			
1			



Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1



Male and female adaptors 2.5mm²

code	length	pack
AA7211 (male)	220mm	1
AA7212 (female)	220mm	1

For adapting distribution board to modular system Note: to fit 20mm knockout

MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housings.

For further information please contact our Technical Team on +44 (0)1424 856688.



Adaptor cables 2 5mm²

daptor cabics 2.5iiiiii			
code	length	pack	
AA8901 (male/male)	0.5m	1	
AA8902 (female/female)	0.5m	1	

Required for ring circuit



Terminal block 2.5mm²

code	size	pack
AA6510 (female/male)	2.5mm ²	1



Pre-wired accessory 2.5mm²

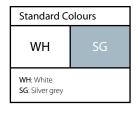
code	size	pack
AA6221	2 gang	1



MT32 MT32

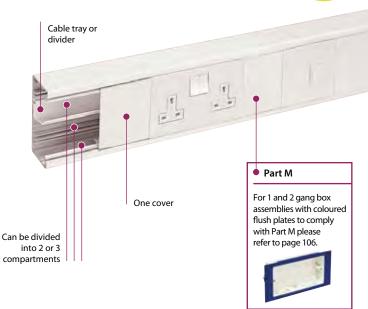
Product information

- 110 x 55mm
- Can be subdivided into 2 or 3 compartments
- Suitable for dado and skirting applications
- Fully compatible with Marshall-Tufflex flush power and data accessories and standard UK wiring power and accessories
- Data compliant 25mm and 50mm bend radius



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.









LTB2SG



Main compartment cover		
code	pack	
LTL1SG	1	





End Caps (Scr	ews included)
code	pack
LECPSSG	1



Internal bend	
code	pac
LIBPSSG	



External bend	
code	pack
LXBPSSG	1



Flat angle	
code	pack
LFASSG	1



Flat tee	
code	pacl
LFTSSG	1



Boxes and plates



Dividir	ng fillet	
code	description	pack
LDF1	unscreened	8 x 3m



Earth bonding kit	
code	pack
LBT3	1

description

ø2.0 x 20mm To aid alignment of base profiles

pack 10

Coupler Pin code

LDP1



Bonding strap			
code	description	pack	
LBS1	base to base 32Amp	5	



Bondii	Bonding strap		
code	description	pack	
LBS2	cover to base	5	



Bonding strap			
code	description	pack	
LBS5	end cap to base	1	



Donan	ig strup	
code	description	pack
LBS5	end cap to base	1



\neg	D/N	1CR	H_{Δ}	ııci	na

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated **Note:** RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

	description	pack
ESSB1SG	ABS	1
ESSB401WH	polycarbonate	1



2 gang accessory box 30mm deep

code	description	pack
ESSB2SG	ABS	1
ESSB402WH	polycarbonate	1



исритьох			
code	depth	pack	
EAB1SG	32-40mm	1	



2 gang adjustable depth box	DATA

depth box			
code	depth	pack	
EAB2SG	32 – 40mm	1	



1 gang accessory ---DATA plate code

ESSP1SG

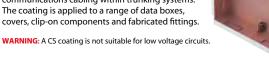


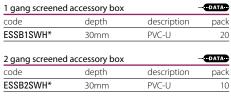
2 gang accessory plate code ESSP2SG

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and $communications\ cabling\ within\ trunking\ systems.$ The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.





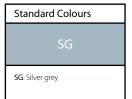
*Supplied complete with earth terminal

Elegance 170 aluminium is a sleek and rounded 170mm rectangular dado trunking system with a single cover, ideal for use in office or educational environments where extra mechanical strength and a higher cable capacity is required.

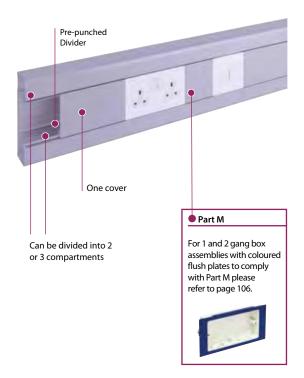


Product information

- 170 x 55mm
- "C" type section can be used as a single large compartment section or can be further subdivided into 2 or 3 compartments
- Suitable for dado and skirting applications
- Plain or pre-punched dividers for quick installation
- A range of fabricated fittings
- Part M compliant
- Data compliant 25mm and 50mm bend radius
- Compatible with Marshall-Tufflex flush power and data accessories and standard UK wiring power and accessories
- Standard silver-grey RAL 9006 powder coat finish. White RAL 9016 is also available to order subject to a lead time.
- · Can be used in conjunction with Conduit and Mini trunking systems



Options: optional colours and finishes are available but these will be subject to minimum quantity orders, longer lead times and set up charges. For more information contact the Technical Team on +44 (0)1424 856688.





Base unit and cover

code	pack
LP1050SG	1 x 2.9m

Note: In order to subdivide Elegance 170 dividing fillets should be used



End cap (screws included)

code	pack
LP1030SG	1



Internal bend 90°

code	pack
LP1020SG	1



External bend 90° Slow

code	pacl
LP1026SG	1



Flat angle

code	pac
LP1040SG	





LP1005

Boxes and plates



1.45m

Dividing fillet (pre-punched) code length



Plastic dividing fillet (un-punched) code length

1.45m

LP1006



Earth bonding kit	
code	

Coupler Pin

LDP1

Note: Fastons supplied suit 1.5mm to 2.5mm cable (blue) and 4.0mm to 6.0mm (yellow).

description

To aid alignment of base profiles

pack



Earth bonding kit		Bondin	g str
code	pack	code	des
LBT3	1	ESBS1	bas

10





Bonding strap

	-9	
code	description	pack
LBS2	cover to base	5



code	description	pack
LBS5	end cap to base	1



	description	pack
;	end cap to base	1



NCD/MCD Housing	
code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

code	description	pack
ESSB1SG	ABS	1
ESSB401WH	polycarbonate	2 1



2 gang accessory box 30mm deep

code	description	pack
ESSB2SG	ABS	1
ESSB402WH	polycarbonate	1



acptirbox		
code	depth	pack
EAB1SG	32 – 40mm	1



2 gang adjustable -- DATA

depth bo.	X	
code	depth	pack
EAB2SG	32 – 40mm	1



plate	
code	pack
ESSP1SG	1



2 gang accessory plate ESSP2SG

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.



corcis, ciip	on components	, arra rabircatea i	95.
WARNING: A	CS coating is not s	uitable for low volt	age circuits

code	depth	description	pack
ESSB1SWH*	30mm	PVC-U	20
2 gang screened	accessory box		DATA
2 gang screened code	accessory box depth	description	pack

1 gang screened accessory box

*Supplied complete with earth terminal

Sterling Profile aluminium is a popular and stylish looking trunking system that offers a variety of trunking profiles with separate compartment covers.

Product information

- 167 x 50mm
- 3 segregated compartments
- · Can be subdivided
- · Suitable for dado applications
- A range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories

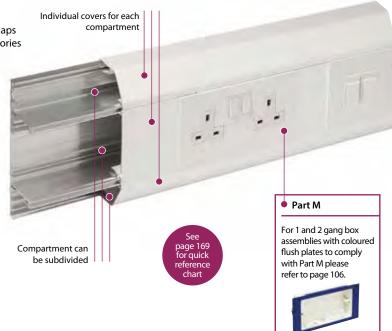
Data information

- Data compliant 25mm and 50mm bend radius
- Adjustable data box 32-40mm
- · Screened divider and data boxes



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.











Sterling Profil	e 3001
size:	167 x 50mm

Sterling Profile	3002
size:	167 x 50mm

Sterling Profile 3003











ETB300MF*	2 x 3m
code	pack
base unit	

*MF=Mill finish

Main compartment cover	
code	pac
LTL1SG	1 x 3n

Angled cover	
code	pack
ETAC300SG	1 x 3m

Square cover	
code	pack
ETSC300SG	1 x 3m





ECP401SG

Profile 3001	
Coupler	



Profile 3002 Coupler code pack ECP402SG



Profile 3003 Coupler

coup.c.	
code	pack
ECP403SG	1



Profile 3001 End cap code pack EECP401SG



Profile 3002	
End cap	
code	pacl
EECP402LHSG (Left hand)	1
EECP402RHSG (Right hand)	1



Profile 3003 End cap code pack EECP403SG



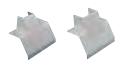
Profile 3001 Internal bend code pack EIBP401SG



Profile 3002 Internal bend pack code EIBP402SG



Profile 3003 Internal bend pack code EIBP403SG



adaptor code Description pack EATA402SG MMT2 EATA404SG MMT4

Angled mini-trunking



EXBP401SG	1
code	pack
External bend	
Ргопіе 300 і	



Profile 3002 External bend code pack EXBP402SG



Profile 3003 External bend code pack EXBP403SG



Square mini – trunking adaptor code ESTA402SG MMT2 ESTA404SG MMT4



Profile 3001 Flat angle - up/down code

EFAP3001SG

Profile 3002



Flat angle - upward EFAP3002USG



Profile 3002

Flat angle – downward		
code	pack	
EFAP3002DSG	1	



Profile 3003 Flat angle - up/down

(ode	pack
ī	EV B3UU32G	1



Profile 3001 Flat tee – up/down

· iac ccc	ap, actiii	
code		pack
EFTP3001	SG	1



Profile 3003 Flat tee – up/down

nactee apracini	
code	pack
EFTP3003SG	1

Sterling Profile 3002 flat tees

Where profiles have one angled cover and one square cover, as with Sterling Profile 3002, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select Profile 3001 tee remove the angled bottom cover and replace with square cover.
- Downward tee select Profile 3003 tee remove the square top cover and replace with angled cover.



Dividing fillet (PVC-U)

pack EDF1 outer $8 \times 3 m$



Earth	bonding	kit

code	pack
LBT3	1

Coup	ler	Pin

code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap

bonanig strap			
code	description	oack	
LBS1	base to base 32Amp	5	



Bonding strap

code description pa	
code description pe	ick
LBS2 cover to base	5



Main crossover bridge

(PVC–U)	
code	pack
EMCB1	5



Angled cable retainer

(PVC-U)	
code	pack
EACR1	10



Main cable retainer

EMCR1	10
code	pack
(FVC=0)	



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

	F	
code	description	pack
ESSB1SG	ABS	1
ESSB401WH	polycarbonate	2 1



2 gang accessory box 30mm deep

Υ	
description	pack
ABS	1
polycarbonate	1
	description



1 gang adjustable -- PATAdepth box

are period	J.,	
code	depth	pack
EAB1SG	32 – 40mm	1

2 gang adjustable TATA depth box code depth EAB2SG 32 – 40mm

pack

ESSP1SG



1 gang accessory plate code



2 gang accessory plate code pack ESSP2SG

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Quick reference chart

Sterling Profile aluminium component chart

3 compartment		
Profile 3001	Profile 3002	Profile 3003
167 x 50mm	167 x 50mm	167 x 50mm

Base unit	
Pack	2 x 3m
Milled aluminium	



Main compartr	nent cover
Pack	1 x 3m



LTL1SG	LTL1SG	LTL1SG

ETB300MF





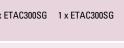
ETB300MF

LTL1SG LTL1SG



1 x 3m

2 x ETAC300SG



ETB300MF



Pack



2 x ETSC300SG







1x ETSC300SG

Couplers Pack

End caps

Left or right handed

Internal bends

External bends

Flat angles

† Flat tees

Upward or downward

Internal base corner needs to be mitred

External base corner needs to be mitred

† See Flat Tee information below

Pack

Pack

Pack







EFTP3001SG



ECP403SG



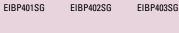




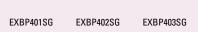




















EFTP3003SG

† Sterling Profile 3002 flat tees

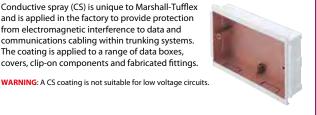
Where profiles have one angled cover and one square cover, as with Sterling Profile 3002, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select Profile 3001 tee remove the angled bottom cover and replace with square cover.
- Downward tee select Profile 3003 tee remove the square top cover and replace with angled cover.

Screened boxes

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide protection from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.



ESSB1SWH*	30mm	PVC-U	20
2 gang screened	accessory box		DATA
code	depth	description	pack
ESSB2SWH*	30mm	PVC-U	10

1 gang screened accessory box

code

*Supplied complete with earth terminal

description

DATA



XL aluminium trunking 301 to 303 comprises a range of deep, 3-compartment systems that provide extra capacity and screening performance levels for data cabling.

Product information

- 220 x 65mm
- 3 deep segregated compartments
- · Compartments can be subdivided
- Suitable for dado and skirting applications (XL301 is recommended for dado application only)
- Includes a range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories

Data information

- Data compliant 25mm and 50mm bend radius
- · External bends feature internal segregators
- Adjustable data box 32mm 47mm
- Screened divider and data boxes



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.













XL 303 size 220 x 65mm



Base unit	
code	pack
ELTB300	2 x 3m



Main compartment cover	
code	pac
LTL1SG	1 x 3n



Angled cover	
code	pack
ELAC300SG	1 x 3m



Square cover	
code	pack
ELSC300SG	1 x 3m



Fittings (Polycarbonate)



XL 301 Coupler	
code	pack
EC401SG	1



XL 302 <u>Coupler</u> <u>code</u> <u>pack</u> <u>EC402SG</u> 1



XL 303
Coupler
code pack
EC403SG 1



XL 301	
End cap	
code	pack
EEC401SG	1



AL 302	
End cap	
code	pack
EEC402LHSG (Left hand)	1
EEC402RHSG (Right hand)	1

A1 3U3



EEC403SG	1
code	pack
End cap	
XL 303	



XL 301	
Internal bend	
code	pack
EIB401SG	1



XL 302 Internal bend code pack EIB402SG 1



XL 303 Internal bend code pack EIB403SG 1



XL 301 External bend	
code	pack
EXB401SG	1



XL 302 External bend	
code	pack
EXB402SG	1



 External bend
 pack

 EXB403SG
 1

XL 303



XL 301
Flat angle – up/down
code pa
EFA301SG



XL 302	
Flat angle – upward	
code	pack
EFA302USG	1



XL 302 Flat angle – downward code pack EFA302DSG 1



Flat angle – up/down

XL 303

code pack

EFA303SG 1



XL 301
Flat tee – up/down
code
EFT301SG



XL 303 Flat tee – up/down code pack EFT303SG 1

XL Trunking 302 flat tees

Where profiles have one angled cover and one square cover, as with XL 302, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select XL 301 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 303 tee remove the square top cover and replace with angled cover.

ALUMINIUM TRUNKING SYSTEMS



Dividing fillet	
code	pack
ELDF200	8 x 3m



Earth bonding kit	
code	pac
LBT3	

Coup	ler Pin	
code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap			
code	description	pack	
LBS1	base to base 32Amp	5	



Bonding strap			
code	description	pack	
LBS2	cover to base	5	



*RCD/MCR Housing

EAHC1MWH	1
code	pack
TCD/WCD Housing	

*Up to 4 modules can be accommodated Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

code	description	pac
ESSB1SG	ABS	
ESSB401WH	polycarbonate	



2 gang accessory box 30mm deep

code	description	pack
ESSB2SG	ABS	1
ESSB402WH	polycarbonate	1



1 gang adjustable -----DATA---

аерин бох		
code	depth	pack
EAB1SG	32 – 47mm	1



2 gang adjustable depth box		DATA
code	depth	pacl

depth bo	•	
code	depth	pack
EAB2SG	32 – 47mm	1



1 gang accessory plate	DATA
code	pack
ESSP1SG	1



2 gang accessory plate	DATA
code	pack
ESSP2SG	1

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and $communications\ cabling\ within\ trunking\ systems.$ The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits.



1 gang screened	d accessory box		DATA
code	depth	description	pack
ESSB1SWH*	30mm	PVC-U	20

2 gang screened	d accessory box		DATA
code	depth	description	pack
ESSB2SWH*	30mm	PVC-U	10

*Supplied complete with earth terminal

Quick reference chart 3 Compartment XL 301 XL 302 XL Aluminium 301 to 303 XL 303 220 x 65mm 220 x 65mm 220 x 65mm Base unit Pack 2 x 3m ELTB300 ELTB300 ELTB300 Features earth bonding rail and screw ports to aid the fastening of pipe clips and gas valves etc Main compartment cover LTL1SG LTL1SG LTL1SG Pack 1 x 3m Angled cover Pack 1 x 3m 2 x ELAC300SG 1 x ELAC300SG Square cover 1 x 3m 2 x ELSC300SG Pack 1 x ELSC300SG Couplers Pack EC401SG EC402SG EC403SG End caps EEC402LHSG EEC401SG EEC403SG Pack EEC402RHSG left or right hand Internal bends EIB401SG EIB402SG EIB403SG Pack External bends EXB401SG EXB402SG EXB403SG Pack Flat angles FFA302USG EFA301SG EFA303SG Pack EFA302DSG upward or downward † Flat tees **EFT 301SG** EFT303SG Pack † See Flat Tee information below

† XL Trunking 302 flat tees

Where profiles have one angled cover and one square cover, as with XL 302 trunking, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select XL 301 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 303 tee remove the square top cover and replace with angled cover.



XL aluminium trunking 311 to 313 comprises a range of deep, multi-compartment systems that provide extra capacity and screening performance levels for data cabling. XL 311, 312 and 313 offer the facility to extend height for higher density cabling.

Product information

- 308 x 65mm
- 4 or more deep segregated compartments
- · Compartments can be subdivided
- Suitable for dado and skirting applications
- (XL 311 is recommended for dado application only)
- Includes a range of polycarbonate clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories

Data information

- Data compliant 25mm and 50mm bend radius
- External bends feature internal segregators
- · Adjustable data box 32mm 47mm

*XL 311

*For dado installation only

Screened divider and data boxes



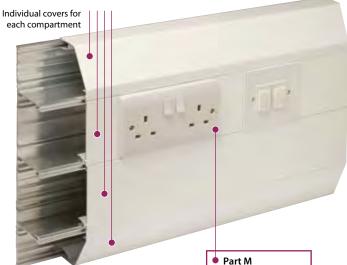
Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.

XL 312

size

308 x 65mm



For 1 and 2 gang box assemblies with coloured flush plates to comply with Part M please refer to page 106.





308 x 65mm

XL 313 308 x 65mm











Main compartment cover	
code	pack
LTL1SG	1



Angled cover	
code	pack
ELAC300SG	1 x 3m



Square cover	
code	pack
ELSC300SG	1 x 3m



Extendable base*

code	pack
ELEB300	1 x 3m

^{*} To increase number of compartments





XL 311 Coupler

Fittings (Polycarbonate)





XL 312 Coupler code EC402SG plus ELLCC400SG



XL 313 Coupler

code	pack
EC403SG plus ELLCC400SG	1



XL 311 End cap

code	μa
EEC401SG plus ELLEC400SG	
Universal for RH and LH	



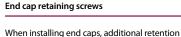
XL 312 End cap

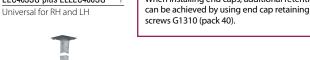
pack EEC402LHSG plus ELLEC400SG 1 EEC402RHSG plus ELLEC400SG 1



XL 313

End cap	
code	pack
FEC403SG plus FLLEC400SG	1







XL 311 Internal bend

IIICITIAI DCIIA	
code	pack
EIB401SG plus ELLIB400SG	1



XL 312 Internal bend

code	pack
EIB402SG plus ELLIB400SG	1



XL 313 Internal bend

code	pack
EIB403SG plus ELLIB400SG	1



XL 311 External bend

code pa	ıck
EXB401SG plus ESLEB400SG	1



XL 312

EXTERNAL DENG	
code p	ack
EXRA02SG plus ESI FRA00SG	1



XL 313

External bend		_
code	ра	ck
EXB403SG plus ESLEB4	00SG	1



XL 311

riat arigie – up/dowri	
code	pack
EFA311SG	1



XL 312

riat arigic	apwara	
code		pack
EFA312USG		1



XL 312

Flat angle – dov	
code	pack
EFA312DSG	1



XL 313

EEV3136G	1
code	pack
Flat angle – up/dow	/n



XL 311

Flat tee - up/down

	шр, шотт	
code		pack
EFT311SG		1



XL 313 Flat tee - up/down

code	pack
EFT313SG	1

XL Trunking 312 flat tees

Where profiles have one angled cover and one square cover, as with XL 312, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select XL 311 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 313 tee remove the square top cover and replace with angled cover.

ALUMINIUM TRUNKING SYSTEMS



Dividing fillet	
code	pac
FI DF200	8 x 3r



Earth bonding kit	
code	pac
LBT3	

Coup	ler Pin	
code	description	pack
LDP1	ø2.0 x 20mm	10

To aid alignment of base profiles



Bonding strap		
code	ode description pa	
LBS1 base to base 32 amp		5



Bonding strap			
code	description	pack	
LBS2	cover to base	5	



*RCD/MCB Housing

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated **Note:** RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

somm dee	ρ	
code	description	pack
ESSB1SG	ABS	1
ESSB401WH	polycarbonate	2 1



2 gang accessory box

30mm deep			
code	description	pack	
ESSB2SG	ABS	1	
ESSB402WH	polycarbonate	1	



aepth bo	JX	
code	depth	pack
EAB1SG	32 – 47mm	1



2 gang adjustable depth box

ucptii box		
code	depth	pack
EAB2SG	32 – 47mm	1



1 gang accessory plate

code pack
ESSP1SG 1



2 gang accessory plate

code pack
ESSP2SG 1

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits.



1 gang screene	d accessory box		···DATA···
code	depth	description	pack
ESSB1SWH*	30mm	PVC-U	20

2 gang screened	accessory box		DATA
code	depth	description	pack
ESSB2SWH*	30mm	PVC-U	10

*Supplied complete with earth terminal

Quick reference chart 4 Compartment XL 311 XL Aluminium 311 to 313 XL 312 XL 313 308 x 65mm 308 x 65mm 308 x 65mm Base unit 2 x 3m Pack ELTB300 ELTB300 ELTB300 Features earth bonding rail and screw ports to aid the fastening of pipe clips and gas valves etc Extendable base ELEB300 ELEB300 ELEB300 Pack 1 x 3m Additional 88mm compartment Main compartment cover 2 x LTL1SG 2 x LTL1SG 2 x LTL1SG Pack Angled cover Pack 1 x 3m 2 x ELAC300SG 1 x ELAC300SG Square cover 1 x 3m Pack 1 x ELSC300SG 2 x ELSC300SG Couplers EC403SG & EC401SG & EC402SG & Pack ELLCC400SG ELLCC400SG ELLCC400SG EEC402LHSG & End caps EEC401SG & ELLEC400SG EEC403SG & Pack EEC402RHSG & ELLEC400SG ELLEC400SG left or right hand ELLEC400SG Internal bends EIB401SG & EIB402SG & EIB403SG & ELLIB400SG ELLIB400SG ELLIB400SG External bends EXB403SG & **EXB401SG & EXB402SG &** Pack ESLEB400SG ESLEB400SG ESLEB400SG Flat angles EFA312USG & Pack EFA311SG EFA313SG EFA312DSG upward or downward † Flat tees EFT311SG EFT313SG Pack † See Flat Tee information below

† XL Trunking 312 flat tees

Where profiles have one angled cover and one square cover, as with XL Trunking 312, it is possible to create a tee by changing the top or bottom cover so that covers match the profile of the trunking. For example:

- Upward tee select XL 311 tee remove the angled bottom cover and replace with square cover.
- Downward tee select XL 313 tee remove the square top cover and replace with angled cover.



-DATA-

Twin Plus aluminium is an extra deep cable management solution incorporating two large segregated high capacity compartments. Twin Plus is specifically designed for carrying large quantities of Cat 6 data cabling.

Product information

- 210 x 57mm
- 2 large permanent segregated compartments
- Each compartment can be subdivided
- · Suitable for dado and skirting applications
- Bends angles and tees with a large bend radius
- Includes a range of clip-on fittings with built-in overlaps
- Fully compatible with Sterling flush power and data accessories
- All fittings are ABS

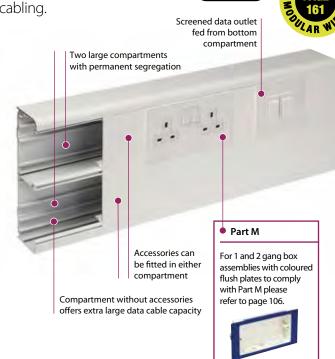
Data information

- 50mm bend radius fittings
- Adjustable data box 32-47mm
- · Screened divider and data boxes



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.







Main compartment cover (aluminium)

code pack
LTL1SG 1 x 3m





Coupler	
code	pack
EC60SG	1



End cap	
code	pack
EEC60SG	1



When installing end caps, additional retention can be achieved by using end cap retaining screws G1310 (pack 40).



Internal bend cover	
code	pack
EIBC60SG	1



Standard external	
bend cover	
code	pack
ESXBC60SG	1



Flat angle cover

code pack

EFAC60SG 1

Components



Internal bend as	sembly
code	pack
EIB60SG	1



External bend assembly Standard

Juliaura	
code	pack
ESXB60SG	1

Capacity reduced by 50%



External bend assembly

LACCITION DCIT	a assembly
Large	
code	pack
EXB60SG	1



Flat angle assembly

code	pack
EFA60SG	1

Covers and cable inserts in ABS



Flat tee assembly

ode	pack
FTA60SG	1

Flat Tees include covers, cable inserts in ABS with base in aluminium



Dividing fillet

(PVC-U)	
code	pack
LDF1	8 x 3m



Earth bonding kit	
-------------------	--

I RT3	pacr
code	pack



Coupler Pin		
code	description	pack

ø2.0 x 20mm To aid alignment of base profiles



Bonding strap

code	description pa	ack
LBS1	base to base 32 amp	5



bonding strap			
code	description	pack	
IRS2	cover to hace	5	



Screened boxes

Boxes and plates



RCD/MCB Housing

code	pack
EAHC1MWH	1
Will a de la la	

*Up to 4 modules can be accommodated

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

John Geep		
code	description	pack
ESSB1SG	ABS	1
ESSB401WH	ESSB401WH polycarbonate	



2 gang accessory box 30mm deep

John Geep		
description	pack	
ABS	1	
polycarbonate	1	
	description	

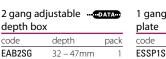


depth box

depth	pack
32 – 47mm	1



2 gang adjustable		DATA
depth b	ОХ	
code	depth	pack





1 gang accessory plate	DATA
code	pack
ESSP1SG	1



2 gang accessory plate	····DATA
code	pack
ESSP2SG	1

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits.



1 gang screened accessory box		DATA	
code	depth	description	pack
ESSB1SWH*	30mm	PVC-U	20
2 gang screened accessory box			
2 gang screene	ed accessor	y box	DATA
2 gang screene	ed accessor depth	y box description	pack
		•	

*Supplied complete with earth terminal



Basic components

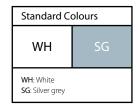
Bench trunking aluminium is a robust angled trunking that can be mounted directly on to desks, work benches or fitted under shelving.

Product information

- 105 x 105mm
- Suitable for desk, bench or worktop applications
- · Can be subdivided
- Fully compatible with Sterling flush power and data accessories

Data information

- Adjustable data box 32-47mm
- · Screened divider and data boxes



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code.

Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.









Base unit		
code	size	pack
MBTAB105SG	105 x 105	imm 1x3m

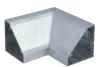
Cover	
code	pack
MBTAL105SG	1 x 3m



End caps (steel)	
code	pack
BECA105SG	1

Internal angle

with fixing screws



(aluminium)	
code	pack
BIAA105SG	1



External angle (aluminium) code pack BEAA105SG



1 gang bench unit			
	code	description	pack
	MBUA1SG	no socket	1
	MRSA1SG	ESSISG socket	- 1



2 gang bench unit			
code	description	pack	
MBUA2SG	no socket	1	
MBSA2SG	ESS2SG socket	1	
-			



1 & 2 gang bench unit code description MBUA3SG no sockets





Dividing fillet (PVC-U) BDF105WH 4 x 3m



Earth bonding kit	
code	pac
LBT3	

description ø2.0 x 20mm

To aid alignment of base profiles

10

Coupler Pin



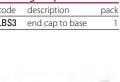
Bonding strap			
code	description pa	ick	
LBS1	base to base 32 amp	5	



Bonding strap		
code	description	pack
LBS2	cover to base	5



Bondi	ng strap	
code	description	





*RC	D/M	CRI	House	ina

code	pack
EAHC1MWH	1

*Up to 4 modules can be accommodated

Note: RCDs are not supplied by Marshall-Tufflex



1 gang accessory box 30mm deep

code	description	pack
ESSB1SG	ABS	1
ESSB401WH	polycarbonate	e 1



2 gang accessory box 30mm deep

	F	
code	description	pack
ESSB2SG	ABS	1
ESSB402WH	polycarbonate	2 1



1 gang adjustable -- TATA depth box

acptirbo		
code	depth	pack
EAB1SG	32 – 47mm	1

EAB1 and EAB2 are fully adjustable to 47mm. Please see page 311 for more information.



depth box				
code	depth	pack		
EAB2SG	32 – 47mr	n 1		



1 gang accessory plate	DATA
code	pack
ESSP1SG	1



2 gang accessory plate	EDATA
code	pack
ESSP2SG	1

Screening

Conductive spray (CS) is unique to Marshall-Tufflex and is applied in the factory to provide screening from electromagnetic interference to data and communications cabling within trunking systems. The coating is applied to a range of data boxes, covers, clip-on components and fabricated fittings.

WARNING: A CS coating is not suitable for low voltage circuits.



I gang screened accessory box			DATA	
code	depth	description	pack	
ESSB1SWH* 30mm		PVC-U	20	
2 gang screened accessory box				
2 gang screened	accessory box		DATA	
2 gang screened	l accessory box depth	description	DATA	

*Supplied complete with earth terminal

STEEL TRUNKING SYSTEMS

Steel trunking systems incorporate clean lines with a functionality that provides greater mechanical strength combined with first class fire performance and excellent screening capability.

STEEL TRUNKING SYSTEMS

Marshall Tufflex

Steel trunking systems

Steel has a mechanical strength that makes it a robust and durable option for public areas where there is a high footfall. Steel trunking provides specifiers, contractors and end-users with reliable, practical systems with hard-wearing, clean lines and all the advantages of inherent LSOH (low smoke zero halogen) and screening properties.

Our compact Steel trunking systems incorporate stylish clean lines with a functionality that provides greater mechanical strength combined with first class fire performance, excellent screening capability and increased capacity for power and data services.

- Ease of installation our base unit has two standard mounting holes of 6.5mm every 500mm
- · Multiple earthing possibilities in the trunking, at the multi-purpose clip and with the coupler set
- Base systems held by internal coupler sets with scraping cams
- Friction fit covers
- Simple to cut system empty base with no rail to cut through
- Wide range of fittings and accessories

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although solid white RAL 9010 is our most popular colour option for steel trunking.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special Colours section.

Standard Colour
WH
WH: White RAL9010

Material	Standard colour	Colour code suffix	RAL
Steel	White	WH	9010

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

Please note: these colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



System 130

130 x 63mm

A compact rectangular dado trunking also suitable as a feeder trunking.



System 170

170 x 63mm

A mid-size rectangular dado and skirting trunking also suitable as a feeder trunking.



Information

Please note: our steel systems may be subject to lead times. For further information please call our Technical Team on +44 (0)1424 856688.

Note: you may use the rule on the left of this page to check profile sizes.



Environmental

- Steel is very friendly to the environment.
- Compared to other materials it requires relatively low amounts of energy to produce.
- The steel industry has made immense efforts to limit environmental pollution in the last decades.
- Energy consumption and carbon dioxide emissions have decreased by half of what they were in the 1960s.
- Dust emissions have been reduced by even more.



- 100% recyclable material.
- Can be recycled many times without loss of quality.
- The steel industry has been recycling for more than 150 years.
- Recycling one ton of steel saves 1,100 kilos of iron ore, 630 kilos of coal and 55 kilos of limestone.
- Structural steel typically contains around 95% recycled steel content.
- Recycling facilities are well established.



EMI protection

(Electromagnetic interference)

• Steel naturally has very strong EMI properties.



Fire performance

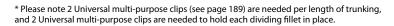
- Steel trunking systems meet accepted requirements for LSOH.
- Withstands high temperatures with a melting point of approximately1370°C (2500°F).
- Type and thickness of any coating needs to be considered as this can affect fire performance.

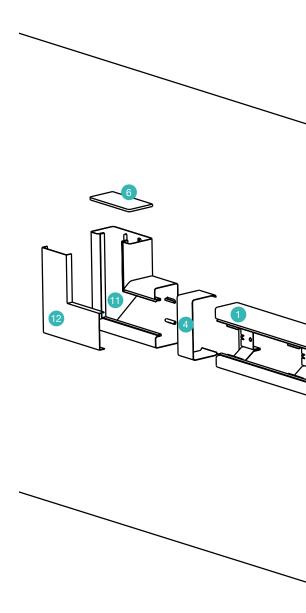


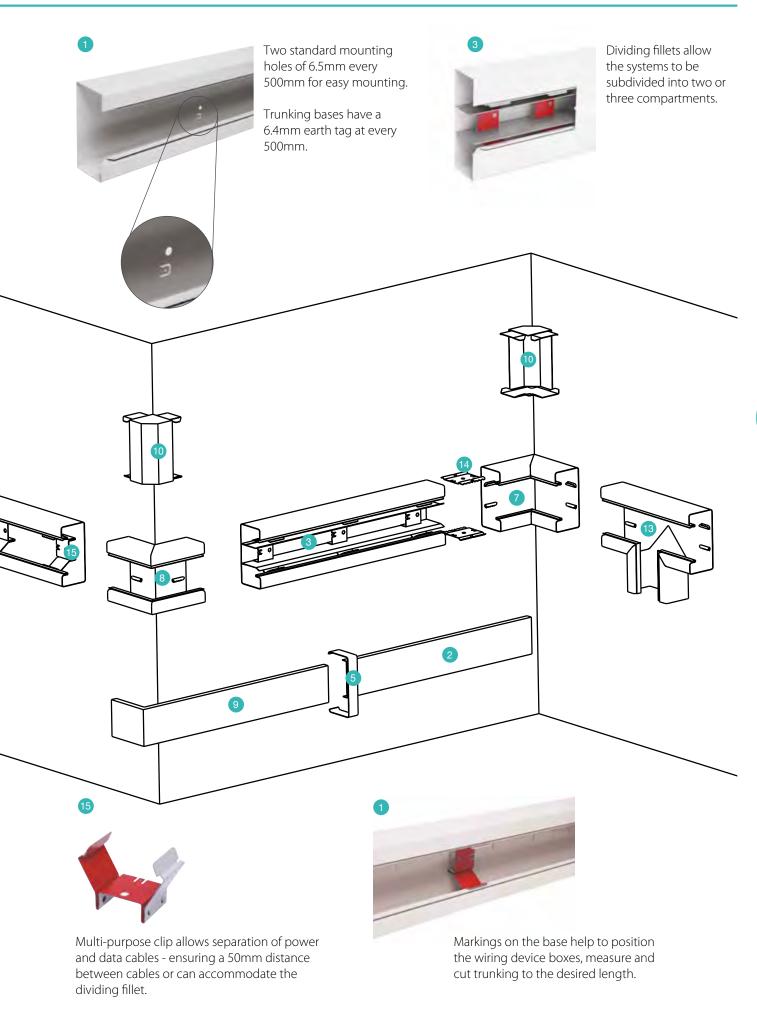
Our compact Steel trunking systems incorporate stylish clean lines with a functionality that provides greater mechanical strength combined with first class fire performance and excellent screening capability.

- Ease of installation our base unit has two standard mounting holes of 6.5mm every 500mm
- Multiple earthing possibilities in the trunking, at the multi-purpose clip and with the coupler set
- Base systems held by internal coupler sets with scraping cams
- · Friction fit covers
- . Simple to cut system empty base with no rail to cut through
- Wide range of fittings and accessories

	Description	System 130	System 170
1	Base unit 2 metre	351215	351216
2	Cover 1 metre	351210	351210
	Cover 1.5 metre	351230	351230
3	Dividing fillet*	351189	351189
4	External tolerance sleeve	351075	351076
5	External joint cover	351105	351106
6	End cap	351045	351046
7	Internal bend base	351275	351276
8	External bend base	351305	351306
9	External bend cover	351240	351240
10	Universal int/ext bend	351175	351176
1	Flat angle base up/down	351335	351336
12	Flat angle cover	351260	351260
13	Flat tee base – up/down	351395	351396
14	Internal coupling/bonding set	351525	351526
15	Universal multi-purpose clip	351319	351319



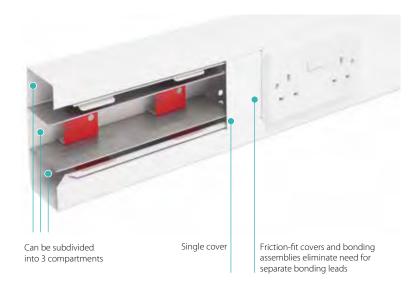


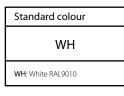


Steel System 130 is stylish compact pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

- . 130 x 63mm
- . 1 main compartment
- · Can be subdivided
- · Suitable for dado application
- Data compliant 25mm and 50mm bend radius





Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on +44 (0)1424 856688.



Base Unit code pack 351215 130 x 63mm 1 x 2m



Cover				
code	length	pack		
351210	1m	10 x 1m		
351230	1.5m	10 x 1.5m		

Please note 2 Universal multipurpose clips (see page 189) are needed per length of trunking, and 2 Universal multi-purpose clips are needed to hold each dividing fillet in place.



External tolerance sleeve			
code	width	pack	
351075	40mm	5	



External joint cover		
code	width	pack
351105	25mm	5



End cap	
code	pack
351045	5

For use with LBS3



Internal bend base code pack 351275



External bend base	
code	pack
351305	1



External bend cover		
code	pack	
351240	1	

Accessories

Boxes



Universal int/ext bend		
code	pack	
351175	1	



Flat angle base – up/down code pack 351335



Flat angle cover code pack 351260



Flat tee base – up/down code pack 351395



Dividing	Fillets	
code	size	pack
351189	1m	10 x 1m



Universal multi-purpose clip		
code	pack	
351319	1	



Internal coupling/bonding set code pack 351525 10 sets Please note each set consists of 2 pieces



End cap bonding strap		
code	pack	
LBS3	1	

Touch-up paint RAL 9010			
code	size	pack	
351029	25ml	1	



essory box	
depth	pack
40mm	12
	· ·



2 gang acco	essory box	
code	depth	pack
RSSB20WH	40mm	6



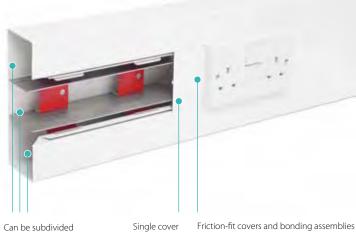
Cover spacer for accessory boxes		
code	width	pack
WG01085	50mm	10

Basic components

Steel System 170 is a mid-sized pre-galvanised trunking system with extra depth and a resilient white powder-coat finish that helps to prevent smearing and marking.

Product information

- . 170 x 63mm
- . 1 main compartment
- · Can be subdivided
- Suitable for dado and skirting application
- · Data compliant 25mm and 50mm bend radius



into 3 compartments

eliminate need for separate bonding leads



Please note that our steel systems may be subject to lead times. For further information please call the Technical Team on +44 (0)1424 856688.



Base unit		
code	size	pack
351216	170 x 63mm	1 x 2m



Cover		
code	length	pack
351210	1m	10 x 1m
351230	1.5m	10 x 1.5m

Please note 2 Universal multipurpose clips (see page 191) are needed per length of trunking, and 2 Universal multi-purpose clips are needed to hold each dividing fillet



External tolerance sleeve		
code	width	pack
351076	40mm	5



External joint cover		
code	width	pack
351106	25mm	5



End cap	
code	pack
351046	5
For use with LBS3	



Internal bend base pack 351276



External bend base	
code	pack
351306	1



External bend cover	
code	pack
351240	1

351176



pack



 Flat angle base – up/down

 code
 pack

 351336
 1



 Flat angle cover

 code
 pack

 351260
 1



 Flat tee base – up/down

 code
 pack

 351396
 1

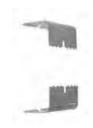
Components



Dividing fillet		
code	length	pack
351189	1m	10 x 1m



Universal multi-purpose clip		
code	pack	
351319	1	



 Internal coupling/bonding set

 code
 pack

 351526
 10 sets

 Please note each set consists of 2 pieces



 $\begin{array}{c|c} \textbf{End cap bonding strap} \\ \hline code & pack \\ \textbf{LBS3} & 1 \\ \end{array}$

Accessories

Touch-up paint RAL 9010		
size	pack	
25ml	1	
	size	



essory box	
depth	pack
40mm	12
	depth 40mm



2 gang acc	essory box	
code	depth	pack
RSSB20WH	40mm	6



Cover spacer for accessory boxes		
code	width	pack
WG01085	50mm	10

192 | Customer services and technical support

Technical support



Our experienced Technical Team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Parts L and M compliancy.

The team are heavily involved with the design and manufacture of the Marshall-Tufflex product ranges which enables us to deliver high quality innovative products to the market.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs. Our Technical Team are able to help and support the design and manufacture of these custom products where possible.

The team's expertise enables them to provide quotations from as little as a floor plan drawing to create a detailed quotation of our specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.

Contact our Technical Services team on +44 (0)1424 856688 or email technical@marshall-tufflex.com

Award winning customer service

Our Customer Service Team are on hand to advise on stock availability, lead times and delivery schedules.

In 2016 Marshall-Tufflex were proud to be shortlisted in the Best Customer Service and Best Overall Supplier categories at the prestigious Electrical Wholesaler Awards.

Contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing collection from our dedicated points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester: Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG **London**: 101c Blackhorse Lane, London E17 6DJ

- Orders can be collected two hours after order placement from Manchester and London.
- Orders placed by 3.30pm will be available for collection until 5.30pm.
- Orders received by 5pm will be ready for collection from 7am the following day.



Hastings: 55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

- Orders placed by 12.30pm can be collected next day from our Hastings depot.
- * Subject to stock availability

To arrange a collection, contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Follow us on Twitter @MTufflex

PVC-U DOMESTIC AND GENERAL TRUNKING

A range of cost-effective PVC-U cable containment for domestic and general wiring installations.

Marshall Tufflex

PVC-U domestic and general trunking

Polyvinyl chloride unplasticised (PVC-U) is one of the most successful modern synthetic materials. It makes excellent use of scarce resources, is long-lasting and safe in production, use and is widely recycled.

PVC-U cable containment is easy to install, light to handle and very cost-effective. It is an excellent choice of material for the majority of commercial, education and healthcare environments and has been more thoroughly researched than almost any other synthetic material.

We have a wide range of PVC-U domestic and general trunking solutions in different heights, designs, cable capacities for the distribution of power and data. Whatever the installation requirements, there will always be a perfect solution with Marshall-Tufflex.

Cable Management...we've got it covered

Standard colour

The standard colour for each Marshall-Tufflex range is shown within each relevant product information section, although solid white RAL 9003 is our most popular colour option for PVC-U.

The below table identifies the relevant RAL colour reference for all our standard colour options, dependent on product range. However we would be happy to quote for any other colour requirements, please see the Special Colours section.

Standard Colours		
WH	RD	BN
WH: White RD: Red BN: Brown		

Material	Standard colour	Colour code suffix	RAL
PVC-U	Solid White	WH	9003
	Red	RD	3020
	Brown	BN	8017

Please note: it is dependent on the product range as to which colour is available as standard.

Special colours

To help enhance the style of an installation, different variations of solid colour are sometimes required.

We can provide special colours in either a solid PVC-U solution or a painted solution dependent on your client's preference. All special colour requirements will need to be specified as a RAL colour.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Please note: these colours are made to order and therefore are subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.



Bio antimicrobial trunking



Where hygiene is a priority, Marshall-Tufflex has a solution with integral antimicrobial properties that can be incorporated within the PVC-U perimeter trunking and deliver ongoing antimicrobial protection that prevents 99.9% of harmful bacteria.

Because the Marshall-Tufflex Bio trunking solution is integral to the PVC-U material, there is no reduction in effectiveness of the trunking throughout its life – even if it is scratched or damaged.

Bench Trunking is available in Bio but not available as standard and is made to order and therefore subject to set up charges and a longer lead time. For more information and a quotation contact our Technical Team on +44 (0)1424 856688.

Mini trunking

10 x 8mm to 75 x16mm

Range of small size containment for general wiring. Standard and self-fix options are available with 1 or 2 compartments.



Cornice trunking

50 x 50mm

A cornice containment system for distributing services around ceiling perimeters. This system can be used with Mini Trunking to supply switch drops and pendant lighting.



Sovereign Plus

75 x 20mm

Skirting trunking with one piece cover.



Maxi trunking

50 x 50mm to 150 x 150mm

A mid-size containment that can be subdivided for general wiring. Larger sizes can accommodate wiring accessories.



Sceptre trunking

100 x 25mm and 100 x 40mm

Smallest trunking system that can still accept a full range of standard wiring accessories. Suitable for unobtrusive, multiple outlet, surface installations.



Bench trunking

105 x 105mm

Robust angular containment for distributing services on the desktop or workbench. Can accept standard wiring accessories.







Environmental

- No increase in dioxin emission from Municipal Waste Incineration.
- No phthalates used in manufacture of PVC-U or FR-ABS.
- Lead-free formulations are used for mouldings and extrusions.
- No use of cadmium-based stabilisers or pigments.
- Lowest oil content of a commodity plastic.



Recycling and sustainability

- PVC-U is a cost-effective, sustainable choice and comparable with other materials such as steel, aluminium, copper and wood.
- 100% recyclable material.
- · Long life cycle.
- No painting or powder coating required.



EMI protection

(Electromagnetic interference)

 Some PVC-U systems are available with a coating that provides effective screening against electromagnetic interference with no reduction in cable capacity.



Fire performance

- The fire rating for PVC-U is excellent* and PVC-U has all the characteristics required for Fire Escape Time.
- Highly resistant to ignition.
- Does little to contribute to the spread of fire and is classified to Building Regs: Class 0.
- Has a low rate of smoke production during the early stages of a fire.
- Acts as an effective barrier to flame spread from malfunctioning electrical components within systems.
- Chars and is self-extinguishing.
- Does not produce flaming droplets or burning debris.
- ABS fittings fire rated to UL94V0.
- *see the independent report at www.beamainstallation.org.uk



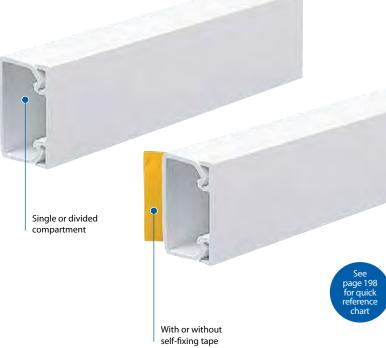
Mini trunking is an economical feeder trunking system with easy accessibility for wiring and re-wiring.

Product information

- A variety of sizes from 10 x 8mm to 75 x 16mm
- Single or divided compartment options
- Self-fix systems available

Data information

• 50mm radius fittings available for MMT4





Colour options: Red and Brown solid colour options are available as standard items for selected products. Please indicate when ordering by replacing the WH colour code suffix with either RD for red or BN for brown.













ммто		
code	size	pac
MMTOV	VH 16 x 10mm	40 x 3r

MMT1		
code	size	pack
MMT1W	/H 16 x 16mm	30 x 3m

MMT2		
code	size	pack
MMT2WI	H 25 x 16mm	30 x 3m
<u> </u>	-1.1.1	

standard colours

MM13		
code	size	pack
MMT3WH	38 x 16mm	15 x 3m



MMT3C - 2	2 compartr	ment
code	size	pack
MMT3CWH	38 x 16mm	15 x 3m



MMT4		
code	size	pack
MMT4WH	38 x 25mm	15 x 3m
Brown avai	lable as stanc	dard



MMT4C - 2 compartment			
code	size	pack	
MMT4CW	H 38 x 25m	ım 15 x 3m	



MMT5		
code	size	pack
MMT5WH	50 x 25mm	12 x 3m



size	pack
38 x 38mm	6 x 3m
	size 38 x 38mm





colour

Components

Accessories







MMT00SF		
code	size	pack
MMT00SFWH	10 x 8mm	40 x 3m

Brown available as standard

colour

MMTOSF code MMT0SFWH 16 x 10mm 40 x 3m

MMT1SF MMT1SFWH 16 x 16mm 30 x 3m







MMT2SF		
code	size	pack
MMT2SFWH	25 x 16mm	30 x 3m

Red and brown available as standard colours

MMT3SF		
code	size	pack
MMT3SFWH	38 x 16mm	15 x 3m

111111111111		
code	size	pack
MMT4SFWH	1 38 x 25mm	15 x 3m

Brown available as standard colour

MMT4SF



Ceiling rose adaptor

Designed to accept all popular

makes of ceiling rose. Supplied

50.8mm. Internal depth 12mm. External diameter 81mm

with fixing screws. Fixing centres

code

TCR2WH



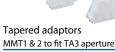
2 K.O. for MMT1 10

2 K.O. for MMT2



Surface box adaptors MMT0/1/2/3

	_, _			
code	size	pack		
TA0WH	MMT0	50		
TA1WH	MMT1	50		
TA2WH	MMT2	50		
TA3WH	MMT3	20		
TA0 fits MMT1-KO				



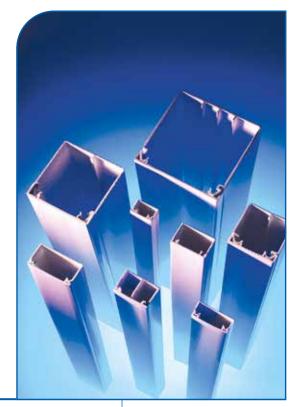
code pack TA3/1LHWH MMT1 20 TA3/1RHWH 20 MMT1 TA3/1CWH MMT1 20 TA3/2LHWH MMT2 20 TA3/2RHWH MMT2 20 TA3/2CWH MMT2 20



Conduit to mini adaptor TAC1/2WH MMT1/20mm round 20

pack





Please note

There are no fittings for MMT00SF, MMT0WH, and MMT0SFWH.

Couplers

External coupler







MMT1WH MMT1SFWH 16 x 16mm		TC1WH Pack 40	TEC1WH Pack 100
MMT2WH MMT2SFWH 25 x 16mm		TC2WH* Pack 40	TEC2WH* Pack 100
MMT3WH MMT3SFWH 38 x 16mm		TC3WH Pack 25	TEC3WH Pack 50
MMT3CWH 38 x 16mm	-	TC3WH Pack 25	TEC3WH Pack 50
MMT4WH MMT4SFWH 38 x 25mm		TC4WH** Pack 25	TEC4WH** Pack 30
MMT4CWH 38 x 25mm		TC4WH Pack 25	TEC4WH Pack 30
MMT5WH 50 x 25mm	-	TC5WH Pack 20	TEC5WH Pack 20
MMT6WH 38 x 38mm		TC6WH Pack 10	TEC6WH Pack 20

Interna	al bends	External bends			
Square internal bend	Radius internal bend cover	Square external bend	Radius external bend assembly	Radius externa bend cover	
	DATA		···DATA···	DATA	

MMT1WH MMT1SFWH 16 x 16mm	TIB1WH Pack 50	-	TEB1WH Pack 50	-	-	
MMT2WH MMT2SFWH 25 x 16mm	TIB2WH* Pack 30	-	TEB2WH* Pack 30	-	-	
MMT3WH MMT3SFWH 38 x 16mm	TIB3WH Pack 25	-	TEB3WH Pack 25	-	-	
MMT3CWH 38 x 16mm	TIB3WH Pack 25	-	TEB3WH Pack 25	-	-	
MMT4WH MMT4SFWH 38 x 25mm	TIB4WH** Pack 25	TIDB4CWH Pack 1	TEB4WH** Pack 25	TEDB4WH Pack 1	TEDB4CWH Pack 1	
MMT4CWH 38 x 25mm	TIB4WH Pack 25	-	TEB4WH Pack 25	-	-	
MMT5WH 50 x 25mm	TIB5WH Pack 20	-	TEB5WH Pack 20	-	-	
MMT6WH 38 x 38mm	TIB6WH Pack 10	_	TEB6WH Pack 10	-	-	

				Tees				
Square equal tee	Radius equal tee assembly	Radius equal tee cover	Square unequal tee	Radius unequal tee assembly	Radius unequal tee cover	Ceiling tee	Offset ceiling tee	Angle tee
		··· DATA		DATA-	······································	\v2		
TT1–1WH Pack 20	-	-	-	-	-	TCT1/1WH Pack 10	-	-
TT2–2WH* Pack 30	-	-	TT2–1WH Pack 30	-	-	TCT2/1WH TCT2/2WH Pack 10	TOCT2/1WH TOCT2/2WH Pack 10	TAT2LHWH TAT2RHWH Pack 10
TT3–3WH Pack 25	-	-	TT3–1WH TT3–2WH Pack 20	-	-	-	-	-
TT3–3WH Pack 25	-	-	TT3–1WH TT3–2WH Pack 20	-	-	-	-	-
TT4–4WH** Pack 20	TDT4–4WH Pack 1	TDT4–4CWH Pack 1	TT4–1WH TT4–2WH TT4–3WH Pack 20	TDT4–2WH Pack 1	TDT4–2CWH Pack 1	TCT4/1WH TCT4/2WH Pack 10	-	-
TT4–4WH Pack 20	-	-	TT4–1WH TT4–2WH TT4–3WH Pack 20	-	-	TCT4/1WH TCT4/2WH Pack 10	-	-
TT5–5WH Pack 20	-	-	-	-	-	-	-	-
TT6–6WH Pack 10	-	-	-	-	-	-	-	-

	Flat angles	
Square angle	Radius flat angle assembly	Square flat angle cover
	····DATA···	···DATA···
TFB1WH Pack 60	-	-

TFB1WH Pack 60	-	-
TFB2WH* Pack 30	-	-
TFB3WH Pack 25	-	-
TFB3WH Pack 25	-	-
TFB4WH** Pack 20	TFDB4WH Pack 1	TFDB4CWH Pack 1
TFB4WH Pack 20	-	-
TFB5WH Pack 20	-	-
TFB6WH Pack 10	-	-

Please note

There are no fittings for MMT00SF, MMT0WH, and MMT0SFWH.



^{*} Red and brown available as standard colours

^{**} Brown available as standard colour

1 ga	1 gang accessory boxes - Square							
Depth	Mini trunking sizes	Knockout entries	Code	Pack				
19mm	MMT1/2	LH, RH, Centre	MSSB28WH	20				
19mm	MMT3	LH, RH, Centre	MSSB110WH	20	2.7			
32mm	MMT1/2	LH, RH, Centre	MSSB35WH	20				
32mm	MMT3	LH, RH, Centre	MSSB116WH	20				
44mm	MMT2/3	Centre entry for both MMT2 and MMT3. RH and LH side entry for MMT2.	MSSB18WH	10				
44mm	MMT3	LH, RH, Centre	MSSB120WH	10				

1 gang accessory boxes - Radius						
Depth	Mini trunking sizes	Knockout entries	Code	Pack		
19mm	MMT1/2	LH, RH, Centre	MSSB27WH	20	D. T. T. S.	
19mm	MMT3	LH, RH, Centre	MSSB112WH	20	4	
32mm	MMT1/2	LH, RH, Centre	MSSB20WH	20		
32mm	MMT3	LH, RH, Centre	MSSB118WH	20		
44mm	MMT2/3	For MMT2 = 1 top entry centre For MMT3 = 1 bottom entry centre	MSSB42WH	10		
44mm	MMT3	LH, RH, Centre	MSSB122WH	10		

1 ga	ang shrouded enti	ry boxes – Square			
Depth	Mini trunking sizes	Knockout entries	Code	Pack	Mh
32mm	MMT2	With integral moulded MMT2 adaptor	MSSB15WH	20	8

Cover plates – Square and radius					
Depth	Mini trunking sizes	Description	Code	Pack	
2mm	N/A	Flat	MSCP2WH	20	
9mm	N/A	Raised	MSSP10WH	10	

Ear	th terminal				
Size	Mini trunking sizes	Description	Code	Pack	
-	-	Brass earthing terminal – 15Amp rating	MET1	100	

2 gang boxes - Square Mini trunking Depth Knockout entries Code Pack MMT2 LH, RH, Centre MSSB36WH 10 32mm 32mm MMT3 LH, RH, Centre MSSB216WH MSSB24WH 44mm MMT2 LH, RH, Centre 44mm MMT3 LH, RH, Centre MSSB220WH

2 gan	2 gang boxes – Radius			
Depth	Mini trunking sizes	Knockout entries	Code	Pack
32mm	MMT2	LH, RH, Centre	MSSB22WH	10
32mm	MMT3	LH, RH, Centre	MSSB218WH	10
44mm	MMT2/3	Centre entry	MSSB43WH	5
44mm	MMT3	LH, RH, Centre	MSSB222WH	5

2 x 1	1 gang box – Rad	ius			
Depth	Mini trunking sizes	Knockout entries	Code	Pack	-1.5
32mm	MMT2	2 x 1 gang MMT2 centre and side entry	MSSB82WH	10	

2 g	ang shrouded enti	ry boxes – Square and radius	5		
Depth	Mini trunking sizes	Knockout entries	Code	Pack	
35mm	MMT2/3	Side entries permit horizontal and vertical accessory mounting Shrouded 2-part entry boxes for use with MMT2 and 3 (25 x 16mm and 38 x 16mm)	MSSB200WH	10	. 4

Cover plates – Square and radius					
Depth	Mini trunking sizes	Description	Code	Pack	
2mm	N/A	Flat	MSCP3WH	10	
9mm	N/A	Raised	MSSP20WH	2	

Eart	th terminal				
Depth	Mini trunking sizes	Description	Code	Pack	
-	-	Brass earthing terminal – 15Amp rating	MET1	100	



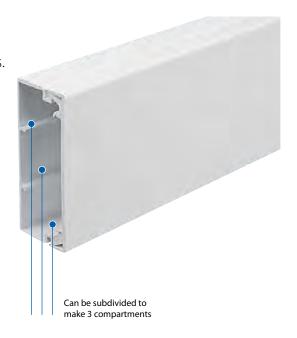
Sceptre trunking is the smallest trunking system that can still accept a full range of standard wiring accessories. It is suitable for unobtrusive, multiple outlet, surface installations.

Product information

- 100 x 25mm
- 100 x 40mm
- Can be subdivided
- Segregated accessory boxes



Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.







Sceptre	Sceptre DTR2		
code	size	pack	
DTR2WH	100 x 25mm	4 x 3m	

26	
Sceptre DTR1	

4 x 3m

DTR1WH 100 x 40mm





Coupler		
code	size	pack
DCJ2WH	100 x 25mm	5
DCJ1WH	100 x 40mm	5



End cap		
code	size	pac
DEC2WH	100 x 25mm	
DEC1WH	100 x 40mm	



pacl
n 5
າ 5



External corner		
code	size	pack
DEB2MWH	100 x 25mm	5
DEB1WH	100 x 40mm	5



Flat angle		
code	size	pack
DFB2MWH	100 x 25mm	5
DFB1WH	100 x 40mm	5



Flat tee (fabricated)		
code	size	pack
DFT2WH	100 x 25mm	1
DFT1WH	100 x 40mm	1



Boxes and Plates





	J	
code	size	pack
DDF2	25mm	10 x 3m
DDF1	40mm	10 x 3m

Cable retainer

code	size	pack
TCRS100	100mm	10



1 gang accessory box





pack



2 gang accessory box

code

10

TSS02WH

1 gang accessory

plate	
code	pack
MTSPS1WH	15



plate	
code	pack
MTSPS2WH	15
Note: For use with both	

DTR1 and DTR2

Note: For use with both DTR1 and DTR2

Assembly

TSS01WH

The segregated accessory box has a 2 part assembly and an internal depth of 25mm. It is for use with DTR1 (100 x 40mm) trunking only.



A mid-size feeder and distribution trunking that can be subdivided to carry power and data. Larger sizes can also accommodate wiring accessories.

Product information

- A variety of sizes from 50 x 50mm to 150 x 150mm
- Single or divided compartment options

Data information

• Fabricated data slow bends



Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.











MTRS50		
code	size	pack
MTRS50M/	H 50 v 50mm	8 v 3m











MTRS100/50WH 100 x 50mm 4 x3m

MTRS100		
code	size	pack
MTRS100W	H 100 x 100mm	4 x 3m

MTRS150		
code	size	pack
MTRS150WH	150 x 150mm	2 x 3m





Mini trunking adaptor

code	size	pack
TTA2WH	MMT2	10
TTA4WH	MMT4	10
Note: only	for 50mm	

trunking depth



Flanged coup	ler	
code	size	pack
TTRS1WH	MTRS100 TO MTRS100/50	1
TTRS2WH	MTRS100 TO MTRS75	1
TTRS3WH	MTRS100 TO MTRS75/50	1
TTRS4WH	MTRS100 TO MTRS50	1
TTRS5WH	MTRS100/50 TO MTRS75/5	0 1
TTRS6WH	MTRS100/50 TO MTRS50	1
TTRS7WH	MTRS75 TO MTRS75/50	1
TTRS8WH	MTRS75 TO MTRS50	1
TTRS9WH	MTRS75/50 TO MTRS50	1
TTRS10WH	MTRS150 TO MTRS100	1
TTRS11WH	MTRS150 TO MTRS75	1

Clear maxi trunking (MTRS50, MTRS100, MTRS100/50 and fabricated fittings only)

Is available and particularly useful for high security installations. For further information please contact our technical team on +44 (0)1424 856688. This range is subject to a set up charge.



Components

Boxes and Plates



Spacer - 25mm

code	pack
MTRS100LID25WH	20

For use between accessory boxes



Clip on fittings

For individual components and part numbers please refer to fittings chart on next page.



Fabricated fittings

For individual components and part numbers please refer to fittings chart on next page.



Slow bend fittings for data

For individual components and part numbers please refer to fitting chart on next page.



Dividing fillet

2		
code	system	pack
MDFS50	50 x 50mm	10 x 3m
	75 x 50mm	
	100 x 50mm	
MDFS75	75 x 75mm	10 x 3m
MDFS100	100 x 100mm	10 x 3m
MDES150	150 v 150mm	10 v 3m



*PCD/MCP bousing

NCD/IVICB Housing	
code	pacl
TAHC1WH	-
*I In to 4 modules can be	

accommodated Note: RCDs and MCBs are not

supplied by Marshall-Tufflex



_			
- 1	gang	accessory	/ box

*Internal depth 30mm

code	pack
TSS03WH*	20
For MTRS100/50 ar	nd MTRS100.



2 gang accessory box

*Internal depth 30mm

code	pack
TSS04WH*	10
For MTRS100/50	and MTRS100.



1 gang accessory	DATA
plate	
code	pacl
MTSPS1WH	15
For MTRS100/50 and I	MTRS100



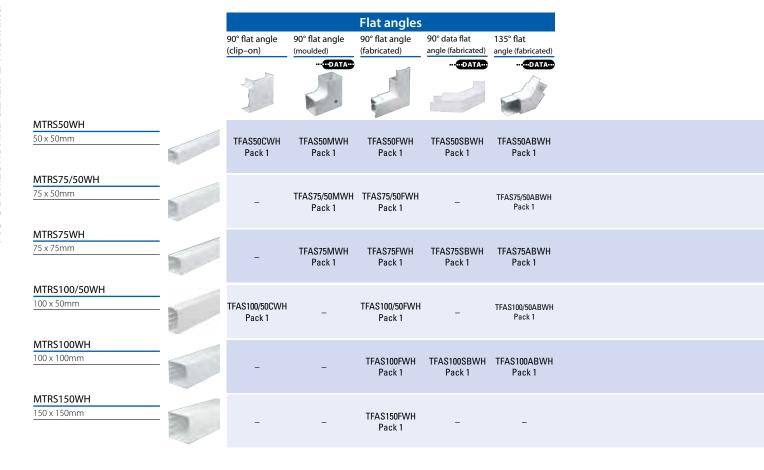
2 gang accessory

piate	
code	pack
MTSPS2WH	1.5
For MTRS100/50 and	d MTRS100





			Fitt	ings		
	Dividing fillet	Cable retainer	External coupler	Internal coupler	Flanged coupler	End cap
		Í				
MTRS50WH	MDFS50	TCRS50	TCCS50WH	TICS50WH	TFCS50WH	TECS50WH
50 x 50mm	Pack 10 x 3m	Pack 10	Pack 10	Pack 10	Pack 1	Pack 10
MTRS75/50WH	MDFS50	TCRS75	TCCS75/50WH	TICS75/50WH	TFCS75/50WH	TECS75/50WH
75 x 50mm	Pack 10 x 3m	Pack 10	Pack 10	Pack 10	Pack 1	Pack 10
MTRS75WH	MDFS75	TCRS75	TCCS75WH	TICS75WH	TFCS75WH	TECS75WH
75 x 75mm	Pack 10 x 3m	Pack 10	Pack 10	Pack 5	Pack 1	Pack 5
MTRS100/50WH	MDFS50	TCRS100	TCCS100/50WH	TICS100/50WH	TFCS100/50WH	TECS100/50WH
100 x 50mm	Pack 10 x 3m	Pack 10	Pack 10	Pack 5	Pack 1	Pack 5
MTRS100WH	MDFS100	TCRS100	TCCS100WH	TICS100WH	TFCS100WH	TECS100WH
100 x 100mm	Pack 10 x 3m	Pack 10	Pack 2	Pack 5	Pack 1	Pack 5
MTRS150WH 150 x 150mm	MDFS150 Pack 10 x 3m	TCRS150 Pack 5	-	TICS150WH Pack 5	-	TECS150WH Pack 1



	Internal bends				External bends				
Internal 90° bend (clip-on)	Internal 90° bend (moulded)	Internal 90° bend (fabricated)	Internal 90° Data bend (fabricated)	Internal 135° Data bend (fabricated)	External 90° bend (clip-on)	External 90° bend (moulded)	External 90° bend (fabricated)	External 90° Data bend (fabricated)	External 135° bend (fabricated)
	DATA		····DATA···	······································				······································	····DATA···
TIAS50CWH Pack 1	TIAS50MWH Pack 1	TIAS50FWH Pack 1	TIAS50SBWH Pack 1	TIAS50ABWH Pack 1	TOAS50CWH Pack 1	TOAS50MWH Pack 1	TOAS50FWH Pack 1	TOAS50SBWH Pack 1	TOAS50ABWH Pack 1
-	-	TIAS75/50WH Pack 1	-	TIAS75/50ABWH Pack 1	-	-	TOAS75/50WH Pack 1	-	TOAS75/50ABWH Pack 1
-	-	TIAS75WH Pack 1	TIAS75SBWH Pack 1	TIAS75ABWH Pack 1	-	-	TOAS75WH Pack 1	TOAS75BWH Pack 1	TOAS75ABWH Pack 1
TIAS100/50CWH Pack 1	-	TIAS100/50WH Pack 1	-	TIAS100/50ABWH Pack 1	TOAS100/50CWH Pack 1	-	TOAS100/50WH Pack 1	-	TOAS100/50ABWH Pack 1
-	-	TIAS100WH Pack 1	TIAS100SBWH Pack 1	TIAS100ABWH Pack 1	-	-	TOAS100WH Pack 1	TOAS100SBWH Pack 1	TOAS100ABWH Pack 1
-	-	TIAS150WH Pack 1	-	-	-	-	TOAS150WH Pack 1	-	-

		Tees			Cros	sovers
Flat tee (moulded)	Flat tee (fabricated)	Data flat tee (gussetted)	External edge tee (fabricated)	Internal edge tee (fabricated)	Flat crossover (fabricated)	Data flat crossover (gussetted)
1	-	DATA				
-	TFTS50WH Pack 1	TFTS50GTWH Pack 1	TTES50WH Pack 1	TTIS50WH Pack 1	TCUS50WH Pack 1	TCUS50GTWH Pack 1
TFTS75/50MWH Pack 1	TFTS75/50WH Pack 1	-	TTES75/50WH Pack 1	TTIS75/50WH Pack 1	TCUS75/50WH Pack 1	-
-	TFTS75WH Pack 1	TFTS75GTWH Pack 1	TTES75WH Pack 1	TTIS75WH Pack 1	TCUS75WH Pack 1	TCUS75GTWH Pack 1
-	TFTS100/50WH Pack 1	-	TTES100/50WH Pack 1	TTIS100/50WH Pack 1	TCUS100/50WH Pack 1	-
-	TFTS100WH Pack 1	TFTS100GTWH Pack 1	TTES100WH Pack 1	TTIS100WH Pack 1	TCUS100WH Pack 1	TCUS100GTWH Pack 1
-	TFTS150WH Pack 1	-	TTES150WH Pack 1	TTIS150WH Pack 1	TCUS150WH Pack 1	-



Firefly



Firefly fire safety clips Saving lives in the event of a fire



To comply with the latest fire regulations, Marshall-Tufflex supply a range of Firefly fire clips to secure cables within or outside of mini trunking, maxi trunking or conduit. The clips are designed to prevent cables from falling in the event of a fire, keeping escape routes free and accessible.

- Fire safety clips to comply with BS 5839-1
- · For use within mini trunking, maxi trunking and conduit
- · Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- Internal version to fit within trunking prior to cables being installed
- External version to retrofit onto existing installations
- Melt point over 1000°C
- Kits available including all required fixings/screws ready for installation



New regulations

New regulations came into effect in July 2015, prohibiting the use of non-metallic clips or plastic trunking as being the sole means of support for cables. Firefly clips meet the requirements of BS7671:2015 Wiring Regulations to secure all surface cables in escape routes, preventing people from becoming entangled and allowing escape.

Firefly clips feature rounded ends, preventing damage to cables and injury to installers. The spring-loaded design makes it straightforward to install and to add or remove cables after the initial installation.

BS7671:2015 521.11.201

Wiring systems in escape routes shall be supported in such a way that they will not be liable to premature collapse in the event of fire.

See page 239 for product ordering information.

Bench trunking is a robust angled trunking that can be mounted directly on to desks, work benches or fitted under shelving.

Product information

- 105 x 105mm
- Suitable for desk, bench or worktop applications
- · Can be subdivided
- Fully compatible with Marshall-Tufflex and UK standard power and data accessories

Data information

· Adjustable data box 32-47mm



Colour options: optional colours and finishes are available but these are subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



For box assemblies that meet the requirements of Part M (DDA) please refer to page 106.

Part M

to special order

Trunking assembly					
code	size	pack			
MBT105WH 105 x 105mm 2 x 3m					



Coupler					
pack					
1					



Single sided end caps pack BEC105WH



Double sided end caps BECP210WH



Internal bend	
code	pack
BIA105WH	1
Couplers required with	bends



External bend	
code	pack
BEA105WH	1
Couplers required with	bends



Dividing fillet					
code	pack				
BDF105WH	4 x 3m				



PVC-U DOMESTIC AND GENERAL TRUNKING



1 gang single sided unit

code			pack
MBU1WH			1



1 gang double sided unit

r garig adable staca	arne
code	pack
MDBU1WH	1



2 gang single sided unit

z garig sirigic siaca	unit
code	pack
MBU2WH	1



2 gang double sided unit

code	pack
MDBU2WH	1



1 plus 2 gang single sided un

single sided unit	
code	pack
MBU3WH	1



1 plus 2 gang double sided unit

double sided unit	
code	pack
MDBU3WH	1



RCD/MCR housing

BAHC1MWH	1
code	pack
NCD/IVICD Housing	

*Up to 4 modules can be accommodated

Note: RCDs and MCBs are not supplied by Marshall-Tufflex



1 gang accessory box

r garig accessory box		
code	depth	pack
ESSB1WH	30mm	20



2 gang accessory box

guing accessory box		
ode	depth	pack
SSB2WH	30mm	10



code	depth	pack
EAB1WH	32 – 47mm	10



depth	box	
code	depth	pack
EAB2W	H 32 – 47mm	5



ESSP1WH

1 gang accessory plate



2 gang accessory plate
code pac

ESSP2WH

10

 $\rm EAB1$ and $\rm EAB2$ are fully adjustable to 47mm. Please see page 311 for more information.



13Amp DP 1 gang switched socket front fix

code	pack
ESS1WH	1



13Amp DP 2 gang switched socket Twin earth front fix

TWITE EATTH, ITOTIC IIX	
code	pack
ESS2WH	1

Cornice trunking provides elegant and unobtrusive concealment for surface wiring around ceilings.

Product information

- 50 x 50mm
- Designed for use with MMT1 and MMT2 mini trunking (see page 196)
- Adaptors available for cable runs across ceilings or down walls
- Use with mini trunking to supply pendant drops and surface accessories
- · Removable cover



Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.





Cornice trunking		
code	size	pack
MCT1WH	50 x 50	8 x 3m





MCTC1\A/II	'
code	pack
Coupler	



End cap	
code	pack
MCEC1WH	10



Internal bend	
code	pack
MCIB1WH	10



code	pack
MCEB1WH	10



Cable retainer	
ode	pack
MCBP1	10



to Mini trunking		
code	size	pack
MCCD1LHWH	MMT1	10
MCCD2LHWH	MMT2	10

Corner adaptor LH



Corner adaptor RH to Mini trunking MCCD1RHWH MMT1 10 MCCD2RHWH MMT2 10



Corner adaptor to Angled cableway 12007WH 10



Trunking adaptor to MMT1 Mini trunking

code	pack
MCTA1WH	10



Trunking adaptor

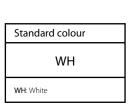
to MMT2 Mini trunking	
code	pack
MCTA2WH	10



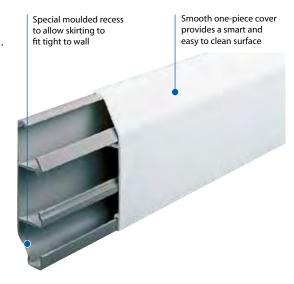
Sovereign Plus skirting trunking is a slim trunking system suitable for installation into hotels, small offices and houses.

Product information

- 75 x 20mm
- 3 compartments
- Suitable for skirting applications
- Overlapping fittings
- Accessory boxes designed to accept square and radius corner accessories
- · Can be used with mini trunking



Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



king profile



Skirting trunking		
code	size	pack
JE03WH	75 x 20	8 x 3



pack
20



End cap		
code	size	pack
JM21WH	(left hand)	
JM20WH	(right hand)	E.



pack
10



External bend	
code	pack
JM24WH	10



Cable retainer	
code	pack
JM28	100



MMT2 adaptor (in line)		
code	size	pack
JM25WH	25 x 16	5



1 gang
skirting accessory box
code depth pacl
JM41WH 32mm



2 gang skirting accessory box code depth pac JM42WH 32mm



Round and oval PVC-U conduit systems and fittings and MT Supertube, a high impact alternative to steel conduit suitable for installation where LSOH and EMC are a requirement.



NEW

Round conduit made from super high impact PVC-U.

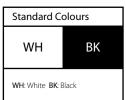
Product information

CONDUIT

- Light or heavy gauge options
- Meet requirements for BS 4607, BS EN61386-1:2008, BS EN 61386-21:2004+A11:2010 and BS EN 61386-25:2011 where applicable

BOXES

- Provision for MET1 brass earth terminal
- · All boxes have threaded brass inserts







Light gauge		
code	O.D	pack
CR2WH	20mm	30 x 3m
CR3WH	25mm	30 x 3m
CR4WH	32mm	10 x 3m
CR9WH	38mm	10 x 3m
CD10\A/LI	FOmm	10 v 2m

For black replace the last two letters of the code with BK



Heavy gauge		
code	O.D	pack
CR6WH	20mm	30 x 3m
CR7WH	25mm	30 x 3m
CR8WH	32mm	10 x 3m
CR11WH	38mm	10 x 3m
CR12WH	50mm	10 x 3m

For black replace the last two letters of the code with BK



xpansion couplers		
ode	size	pack
/IEC2WH	20mm	25
/IEC3WH	25mm	10
/IEC5WH	38mm	10
∕IEC6WH	50mm	5

Should be fitted over a clear gap between two round rigid



Straight couplers		
code	size	pack
MC2WH	20mm	100
MC3WH	25mm	50
MC4WH	32mm	25
MC5WH	38mm	10
MC6WH	50mm	10



Reducers	S	
code	size	pack
MR2WH	25 x 20mm	50



Plastic plugs - red only

Light and heavy gauge options

See page 239 for Conduit Fire Clips

(for heavy gauge conduit) code size pack MPP2 100 20mm 100 MPP3 25mm MPP4 32mm 50



Inspection elbows		
code	size	pack
MIE2WH	20mm	20

For 25mm size use Inspection Bend



Inspection bends		
code	size	pack
MIB2WH	20mm	20
MIB3WH	25mm	20



Inspection tees		
code	size	pack
MIT2WH	20mm	20
MIT3WH	25mm	20



Plain bends		
code	size	pack
MNB2WH	20mm	25
MNB3WH	25mm	10
MNB4WH*	32mm	20
MNB5WH*	38mm	5
MNB6WH*	50mm	2

^{*}Couplers required





Adaptors (Female thread)

		,
code	size	pack
MAB2WH	20mm	100
MAB3WH	25mm	50
MAB4WH	32mm	25
MAB5WH	38mm	15
MAB6WH	50mm	10



Adaptors (Male thread)

code	size	pack
MA7WH	20mm	100
HW8AM	25mm	50



Adaptors (Clip-in spout)

size	pack
20mm	100
25mm	50
	20mm





code	size	pack
MMB2WH	20mm	100
MMB3WH	25mm	100
MMB4WH	32mm	25
MMB5WH	38mm	10
MMB6WH	50mm	10



Threaded lockrings

micaaca lockings			
code	size	pack	
MLR2WH	20mm	100	
MLR3WH	25mm	50	



Round 'U' clips

code	size	pack
MMC2WH	20mm	100
MMC3WH	25mm	50
MMC4WH	32mm	25





Strup suddies			
size	pack		
20mm	100		
25mm	100		
32mm	50		
38mm	25		
50mm	25		
	size 20mm 25mm 32mm 38mm		



Spacer bar saddles

code	size	pack
MSB2WH	20mm	100
MSB3WH	25mm	100
MSB4WH	32mm	50
MSB5WH	38mm	10
MSB6WH	50mm	10



Spacer bar snap saddle

code	size	pack
MSBS2WH	20mm	100





i ilieaded c	able glaffu		
code	size	cable size	pack
MCG2WH	20mm	ø7-10.5	100
MCG2AWH	20mm	ø4-7	25
MCG3WH	25mm	ø8-13	25
MCG4WH	32mm	ø18-24	10



Locknuts (for use with cable glands)

(101 dae with cable glands)		
code	size	pacl
MLN2WH	20mm	100
MLN3WH	25mm	25
MLN4WH	32mm	10



Plain body cable gland

code	conduit	cable size	pack
MCGP2WH	20mm	ø7-10.5	25
MCGP2AWH	20mm	ø4-7	25



Conduit to mini adaptor

code	size	pack
TAC1/2WH	MMT1/20mm roun	d 20





code	size p	oack
0MRB12WH	plain	20
2MRB12WH	4 x ø20mm KO	20
3MRB12WH	2 x ø25mm KO	20



20mm

25mm

20

20

Terminal		
ode	size	

2MRB2WH

3MRB2WH



Through

code	size	pack
2MRB3WH	20mm	20
3MRB3WH	25mm	20



PVC-U plain bored circular boxes are suitable for suspending loads of up to 3kg centrally at 60°C maximum. Fixing centres are at 50.8mm and fitted with M4 brass inserts.



Angle		
code	size	pack
2MRB4WH	20mm	20
01 4DD 41444		



Tee		
code	size	pack
2MRB5WH	20mm	20
3MRB5WH	25mm	20



4-way		
code	size	pack
2MRB6WH	20mm	20
3MRB6WH	25mm	10



Branch 2-way or U code size pack 2MRB13WH 20mm 20 3MRB13WH 20



Branch 3-way or Y

code	size	pack
2MRB14WH	20mm	20
3MRB14WH	25mm	20



Twin through way or H

code	size	pack
2MRB15WH	20mm	20
3MRB15WH	25mm	10



back outlet		
code	size	pack
2MRB1WH	20mm	20
3MRB1WH	25mm	10



Terriniai/L	ack outlet	
code	size	pack
2MRB7WH	20mm	20
3MRB7WH	25mm	10



Through/back outlet

code	size	pack
2MRB8WH	20mm	20
3MRB8WH	25mm	10



Arigie/back outlet			
code	size	pack	
2MRB9WH	20mm	20	
3MRB9WH	25mm	10	



ree/back outlet		
code	size	pack
2MRB10WH	20mm	20
3MRB10WH	25mm	10



4-wav/back outlet

1 Way, back batter			
code	size	pacl	
2MRB11WH	20mm	20	



Circular rubber gasket

code	size	pack
MRG1	66mm diam	100

Black only



Circular lids

code	size	pack
MCL1WH	Flush fitting	
	(65mm diam)	100
MCL2WH	overlapping	
	(85mm diam)	100



Brass earthing terminal

code	rating	pack
MET1	15Amp	100



Circular extension rings

ode	size	pack
MER1WH	12mm	20
MER2WH	20mm	20
MER3WH	25mm	20
MER4WH	32mm	20
MFR5WH	38mm	10

Circular Extension Rings have two lugs fitted with M4 brass inserts and two plain bored lugs



Terminal		
code	size	pack
4SJB1WH	32mm	1
5SJB1WH	38mm	1



Through		
code	size	pack
4SJB2WH	32mm	1
5SJB2WH	38mm	1



Angle		
code	size	pack
4SJB3WH	32mm	1
5SJB3WH	38mm	1



*Conduit solvent cement pack

1x250ml

*Child resistant lid

MSC



Tee		
code	size	pack
4SJB4WH	32mm	1
5SJB4WH	38mm	1



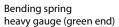
Four-way			
code	size	pack	
4SJB5WH	32mm	1	
5SJB5WH	38mm	1	

Square boxes PVC-U square adaptable boxes have 32mm or 38mm entries. Boxes have

a 75 x 75 x 60mm internal size.

HEALTH & SAFETY DATA FROM THE MARSHALL TUFFLEX WEBSITE www.marshall-tufflex.com AND IN THE INTEREST OF CEMENTS ARE
REGISTERED WITH THE
NATIONAL POISON INFORMATION SERVICE





code	conduit size	pack
MBSH2	20mm	1
MBSH3	25mm	1
MBSH4	32mm	1
MBSH5	38mm	1
MBSH6	50mm	1



Bending spring light gauge (white end)

, ,		.,
code	conduit size	pack
MBSL2	20mm	1
MBSL3	25mm	1
MBSL4	32mm	1



Nylon	draw	tape
-------	------	------

code	pack
MDT10	1 x 10m
MDT20	1 x 20m
MDT30	1 x 30m



Cheese head screws

code	pack
M4 x 8mm	200
M4 x 12mm	200
M4 x 20mm	100
M4 x 25mm	100



Channel (white only)

CHAINICI	(Winte Only	,
code	dimensions	pack
ECC21WH	13 x 8mm	50 x 2m
ECC22WH	25 x 9mm	50 x 2m
ECC23WH	38 x 9mm	50 x 2m



Cable protection guard (black only)

code	dimensions	pack
MTCG19BK	19 x 19mm	10 x 3m
MTCG25BK	25 x 25mm	10 x 3m
MTCG40BK	40 x 40mm	10 x 3m
MTCG55BK	55 x 55mm	10 x 3m
MTCG80BK	80 x 80mm	5 x 3m

see page 224



MTPC42

For further details



Corrugated conduit

(Folypropylerie)		
code	O.D	pack
CC2000WH	20mm	1 x 50m
CC2000BK	20mm	1 x 50m
CC2500WH	25mm	1 x 50m



Straight adaptors (nylon)

otraignt adaptors (rigion)		
ode	size	pack
CC2010WH	20mm	25
CC2510WH	25mm	25





1 gang – square corners			
code	depth	pack	
*MSSB10KWH	32mm	20	

MSSB17KWH 44mm



2 gang – square corners			
code	depth	pac	
*MSSB11KWH	32mm	10	
MSSB23KWH	44mm		

10 *All standard surface boxes have 20mm KOs except MSSB10K and MSSB11K which have 20mm pre-punched holes



1 gang – radius corners		
code	depth	pacl
MSSB19KWH	32mm	20
MSSB40KWH	44mm	10



2 gang – radius corners MSSB21KWH 10 32mm



1 gang – adjustable lug			
code	depth	pack	
MSSB1WH	35mm	12	
MSSB47WH	47mm	10	

Entries: 2 x ø20mm on each of 3 sides (MSSB25)Entries: 2 x ø20mm on each of 4 sides (MSSB1 and MSSB47)



2 gang – adjustable lug		
code	depth	pack
MSSB3WH	35mm	6

Entries: 4 x ø20mm on horizontal sides, 2 x ø20mm on



Surface mount boxes

 $1\,gang\,{=}\,87\,x\,87mm\,with\,60.3\,fixing\,centres$ $2 gang = 147 \times 87 mm$ with 120.6 fixing centres

Flush mount boxes

 $1\,gang\,{=}\,74\,x\,74mm\,with\,60.3\,fixing\,centres$ $2 gang = 134 \times 74 mm$ with 120.6 fixing centres



h pack
20

Size: 86 x 86mm O/A



1 gang – raised		
code	depth	pack
MSSP10WH	9mm	10

Size: 85 x 85mm O/A



Flush mounted 1 gang cover - clip-on

code	depth	pack
MSCP1WH	5.3mm	20

Size: 78 x 78mm O/A



2 gang – flat			
code	depth	pac	
MSCP3WH	2mm	10	

Size: 86 x 146mm O/A



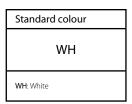
2 gang – raised		
code	depth	pacl
MSSP20WH	9mm	2
Ciao, 0E v 14En	nm ()/A	

Brass earthing terminal			
code	rating	pack	
MET1	15Amp	100	

PVC-U oval conduit and fittings are typically used to protect cables buried in shallow voids or chased into walls.

Product information

- Low depth conduit
- PVC-U conduit is a recyclable material
- PVC-U is a non-flame propagating material
- The range exceeds BS and EN standards



Oval conduit and fittings





Oval conduit Extra super high impact

code:	O.D	Dimensions	Pack
EC016WH	13mm	13 x 8mm	50 x 3m
EC017WH	16mm	16 x 10mm	50 x 3m
EC018WH	20mm	23 x 11mm	50 x 3m
EC019WH	25mm	29 x 11mm	20 x 3m
EC020WH	32mm	32 x 11mm	20 x 3m

Oval clips		
code	size	pacl
M0C1WH	13mm	100
M0C2WH	16mm	100
M0C3WH	20mm	100
M0C4WH	25mm	100
M0C5WH	32mm	100









Oval strap saddle

o rai strap sadane		
code	size	pack
M0CSS20WH	20mm	50
M0CSS25WH	25mm	50



Oval bush		
code	size	pack
M0CB20WH	20mm	25
MOCB25WH	25mm	25

Oval connector

Ovarconnector		
code	size	pack
MOCC20WH	20mm	25
MOCC25WH	25mm	25

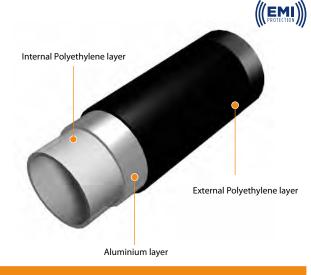
Oval to round adaptors

code	size	pack
M0R2WH	20mm oval/	50
	ø20mm	

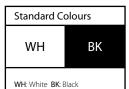
MT Supertube is a unique, LSOH, 3-layer heavy gauge conduit comprising polyethylene internal and external layers over a continuous aluminium tube that provides additional mechanical strength. MT Supertube has excellent EMI screening performance and is a practical and cost-saving alternative to standard galvanised conduits.

Product information

- 20mm and 25mm
- · LSOH conduit
- Excellent screening performance
- · Suitable for rail, marine and tunnel applications
- ZERO WASTE: available in continuous lengths of up to 100 metres, meaning fewer fittings per installation
- · Longer lengths also prevent ingress of water
- Extra security
- Suitable for in-screed applications
- Withstands temperatures from 40° C to + 120° C
- Nail penetration: MT Supertube complies with requirements for BS 7671, BS EN61386-1:2008
- BS 8436 is specification for 300/500V screened electric cable



MT SUPERTUBE is a time saving alternative to galvanised steel conduit. See page 223 for the MT Supertube cost and labour saving comparison.



Colour code suffix: to indicate the finish you require, add the required colour code to the end of the product code. Other colour options are available but may be subject to longer lead times and minimum order quantities. For further information contact the Technical Team on +44 (0)1424 856688.

FIRE SECURITY

MT Supertube FR Plus

MT Supertube is available to meet the requirements of LUL (London Underground Ltd) engineering standard 2-01001-002:issue A1, material classification EQ/1 (equipment/limited and dispersed).

*Please note MT Supertube FR Plus is not a standard stock item and therefore lead times will apply.







MT Supertube coils			
code	size	pack	
22010BK	20mm	1 x 100m	
22505BK	25mm	1 x 50m	



MT Supertube FR Plus conduit		
code	size	pack
220FR03WH*	20mm	30 x 3m
225FR03WH*	25mm	30 x 3m



 MT Supertube FR

 Plus coils
 pack

 code
 size
 pack

 220FR10BK*
 20mm
 1 x 100m

 225FR05BK*
 25mm
 1 x 50m



Tube cutter		
code	size	pack
20001	20-25mm	1



Stripping tool (pre-set)			
code	size	pack	
20002	20-25mm	1	



 Compact tube bender

 code
 size
 pack

 20003
 20-25mm
 1



Boxes (metal)









Female adaptor with brass bush

WILLI DI USS DUSII		
code	size	pack
22077BK	20mm	10
22577BK	25mm	10

Male adaptor thread insert		
code	size	pack
22078MF	20mm	10
22578MF	25mm	10

Coupler pack code size 22079BK 20mm 10 22579BK 25mm 10



Spacer bar snap saddle

LJOH		
code	size	pack
22051BK	20mm	100



Spacer bar saddle LSOH code size pack

25mm

100



U-clip
LSOH
rode

code	size	pack
22053BK	20mm	100
22553BK	25mm	50



Terminal box

code	size	pack
22072BK	20mm	10
22572BK	25mm	10



Tee box

22552BK

code	size	pack
22075BK	20mm	10
22575BK	25mm	10



- Provision to accept a 4mm earthing screw
- All boxes supplied with conduit retaining screw
- All boxes are designed to comply with the requirements of BS 7671
- Taper push-fit conduit entry
- Fittings are available in black and white



Through box

code	size	pack
22073BK	20mm	10
22573BK	25mm	10



Angle box

rangic box		
code	size	pack
22074BK	20mm	10
22574BK	25mm	10



Flush lid

i idaii iid	
code	pack
20007BK	1



25

25



25mm

e			
22042BK 20mm			

22542BK



Clip-in-spout		
code	size	pack
22043BK	20mm	25
22543BK	25mm	25
22543BK	25mm	2



Coupler		
code	size	pack
22044BK	20mm	100
22544BK	25mm	50





Spacer bar snap saddle		
code	size	pack
22051BK	20mm	100



Spacer bar saddle			
code	size	pack	
22552BK	25mm	100	



U-clip		
code	size	pack
22053BK	20mm	100
22553BK	25mm	50

SHEETS ARE AVAILABLE AND IN THE INTEREST OF **SAFETY THE SOLVENT REGISTERED WITH THE** NATIONAL POISON **INFORMATION SERVICE**



Inspection elbow		
code	size	pack
22045BK	20mm	20



Inspection bend		
code	size	pack
22546BK	25mm	20



Inspection tee		
code	size	pack
22047BK	20mm	20
22547BK	25mm	20



Loop-in box code pack size 22011BK 2 x ø20mmKO 20 22511BK 2 x ø25mmKO



Terminal box		
code	size	pacl
22012BK	20mm	20
22512BK	25mm	20



Through box		
code	size	pack
22013BK	20mm	20
22513BK	25mm	20

MT Supertube LSOH boxes and fittings

- Suitable of suspending a load of up to 3kg centrally at 60°C maximum
- Fixing centres 50.8mm fitted with M4 brass inserts
- Provision for brass earthing terminals
- Boxes comply with the requirements of BS 7671 Wiring Regulations and BS 4607 where applicable
- Fittings are available in black and white



Angle box		
code	size	pack
22014BK	20mm	20
22514BK	25mm	20



Tee box		
code	size	pacl
22015BK	20mm	20
22515BK	25mm	20



4-way box code size pack 22016BK 20 20mm 22516BK 25mm 10



Flush lid	
code	pack
20005BK	100

MT Supertube

p220

A time saving alternative to galvanised steel conduit

MT Supertube has a three layer Low Smoke Zero Halogen (LSOH) polyethylene and aluminium construction offering extremely good EMI cable protection and resistance to extremes of temperature and chemicals. It is lightweight yet has the strength of steel meaning it's quick to install and simple to store and carry on site.



Internal Polyethylene layer

- · Combines the strength of metal with the flexibility of PVC-U conduit
- · Fast installation
- Supplied in coils for easy movement around site without the need for hoists
- · Assists in conforming to the EMC directive in regard to EMI shielding
- · Less in line fittings required and minimal wastage
- Forms easily by hand and to a required radius when utilising the tube bender
- Can be buried in concrete and detected by a cat detector
- Useful as vacuum tube for 'aspirated' smoke detection (Heathrow)
- Maintenance free



Contractor cost & labour saving example

(based on contractor purchase price)

Costs calculated on using 100m of 20mm conduit with 8 off 90° bends and estimated manpower costs of £30 per hour

Galvanised steel

Material cost @ £2.04 per metre + fittings = £224 Labour @ 30mins per metre = 2 metres per hour 50 hours @ £30 = £1500

Galvanised steel overall costs = £1724

MT Supertube

Material cost @ £2.62 per metre + fittings = £274.95 Labour @ 10mins per metre = 6 metres per hour 16.67 hours @ £30 = £500

MT Supertube overall costs = £774.95

The savings on this job amount to £949.05.

55% cheaper than galvanised steel

See page 220 for product ordering information.

Cable Protection Guard

p217

Protection for cables on telegraph poles and brickwork





Cable protection guard is the perfect solution to protect cables from impact and damage on telegraph poles and exposed brickwork. Highly shock-resistant but light in weight, it is easy to transport and install thanks to pre-drilled screw holes.

- Manufactured in high quality PVC-U for extra impact protection
- Supplied with pre-drilled screw holes for easy installation
- · Lightweight and easily transported
- · Available in 5 different diameter sizes

Cable protection guard (black only)

code	dimensions	pack
MTCG19BK	19 x 19mm	10x3m
MTCG25BK	25 x 25mm	10x3m
MTCG40BK	40 x 40mm	10x3m
MTCG55BK	55 x 55mm	10x3m
MTCG80BK	80 x 80mm	5x3m

ACCESSORY BOXES AND ENCLOSURES

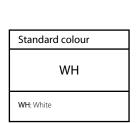
Surface and flush accessory boxes and enclosures are manufactured from super high impact PVC-U.

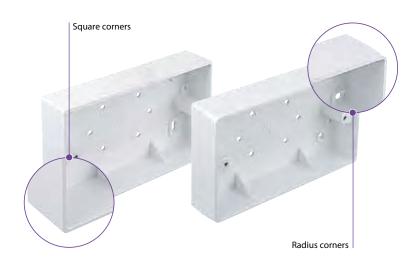


Standard fixed accessory boxes without knockouts for surface installation.

Product information

- 1 gang 87 x 87mm (external dimension)
- 2 gang 87 x 147mm
- M3.5 brass inserts
- Can be cut and drilled without the risk of shattering
- Boxes comply with BS 4662:2006+A1:2009
- Radius and square corner variants





Square corners

Radius corners



1 gang accessory box Square corners

code	depth	pack
MSSB10WH	32mm	20
MSSB17WH	44mm	10



2 gang accessory box

oquare comicio		
code	depth	pack
MSSB11WH	32mm	10
MSSB23WH	44mm	5



1 gang accessory box

Radius corners		
code	depth	pacl
MSSB26WH	19mm	20
MSSB19WH	32mm	20
MSSB40WH	44mm	10



2 gang accessory box

radius comers		
code	depth	pack
MSSB21WH	32mm	10
MSSB41WH	44mm	5



Dual gang accessory box

code	depth	pack
MSSB81WH	32mm	10



Cover plate – flat		
code	description	pack
MSCP2WH	1 gang	20
MSCP3WH	2 gang	10

Depth 2mm



naiseu cover piate – raiseu		
code	description	pack
MSSP10WH	1 gang	10
MSSP20WH	2 gang	2

Depth 9mm

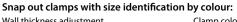


Flush mounted boxes for use within stud walls for alleviating the necessity of using noggins. Boxes feature a wide securing flange around the outer rim.

Product information

- Wide securing flange to prevent box passing through cavity
- Swivelling snap out clamps will tightly grip a range of standard thickness building boards
- Earth terminal provision incorporated
- British Patent Application No. 8208041

Standard colour
WH
WH: White



Wall thickness adjustment	Clamp colour
1 - 9mm	Grey
6 - 14mm	White
18 - 25mm	Green
9 - 26mm	Black



Wide securing flanges

tandard





1 gang 34mm internal depth		
code	adjustment	pack
MDLB3WH	1-9mm	20
MDLB1WH	6-14mm	20
MDLB7WH	18-25mm	20



 34mm internal depth

 code
 adjustment
 pack

 MDLB4WH
 1-9mm
 10

 MDLB2WH
 6-14mm
 10

MDLB8WH 18-25mm



 34mm internal depth

 code
 adjustment
 pack

 MDLB20WH
 1-9mm
 5

 MDLB22WH
 6-14mm
 5

 MDLB24WH
 18-25mm
 5

Dual gang

10



 1 gang

 25mm internal depth

 code
 adjustment pack

 MDLB13WH
 1-9mm
 10



25mm internal depthcodeadjustmentpackMDLB14WH1-9mm10

2 gang



Intumescent fire barrier pads
Fire Barrier Pads are now a requirement of Document B of the UK Building
Regulations. For information on Fire
Barrier Pads please refer to page 237 in our Fire and Security section or contact our Technical Team on +44 (0)1424 856688.





MDLB29WH	9-26mm	10
code	adjustment	pack
401111111111111111111111111111111111111	mai depin	



 2 gang

 46mm internal depth
 code
 adjustment
 pack

 MDLB30WH
 9-26mm
 5



Brass earthing terminalcodeRatingpackMET115 Amp100



Acoustic hoods		
code	description	pack
MDLA1	1 gang	10
MDLA2	2 gang	10

Circular flush mounted boxes

Product information

- Wide securing flange to prevent box passing through cavity
- For board thickness from 9 to 32mm measured from the face of the board
- Swivelling snap out clamps fix the box firmly into position (screws provided)

Standard	l colour
	WH
WH: White	

Colour options: Other colours are available but may be subject to minimum order quantities and longer lead times. For further information please contact the Technical Team on +44 (0)1424 856688.



Wide securing flanges

FIRE SECURITY

Intumescent fire barrier pads

Fire Barrier Pads are now a requirement of Document B of the UK Building Regulations. For information on Fire Barrier Pads please refer to page 237 in our Fire and Security section or contact our Technical Team

Technical Team on +44 (0)1424 856688.



Double back entry - loop in 34mm internal depth (red clamps)

code	fix. centre	pack
MDCRB2WH	50.8/60.3mm	10
Ø 70		

 \emptyset cut out = 70mm

Product information

- Degree of Protection IP66.
- Raised pads in base of box to allow accessory mounting nuts to be recessed.
- Silicon rubber lid seal supplied as standard.
- Brass inserts M3.5 with stainless countersunk fixing screws.
- Suitable for drilling or cutting.
- Raised flat lid for strength.



Moulded enclosure unit (Adaptable box)

code	external size	pack
MTAB75AWH	81 x 81 x 67mm	10
MTAB100AWH	106 x 106 x 67mm	10
MTAB150BWH	155 x 155 x 92mm	4

Also available in black

Product information

- Protects connection to earth rod.
- Earth rod/cable entry ø7-10.5mm.



Earth rod box Green only

code	external size	pack
MECB75GN	81 x 81 x 67mm	10
MECB100GN	106 x 106 x 67mm	10



ACCESSORY BOXES AND

POWER, VOICE AND DATA ACCESSORIES FOR TRUNKING

A range of flush and surface accessories that are compatible with Marshall-Tufflex trunking systems.



Marshall Tufflex

MT32 prefabricated and modular wiring systems

MT32 prefabricated and modular wiring systems are designed to take all the hard work out electrical installations by providing the complete pre-wired, pre-tested, plug and play electrical wiring system.

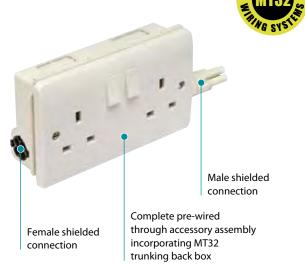
MT32 is a modular plug and play system designed to simplify electrical installation of power within perimeter trunking and underfloor installations. The system provides fast, safe, labour and cost saving installations that comply with BS 8488:2009 for prefabricated wiring systems intended for permanent connection in fixed installation.

The range of pre-wired, pre-tested and assembled interconnecting leads and accessory modules incorporating the Marshall-Tufflex compact 32Amp connector.

Product information

- · 32Amp rated system
- Available as LSOH 3 core 2.5mm² flex system specification that meets the requirement for high integrity earthing
- · Suitable for ring and radial circuits
- · Circuit testing only required on completion of final layout
- · Reduced installation time no cutting required on site
- Reduced health & safety risk

Pre-wired accessories





Extension cable 2.5mm²

code	length	pack
AA3330	0.5m	1
AA3331	1.0m	1
AA3332	1.5m	1
AA3333	3.0m	1
AA3335	5.0m	1



Connection cable free end 2.5mm²

code	length	pack
AA3732 (male)	1.5m	1
AA3532 (female)	1.5m	1



Male and female adaptors 2.5mm²

code	length	pac
AA7211 (male)	220mm	
AA7212 (female)	220mm	

For adapting distribution board to modular system Note: to fit 20mm knockout

MT32 Connectors

The description 'male' (white) and 'female' (black) does not refer to the connector pins but describes and identifies the moulded connector housings.

For further information please contact our Technical Team on +44 (0)1424 856688.



Adaptor cables 2 5mm²

Adaptor Cables 2.5	/111111	
code	length	pack
AA8901 (male/male)	0.5m	1
AA8902 (female/female)	0.5m	1

Required for ring circuit



Terminal block 2.5mm²

code	size	pack
AA6510 (female/male)	2.5mm ²	1



Pre-wired accessory 2.5mm²

I IC WIICC	accessory 2.5	/111111
code	size	pack
AA6221	2 gang	1



MT32 Prefabricated

and modular wiring

section.

For further information about our fully pre-wired, pre-tested and assembled accessories, please refer to page 230 in this

A range of power accessories that comply with BS 1363.

Product information

- Supplied as complete modules including back boxes
- Suitable for all PVC-U and aluminium dado and skirting trunking (excluding Sovereign Plus, Maxi, Sceptre and Series R)
- Suitable for bench trunking, powerpoles and posts
- Flush finish

Wiring accessories

• Twin sockets have dual earth entry



Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



13Amp DP 1 gang switched socket

ESS1WH	1
code	pack
SWITCHER SOCKET	



13Amp DP 2 gan
switched socket

JWITCHEG JOCKET	
code	pack
ESS2WH	1

Twin sockets are supplied with two earth terminals



13Amp DP 2 gang switched socket (front fix)

SWITCHICA SOCKET	(ITOTIC IIX)
code	pack
ESS3WH	1



13Amp 1 gang vertical mount switched socket

code	pack
ESS11WH	1

Note: for PowerPoles, Posts and trunking



Accessory box spacer

,		
code	size	pack
ES1WH	14mm	4

For use between accessory boxes



Voice and data plates that incorporate apertures to accommodate LJ6C outlets.

Product information

- Flush mounting plates
- Standard LJ6C accessories with 22 x 37mm apertures

Standard colour	
WH	
WH: White	

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



Arn Tiush plates



Flush mod	dule	
code	description	pack
EM116WH	1 x 6c	1



Flush module		
code	description	pack
EM126WH	2 x 6c	1









Accessory box spacer			
code	size	pack	
ES1WH	14mm	4	
For use bety	veen accessorv	boxes	

A range of standard and screened options, including adjustable depth boxes that are particularly suitable for data or 4mm² power cable.

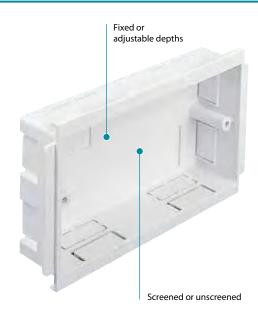
Product information

- Accept standard UK accessories
- Standard screw fixing centres
- · Adjustable depth
- Part M compliance (see page 106)



Boxes for UK accessories

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



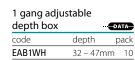




2 gang accessory box		
code	depth	pack
ESSB2WH	30mm	10









2 gang adjustable depth box			Α
code	depth	pa	acl
EAB2WH	32 – 47m	nm	

 $\rm EAB1$ and $\rm EAB2$ are fully adjustable to 47mm. Please see page 311 for more information.



1 gang acce *Screened	•	X DATA
code	depth	pacl
ESSB1SWH*	30mm	20

*Screened boxes supplied complete with earth terminal



2 gang accessory box		
	DATA	
depth	pack	
30mm	10	
	depth	

*Screened boxes supplied complete with earth terminal



1 gang accessory plate	DATA
code	pack
ESSP1WH	10



2 gaing accessory	
plate	DATA
code	pack
ESSP2WH	5



A range of trunking accessory boxes and mounting plates that accept international standard accessories

Product information

- MTOP10 and 20 and ETOP10, 20 and 30 plates accept Legrand's 45mm range of outlets
- MTOP11 and 21 and ETOP11, 21 and 31 plates are for Ave sockets
- ETOP180 accepts standard US and international outlets



WH

WH: White

Boxes and plates for International accessories

Colour options: optional colours and finishes are available but these may be subject to minimum quantity orders and longer lead times. For more information contact the Technical Team on +44 (0)1424 856688.



1 gang 45mm accessory plate

code	aperture	pack
ETOP10WH	45 x 45mm	20
FTOP11WH	50 v 45mm	20



2 gang 45mm accessory plate

code	aperture	pack
ETOP20WH	90 x 45mm	15
ETOP21WH	100 x 45mm	10



3 gang 45mm

accessory	Jiale	
code	aperture	pacl
ETOP30WH	135 x 45mm	10
ETOP31WH	150 x 45mm	10



Duplex 83.5mm

code	depth	pack
ETOP180WH	2mm	15

ETOP faceplates can be

inserted directly into ETL1 covers without the need for an accessory box



1 gang surface mount outlet plate

mount outlet plate		
code	aperture	pack
MT0P10WH	45 x 45mm	30
MT0P11WH	50 x 45mm	30



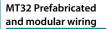
2 gang surface

mount outlet plate		
code	aperture	pack
MT0P20WH	90 x 45mm	20
MT0P21WH	100 x 45mm	20



1 gang plates require ESSB1 boxes.

2 gang plates require ESSB2 boxes.



For further information about our fully pre-wired, pre-tested and assembled accessories, please refer to page 230.





1 gang schuko

accessory box		
code	depth	pack
ESSBU1WH	40mm	10



2 gang schuko accessory box

code	depth	pack
ESSBU2WH	40mm	5
LUUDUZVVII	4011111	



Box for accessory plates

code	depth	description	pack
ETOB10WH	34mm	for ETOP10 plate if required	1 1
ETOB20WH	34mm	for ETOP20 plate if required	1 1
ET0B30WH	34mm	for ETOP30 plate if required	1 1
ETOB180WH	1 34mm	for ETOP180 plate in USA	1



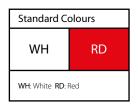
A range of products designed to British Standard regulations, specifically suited for wiring fire alarm systems and for protection against fire.



Callmaster accessory boxes are designed for emergency applications including call points, smoke and heat detectors, panic alarms, warning lights, sounders and emergency stops.

Product information

- Callmaster accessory boxes come complete with both internal pot retainers for mineral insulated (MI) cables and cable clamps included for use with conventional and fire performance cable
- No need for cable glands and shrouds
- · Available with one or two entries for terminal or through wiring
- Suitable for single or twin cable runs to each entry
- Compatible for use with MMT2 red or white mini trunking



Frunking and fittings



Mini-trunking			
code	size	pack	
MMT2RD	25 x 16mm	30 x 3m	
MMT2WH	25 x 16mm	30 x 3m	



Coupler		
code	description	pacl
TC2RD	MMT2	40
TC2WH	MMT2	40



End cap		
code	description	pack
TEC2RD	MMT2	100
TEC2WH	MMT2	100



Is available and particularly useful for
high security installations. For further
3 ,
information please contact our
technical team on +44 (0) 1424 856688.

Clear maxi and mini trunking





Internal bend		
code	description	pac
TIB2RD	MMT2	30
TIB2WH	MMT2	30



External bend		
code	description	pac
TEB2RD	MMT2	30
TEB2WH	MMT2	3(

1G accessory box – 2 entry

depth

35mm



Flat bend	l	
code	description	pack
TFB2RD	MMT2	30
TFB2WH	MMT2	30



Equal tee		
code	description	pack
TT2-2RD	MMT2	30
TT2-2WH	MMT2	30



1G accessor	y box – 1	entry
code	depth	pack
MCM10RD	35mm	5
MCM10WH	35mm	5
with earth ter	minal	

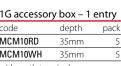
Double back entry (loop-in)

MDCRB2WH 50.8/60.3mm 10

fix. centre

34mm internal depth

 \emptyset cut out = 70mm





code

MCM20RD



20mm plain body cable glands		
code	cable dia.	pack
MCGP2WH	7-10.5mm	25
MCGP2AWH	4-7mm	25



Circular accessory box		
code	depth	pack
MCMR20RD	24mm	5
MCMR20WH	24mm	5
with earth terminal		



2MRB13WH U-2E

Plain bored circular boxes		
code	type	pack
2MRB2WH	Terminal-1E	20
2MRB3WH	Through-2E	20
2MRB4WH	Angle-2E	20
2MRB5WH	Tee-3E	20

For use with 20mm plain body cable glands and ø20mm conduit

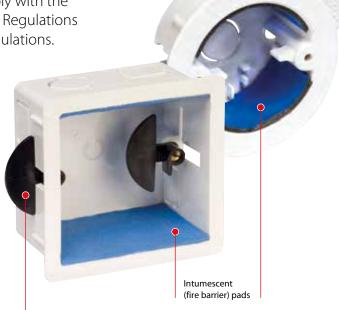


Flush mounted dry lining accessory boxes

Marshall-Tufflex dry lining boxes are available with Envirograf® intumescent (fire barrier) pads. With fire barrier pads fitted, boxes comply with the requirements of BS7671:2008 IEE Wiring Regulations and Document B of the UK Building Regulations.

Snap out clamps with size identification by colour:

Wall thickness adjustment	Clamp colour
1 - 9mm	Grey
6 - 14mm	White
18 - 25mm	Green
9 - 26mm	Black



Snap out clamps



1 gang 34mm internal depth		
code	adj.	pack
MDLB3FWH	1-9mm	20
MDLB1FWH	6-14mm	20
MDLB7FWH	18-25mm	20

Note: adj. = adjustment



2 gang 34mm internal depth		
code	adj.	pack
MDLB4FWH	1-9mm	10
MDLB2FWH	6-14mm	10
MDLB8FWH	18-25mm	10



pack
10





2 gang 46mm internal depth		
code	adj.	pack
MDLB30FWH	9-26mm	5



Double back entry (loop-in) 34mm internal depth

code	fix. centre p	
MDCRB2FWH	50.8/60.3mm	10

Ø cut out = 70mm

Acoustic hoods

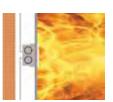
Solution

For information on acoustic pads please refer to page 227.

Problem



Without pads



With pads

In the event of a fire, the cover plate of a socket, switch or light fitting may sag and disintegrate, leaving a perfect escape route for a fire to travel up the cavity, into an adjoining room or ceiling. When Envirograf® pads are fitted, they will expand in the presence of heat and create an effective fire barrier. This solution has been specifically designed to help electrical contractors and building design professionals meet and comply with the current regulations.

Fire Protection is also available for other Marshall-Tufflex product ranges. Wraps can be supplied around PVC-U trunking or conduit systems and pillows to fill a trunking void. Many different shapes, sizes and thicknesses are available so for further details please contact our Technical Hotline on 01424 856688.



MT Supertube FR Plus

p220

LSOH Conduit for extreme temperatures

MT Supertube FR Plus is a LSOH, 3-layer heavy gauge conduit that has been specifically formulated to withstand temperatures up to 289°C. Comprising polyethylene internal and external layers over a continuous aluminium tube that provides additional mechanical strength.

MT Supertube FR Plus has excellent EMI/EMC screening performance and meets the requirements of LUL (London Underground Ltd) engineering standard 2-01001-002 issue A1, material classification EQ/1 9 equipment/limited and dispersed).



Internal Polyethylene layer

- · 20mm and 25mm
- · LSOH conduit with excellent screening performance
- Suitable for rail, marine and tunnel applications
- Available in continuous lengths of up to 100 metres, meaning fewer fittings per installation
- · Longer lengths also prevent ingress of water
- · Extra security
- Suitable for in-screed applications
- Withstands temperatures from −40°C to +289°C
- Nail penetration: MT Supertube FR Plus, complies with requirements for BS 7671, BS 8436 and BS EN 61386

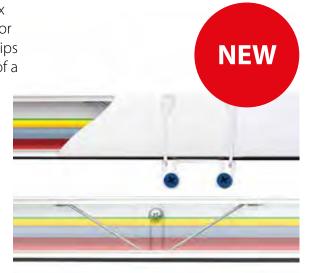


For product ordering details, please see page 220

To comply with the latest fire regulations, Marshall-Tufflex supply a range of Firefly fire clips to secure cables within or outside of mini trunking, maxi trunking or conduit. The clips are designed to prevent cables from falling in the event of a fire, helping to keep escape routes free and accessible.

Product information

- Fire safety clips to comply with BS 5839-1
- For use within mini trunking, maxi trunking and conduit
- Spring loaded design for easy installation or removal of cables
- Designed for quick installation and to maximise internal trunking space
- Internal version to fit within trunking prior to cables being installed
- External version to retrofit onto existing installations
- Melt point over 1000°C
- Kits available including all required fixings/screws ready for installation
- · Independently tested and certified by an accredited test house
- Patent applied for





Fire clip internal MMT2			
code	trunking size	pack	
ECMMT2	25 v 16mm	100	



Fire clip internal MMT3 code trunking size pack FCMMT3 38 x 16mm



Fire clip internal MMT4 code trunking size pack FCMMT4 38 x 25mm



Fire clip internal MMT5 code trunking size FCMMT5 50 x 25mm



Fire clip	internal MMT	5
code	trunking size	pack
FCMMT6	38 x 38mm	100



Fire clip internal MTRS50 trunking size FCMTRS50 50 x 50mm



Fire clip external MMT2 code trunking size FCXMMT2 25 x 16mm 100



Fire clip external MMT4 trunking size FCXMMT4 38 x 25mm



Fire clip internal kit - masonry

code	size kit cont	ents*
FCKMMMT2	MMT2	200
	(25 x 16mm)	
FCKMMMT4	MMT4	100
	(38 x 25mm)	



Fire clip internal kit - cavity

code	size	kit conten	ts*
FCKCMMT2	MMT	2 1	00
	(25 x	16mm)	
FCKCMMT4	MMT	4	50
	(38 x	25mm)	



Fire clip external kit - masonry

code	size	kit contents
FCKXMMN	/IT2 MM1	Γ2 100
	(25 x	: 16mm)
FCKXMMN	/IT4 MM1	Γ4 50
	(38 x	: 25mm)



Fire clip external kit - cavity

cavity			
code	size	kit conte	nts*
FCKXCMMT2	2 MM	Γ2	50
	(25 x	: 16mm)	
FCKXCMMT ⁴	4 MM	Γ4	50
	(38 x	25mm)	



Fire clip 20mm

round conduit	
code	pack
FCCR20	100



Fire clip 25mm

round conduit	
code	pack
FCCR25	100

*Kit contents

Please note: the quantity stated refers to the number of fire clips within the kit, each kit also contains the appropriate number of screws.

Each Masonry kit is supplied with: Masonry screws, washers and 1 x Ø4mm drill bit

Each Cavity kit is supplied with: Cavity fixings and screws



240 | Customer services and technical support

Technical support



Our experienced Technical Team can advise on a wide range of solutions and technical issues, product standards, data cabling control and Parts L and M compliancy.

The team are heavily involved with the design and manufacture of the Marshall-Tufflex product ranges which enables us to deliver high quality innovative products to the market.

We pride ourselves on providing and supplying our customers with specialist solutions to suit a variety of needs. Our Technical Team are able to help and support the design and manufacture of these custom products where possible.

The team's expertise enables them to provide quotations from as little as a floor plan drawing to create a detailed quotation of our specialist solutions. We aim to complete all standard quotes within 1 working day, although more complex quotations such as 'take offs' can take longer.

Contact our Technical Services team on +44 (0)1424 856688 or email technical@marshall-tufflex.com

Award winning customer service

Our Customer Service Team are on hand to advise on stock availability, lead times and delivery schedules.

In 2016 Marshall-Tufflex were proud to be shortlisted in the Best Customer Service and Best Overall Supplier categories at the prestigious Electrical Wholesaler Awards.

Contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Same day collection*



Our popular same day collection service gives our customers an unrivalled two-hour turnaround on product orders, allowing collection from our dedicated points in Manchester and London. Orders can also be collected next day from our Hastings depot.

Manchester: Europa Trading Estate, Stoneclough Road, Radcliffe, Manchester M26 1GG **London**: 101c Blackhorse Lane, London E17 6DJ

- Orders can be collected two hours after order placement from Manchester and London.
- Orders placed by 3.30pm will be available for collection until 5.30pm.
- Orders received by 5pm will be ready for collection from 7am the following day.



Hastings: 55-65 Castleham Road, St Leonards-on-Sea TN38 9NU

- Orders placed by 12.30pm can be collected next day from our Hastings depot.
- * Subject to stock availability

To arrange a collection, contact our Customer Services team on +44 (0)1424 856600 or email sales@marshall-tufflex.com



Follow us on Twitter @MTufflex

TECHNICAL INFORMATION

This information is intended to provide the specifier or contractor with guidance on all aspects of Marshall-Tufflex cable management products, from specification to installation.



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PVC-U material data

Marshall-Tufflex cable management products are manufactured in Extra Super High Impact PVC-U grade material, capable of withstanding the most hazardous conditions on site and which exceeds the most stringent requirements of the British Standards.

Characteristics

Specific gravity		1.42
Co Efficient of Linear Expansion		7 x 10 ⁻⁵ /m/°C
Water Absorption		Negligible
Electric Strength		To the requirements of BS 4678, BS EN 50085
Fire Performance	BS 476 PT6 & PT7 BS 4678 BS EN 50085 UL94 BS EN 61386-1 BS 4607	PASS PASS PASS V-0 @1.6mm PASS PASS
Oxygen Index		42%
Tensile Strength		492/562 kg/cm ²
Insulation Resistance		To the requirements of BS 4678, BS 4607, BS EN 50085, BS EN 61386-1
Chemical Resistance		See below
Vicat Softening Point (conduit & trunking)		80°c BS EN ISO 306
Vicat Softening Point (moulded fittings)		76°c BS EN ISO 306

Chemical resistance

The material is virtually unaffected by solutions of inorganic acids, alkalis and salts and is resistant to many organic chemicals. It may be softened by some organic materials such as ketones and aromatic compounds. It will not corrode. See Chemical Resistance table on page 243 for further details.

Fire resistance

The material used in Marshall-Tufflex conduit and trunking are self-extinguishing and comply with the requirements of BS 476 Parts 6 and 7 and BS 4678. Non-flame propagating to BS EN 50085 and BS EN 61386-1. (See Characteristics table above)

Thermal properties

Marshall-Tufflex conduit and trunking is designed to accommodate variations of ambient temperature equating to 5.25mm/3m for a temperature rise of 25°C.

Operating temperatures: -5° C to $+60^{\circ}$ C.

Thermal conductivity: 0.19 w/m/°C.

Impact resistance

High impact resistance. The material is formulated to comply with the -5°C clause of BS 4678 Part 4 (1982) Cable Trunking Standard and the -5°C Heavy Gauge Requirements of BS EN 61386-1.

Standards

Trunking systems are manufactured to comply with the requirements of BS 4678-4:1982 and BS EN 50085-1: 2005+A1:2013 where applicable. Conduit systems comply with the requirements of BS 4607-5: 1982+A3:2010 and BS EN 61386-1:2008.

Polycarbonate material data

Chemical resistance

Polycarbonate is resistant to most mineral and organic acids, a number of fats and oils, saturated aliphatic and aromatic hydrocarbons and alcohols, with the exception of methyl alcohol. It is not resistant to alkalis, ammonia gas and its solution or to amines.

Vicat softening point – ISO 306	VST/B 145°C
Flammability to UL94 @ 1.5mm	94V-2
Flammability – oxygen index	35%
Density	1.2g/cm3
Water absorption (in water)	0.35%

ABS high impact FR material data

Fire Retardant (FR) ABS has a good chemical resistance to inorganic salt solutions, alkalis, mineral acids (except strong oxidising acids) and some mineral, vegetable and animal based oils. It is attacked by organic solvents such as alcohols, esters, ketones and ethers.

Characteristics

Vicat softening point	ISO 306	96°C
Density	1.18g/cm ³	
Material		UL listed
Fire performance	BS 4678 BS EN 50085 UL94	PASS PASS V-O @ 1.6mm
Water absorption (in water)	DIN53495/L	0.3%

Aluminium material data

Grade HE9TF: Screen Insert.
Grade 6063T5: Series 2 PowerPole and PowerPost, Bench Trunking Aluminium, Sterling Profile Aluminium, XL Aluminium, Twin Plus Aluminium.
Grade 6060T5: Elegance 170.
Tensile strength: 190n/mm²
Co Efficient of linear expansion: 24 x 10-6/m/°C.
Thermal conductivity: 120w/m/°C.

PVC-U chemical resistance table

The resistance of unplasticised PVC–U to a wide range of chemicals is listed in the following table.

The symbols used to denote performance are as follows:
√ Satisfactory

- # Some attack or absorption: the material may be considered for use when alternative materials are unsatisfactory and where limited life is acceptable. When PVC is to be used with such chemicals, full scale trials under realistic conditions are necessary.
- ≈ Unsatisfactory: so rated because of decomposition, solution, swelling loss of ductility etc, of the samples tested.

For clarification and for details of resistance to other chemicals please call our Technical

Team on +44 (0)1424 856688.

Note: To determine the suitability of PVC-U for external applications we strongly recommend you contact our Technical Team on +44 (0)1424 856688.

Chemical	Concentration	Unplasticised PVC		
Chemical	Concentration		60°C	
acetaldehyde	40% aq. solution	√	≈	
acetic acid	60% aq. solution	$\sqrt{}$	$\sqrt{}$	
acetic anhydride		≈	≈	
acetone	Traces	≈	≈	
alcohol, ethyl	40% w/w water	\checkmark	#	
alcohol, isopropyl		√,	$\sqrt{}$	
alcohol, menthyl	6% aq. solution	V		
	100%	\checkmark	#	
aliphatic hydrocarbons		√	√	
aluminium chloride		\checkmark	$\sqrt{}$	
aluminium hydroxide		$\sqrt{}$	$\sqrt{}$	
ammonia	0,88S.G., aq solution	$\sqrt{}$		
	Anhydrous gas	≈	≈	
	Anhydrous liquid	≈	≈	
ammonium chloride		√	√	
ammonium hydroxide		√	$\sqrt{}$	
aniline		≈	≈	
animal oils		\checkmark		
aqua regia	Dilute	\checkmark		
	Concentrated	√	≈	
barium sulphate		$\sqrt{}$		
beer		√		
benzene		≈	≈	
benzoyl chloride		≈	≈	
borax		\checkmark		
boric acid		√	√	
brine		\checkmark		
bromide	Traces, gas	#	≈	
	100% (dry gas)	≈	≈	
	Liquid	≈	≈	
calcium chloride	Aq. solution		√	
	20% in methyl alcohol	√		
calcium hydroxide		√	√	
calcium hypochlorite		\checkmark	√	
carbon dioxide		\checkmark	√	
carbonic acid		\checkmark		
carbon monoxide		√	-√	
carbon tetrachloride		#	≈	
castor oil		√		
chloric acid		\checkmark		
chlorine	100% (dry gas)	\checkmark	#	
	10% (moist gas)	#		
chlorine water	Sat. solution	#	#	
chloroform		≈	≈	
chrome alum		√	√	
chromic acid	Plating solution	$\sqrt{}$		

Chemical	Concentration	Unplasticised PVC		
CHemical	Concentration	20°C	60°C	
cider		$\sqrt{}$		
citric acid		√	√	
copper chloride		\checkmark		
copper cyanide		√	√	
copper nitrate		$\sqrt{}$	$\sqrt{}$	
copper sulphate		\checkmark	$\sqrt{}$	
cyclohexanone		≈	≈	
detergent, synthetic	All concentrations	\checkmark	$\sqrt{}$	
developers, photogi	raphic	\checkmark		
dextrin		\checkmark	$\sqrt{}$	
dextrose		$\sqrt{}$	$\sqrt{}$	
diazo salts		√	√	
dichlorodifluoromet	hane	\checkmark		
diethyl ether		≈	≈	
emulsifiers	All concentrations	\checkmark		
emulsions, photogra	aphic	\checkmark	$\sqrt{}$	
ethyl acetate		≈	≈	
ethylene glycol		\checkmark		
ethylene oxide		≈	≈	
fatty acids		\checkmark	$\sqrt{}$	
ferric chloride		\checkmark	$\sqrt{}$	
ferric nitrate		\checkmark	√	
ferric sulphate		$\sqrt{}$		
ferric ammonium cit	rate	√	√	
ferrous chloride		\checkmark	$\sqrt{}$	
ferrous sulphate		√	√	
fixing solution, phot	ographic	\checkmark		
fluorine		#	#	
formaldehyde	40% w/w water	\checkmark	$\sqrt{}$	
formic acid	50% solution	\checkmark	#	
	100% solution	\checkmark	≈	
fructose		\checkmark		
fruit pulp		\checkmark	$\sqrt{}$	
glucose		\checkmark	$\sqrt{}$	
glycerol		$\sqrt{}$		
grape sugar		\checkmark		
heptane		√	√	
hydrobromic acid	100%	\checkmark	√	
hydrochloric acid	22% aq. solution	√	√	
,	concentrated	√	√	
hydrochloric acid	40% ag. solution	√ √	#	
,	60% ag. solution	#	≈	
	concentrated	≈	≈	
hydrogen bromide	anhydrous	√	√	
hydrogen chloride	anhydrous	√	√	
hydrogen flouride	anhydrous	√	√	
hydrogen peroxide	3% (10vol)	√	√ √	
, a. oge per om ae	12% (40 vol)	√ √	√ √	
	30% (100 vol)	√ √	√ √	
	90% and above	√ √	√ √	
hydrogen sulphide		√	√	
iodine	solution in			
	otassium iodide	≈	≈	
lactic acid	10% ag. solution	√	√	
	100%	v ≈	≈	
lanoline		$\sqrt{}$		
		٧		

Chomisal	Consontration	Unplasticised PVC		
Chemical	Concentration	20°C	60°C	
linolectic acid		√	√	
linseed oil		$\sqrt{}$	$\sqrt{}$	
magnesium hydroxi	de	√		
maleric acid	50% aq. solution concentrated	$\sqrt{}$	#	
metallic soaps (wate	r soluble)	$\sqrt{}$		
methyl bromide		≈	≈	
methyl chloride		≈	≈	
methyl cyclohexano	ne	≈	≈	
methyl ethyl ketone		≈	≈	
methyl isobutyl keto	one	≈	\approx	
methylated spirit		$\sqrt{}$		
methylene chloride		≈	\approx	
milk		$\sqrt{}$	$\sqrt{}$	
mineral oil		$\sqrt{}$		
mixed acids	(sulphic/nitric			
	various proportions)	#	≈	
molasses		\checkmark	$\sqrt{}$	
naptha		$\sqrt{}$	$\sqrt{}$	
napthalene		≈	≈	
nicotine		√		
nitric acid	5% aq. solution	√		
	50% aq. solution	$\sqrt{}$	#	
nitrobenzene		≈	≈	
oleic acid		√	√	
oxalic acid		$\sqrt{}$	√	
oxygen		√	√	
ozone		√	√	
paraffin		- √	√	
pentane		√	·	
petrol		√	√	
phosphoric acid	30% ag. solution	√	√ √	
p	95% aq. solution	√	√	
photographic develo	opers	√	√	
potassium bromide		√		
potassium carbonat	e	√	√	
potassium cyanide		√	√	
potassium ferricyani	de	- √	√	
potassium			•	
hydroxide	10% aq. solution	√	√	
.,	concentrated	√	√ √	
potassium hypochlo	rite	√	√	
potassium permang		- √	√	
propane		√ √	·	
propylene glycol		√ √	√	
propylene oxide		v ≈	v ≈	
saccharose		~ √	~ √	
sea water		√ √	√ √	
silver nitrate		√ √	√ √	
		√ √	√ √	
soap solution sodium bicarbonate		v √	√ √	
sodium bicarbonate				
bisulphite		$\sqrt{}$	$\sqrt{}$	
sodium borate		√		
sodium bromide		$\sqrt{}$	$\sqrt{}$	
sodium carbonate		$\sqrt{}$	$\sqrt{}$	

Chemical	Concentration	Unplas PV	ticised ′C
errennea.		20°C	60°C
sodium chlorate		$\sqrt{}$	
sodium chloride		\checkmark	$\sqrt{}$
sodium cyanide		√	
sodium ferricyanide		\checkmark	$\sqrt{}$
sodium ferrocyanide	9	\checkmark	
sodium fluoride		\checkmark	
sodium hydroxide	40% aq. solution	√	
	concentrated	\checkmark	$\sqrt{}$
sodium hypochlorite	e 15%CI	\checkmark	$\sqrt{}$
sodium hyposulpha	te	\checkmark	
sodium nitrate		\checkmark	$\sqrt{}$
sodium peroxide		\checkmark	
sodium silicate		\checkmark	$\sqrt{}$
sodium sulphate		√	
sodium sulphide	25% aq. solution	\checkmark	$\sqrt{}$
	concentration	\checkmark	$\sqrt{}$
sodium sulphite		√	
soft soap		\checkmark	$\sqrt{}$
surface active agent	s All concentrations	√	$\sqrt{}$
(emulsifiers, synthet	ic detergents and we	tting age	ents)
starch		\checkmark	$\sqrt{}$
stearic acid		\checkmark	
sucrose		\checkmark	$\sqrt{}$
sulphur	Colloidal	$\sqrt{}$	$\sqrt{}$
sulphur dioxide	Dry	\checkmark	$\sqrt{}$
	Liquid	#	\approx
sulphuric acid	80% aq. solution	$\sqrt{}$	
	90% aq. solution	\checkmark	#
	Fuming	≈	\approx
sulphurous acid	10% aq. solution		
tallow		√	√
tanning extracts		\checkmark	
tartaric acid		$\sqrt{}$	$\sqrt{}$
transformer oil		$\sqrt{}$	
trichloroethane		\approx	\approx
trichloroethylene		≈	≈
turpentine		\checkmark	$\sqrt{}$
vegetable oils		√	$\sqrt{}$
vinegar		\checkmark	
water		\checkmark	
wetting agents	All concentrations	√	
wines and spirits		√	
xylene		≈	≈
zinc carbonate		$\sqrt{}$	
zinc chloride		√	√
zinc sulphide		$\sqrt{}$	$\sqrt{}$
	ine sui prinae		

Technical Information

Power and data segregation

It is important when installing power and data cables in the same installation that the installation complies with the relevant standard. If any conflicts in separation distances arise then the greater separation distance must always apply.

To comply with the correct separation distance between power and data cables please refer to BS EN 50174-2:2009+A2:2014 section 6.

There are a number of factors that will affect the separation distance of power and data cables these are listed below:

- · Total number of power circuits
- The total load on the power circuit
- The type of data cable being installed
- The installation method of the power and data cables

Every installation is different so it is important to refer to the installation standard for each installation to ensure compliance.

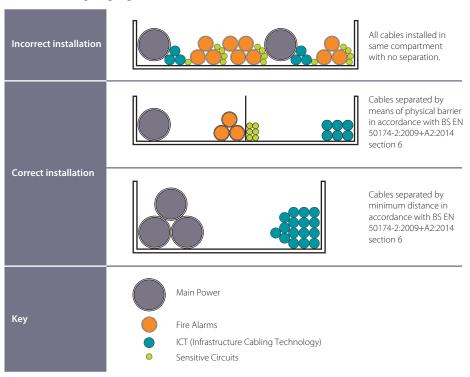
Types of data cable –different categories of cable

Data cables are classified in a number of different categories such as Cat 5e and Cat 6 etc. Generally speaking the higher the category number the higher the performance specification. Data cable is backwards compatible so a Cat 6 installation will always perform to a higher specification than a Cat 5 installation. The basic principle of data cable is very similar across all the different categories and is based on 4 pair twisted cable which is shielded to protect from external EMI and alien or cross talk interference from adjacent cables.

45% Cable capacity

It is important to follow the Wiring Regulations when installing cables in trunking. By following the Wiring Regulations you minimise the potential of heat rise and cable damage and maintain data throughput when installing new circuits. For further information on trunking cable capacity and grouping factors please refer to the latest BS7671 Wiring Regulations.

Understanding segregation methods



Data cable comparison table

Data Cable type	Frequency	Speed	Notes
Cat 5e	Up to 100MHz	Up to 1000MBps	Cat 5e has its limitations and will not be able to support emerging 10GBase-T Ethernet
Cat 6	Up to 250MHz	Up to 10GBps	Cat 6 will run at a much higher performance than Cat 5e supporting more than double the speed and frequency, running to a much tighter specification.
Cat 6a	Up to 500MHz	Up to 10GBps	Cat 6a is designed to support 10GBase-T over a maximum distance of 100 metres.
Cat 7	Up to 600MHz	Up to 10GBps	Cat 7 and Cat 7a data cables are shielded including both the individual cables and the overall cables
Cat 7a	Up to 1000MHz	Up to 10GBps	the individual capies and the overall capies being screened.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.0
Stranded PVC power	2.5mm ²	11.9
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

TECHNICAL INFORMATION

Installation guidance Laying vs pulling

It is important to consider the installation method prior to installing data cables. Incorrect method or poor installation techniques can alter the cable characteristics and degrade the overall specification of the data cable. When pulling cables into trunking systems it is important to note the manufactures maximum pulling force as this can reduce the minimum bend radii of the data cable. Laying data cables into a trunking system ensures that minimum bend radius can be achieved and that the data cables installed complies with the required specifications for the installation.

Types of screening available Materials of screening

The shielding of data cables is important as this stops the signal generated within the data cable radiating and interfering with signals in nearby cables and circuitry. The shielding also protects the signal from surrounding cables and other external influences. The two main types of shielding material are metallic foil and metallic braid. A number of factors should be considered before selecting the type of shielding for an installation.

- The flexibility of the data cable
- The mechanical strength
- •The required shield effectiveness
- Ease of stripping and terminating

Once the correct type of shielding has been selected it is important that the shielding is bonded correctly for it to be effective in protecting against signal interference.

Data cable types Advantages/disadvantages Advantages

- Screened cables offer better protection against electromagnetic interference compared to unscreened data cables.
- Screened and unscreened cables work fine at 1Gigabit Ethernet data rates but screened data cables will outperform at data rates such as 10Gigabit due to their ability to support higher frequency transmissions

Disadvantages

 Unscreened data cables require a physical barrier and or separation distance between power cables must be increased.

Data aperture sizes – LJ6C and Euro modules

LJ6C data modules are suitable for use in trunking systems, floor boxes or any systems that has an industry standard LJ6C aperture. The aperture size for the LJ6C module is 22mm x 37mm but may differ slightly between manufacturers. The Euro data modules have a slightly larger aperture at 25mm x 50mm. Coordinating accessory plates can accommodate one or multiple Euro data modules.

PVC-U vs Aluminium trunking Advantages/disadvantages

PVC-U trunking systems are low cost, light weight and can be easily fabricated whilst on site, however PVC-U is a nonconductive material so offers no protection against EMI. When using a PVC-U trunking for data installation it is important to segregate and screen the data cables from power and control cables.

This can be easily overcome by either using our range of conductive copper sprayed multi compartment trunking systems or by using the steel screening divider. Steel screening dividing strips can be easily retro fitted to an existing PVC-U trunking installation.

Aluminium trunking systems are lightweight and easy to handle and have high impact and mechanical strength compared to a PVC-U trunking installation. Aluminium trunking systems offer great protection against EMI especially at higher frequencies. Both material options aid and support compliant installations.

GRP ladder and tray

Material

GRP (Glass Reinforced Polyester) has, good stability to UV, great mechanical strength and is 40% lighter than steel. GRP is a non-conductive insulating material, resistant to temperatures from -800C to + 1400C and has excellent resistance to fire and corrosion being self-extinguishing and zero halogen.

Installation

Expansion/contraction

Bases come with

Fitting

- Secure base at centres of 1500mm apart.
- Supports should be position at a maximum of 300mm from the start or finish of a run.
- Place the projecting lip of the next base into previous base, maintaining joint for expansion.

Bend radius control

Hot press moulded technique of manufacture permits the forming of 3000mm base/covers and a large range of fittings with various bend radius controls.

Covers

Covers should overlap the base joint by at least 300mm to ensure maximum strength. Secure to the base by four clips, two required at 50-100mm from each end

Loading characteristics

- Defection <5mm (1/300).
- Coefficient of safety >1.7 (in accordance with IEC 61537) using the interlocking and self-adjustable coupling without fasteners.
- Loading diagram details (below) in accordance with IEC 61537, at an ambient temperature of 25°C.

Approvals

Mechanical Behaviour

- · Breaking point to NEMA FG1
- Tensile strength at break point to ISO 527-5
- Modulus of elasticity to ISO 527-5
- · Accelerated ageing to ISO 4892-2

Electrical behaviour

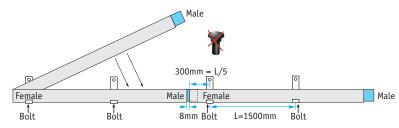
- Surface resistivity to IEC 6079-0
- Breakage voltage to IEC 60243-1
- Comparative tracking index IEC 60112

Density to DIN 53479

- Linear Thermal Dilatation to DIN 53752
- Water Absorption to ISO 62

Fire Behaviour

- Inflammability to IEC 60695-2-12/
- Spread of flame to BS 476 part 7 class 2/ ASTM E84 (Up to Class 1 on request)
- Fire propagation to BS 476 Part 6
- Smoke emissions to BS 6853 App B53
- Fire standard to DIN 4102



Positioning couplings without screwing junctions

- Every junction fitting should have accompanying support within 200mm.
- All bases and fittings must be fixed laterally with 4mm clearance holes on each side of support.
- Built-in, self-adjusting, interlocking couplers automatically provide an expansion joint for thermal movement.
- Can be drilled with standard power tools.
- When cutting by hand, a tungsten, carbide-tipped, heavy duty cross-cut saw is recommended.
- Power disc cutting equipment makes this task easier but should be done in an open air environment.

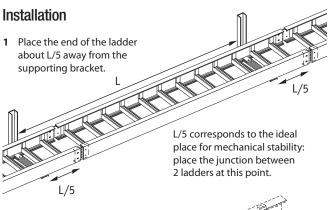
GRP ladder and tray - continued

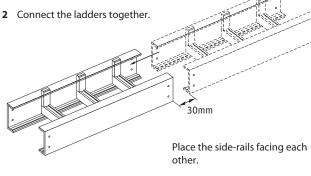
GRP cable ladders pultruded

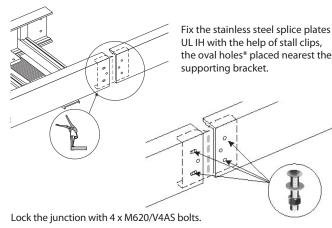
Resin types (all zero halogen)

Polyester (standard)	good all round performance, mechanical strength, corrosion
	resistance, fire behaviour, temperature rating
Acrylic (on request)	excellent resistance to fire in a corrosive environment
Vymilester (on request)	highly resistant to a specific range of chemical agents (H2SO4HC1)
Carbon loaded polyester (on request)	anitistatic properties for highly explosive atmospheres

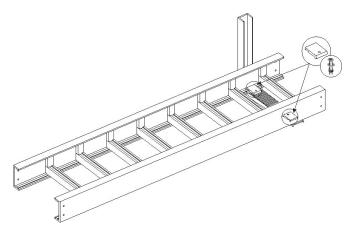
Alternatively for specific projects we will define a solution to meet your needs.



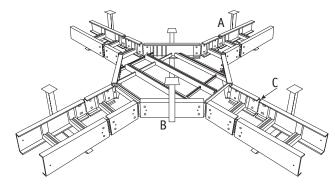




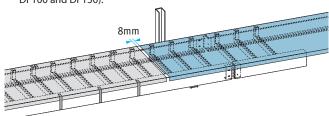
(*) The splice plates UL IH are pre-punched with 2 holes \emptyset 8mm and 2 oval holes 20 x 8mm in order to assure a solid fixing and to allow the expansion of the GRP material.



4 Follow the installation procedure.



- A All fittings must be supported at every cable entry.
- B Add a central support for all fittings with radius greater than 250mm and/or with width greater than 400mm.
- C Lock systematically each splice plate UL IH with 4 M620/V4AS bolts on fittings extremities.
- 5 Fix the cover with clips made of stainless steel 316 (ref.DF50, DF80, DF100 and DF150).



Under normal conditions use 3 clips alternatively on each side per 3 metres of ladders.

Under extreme conditions (strong winds > 60 km/h) use 7 clips per 3 metres of ladders.

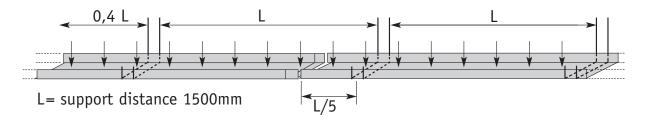


GRP ladder and tray - continued

Standard span pressed tray

Load characteristics

Coefficient of safety > 1.7 (in accordance with IEC 61537) this data is given for ladders coupled with splice plates and bolts.

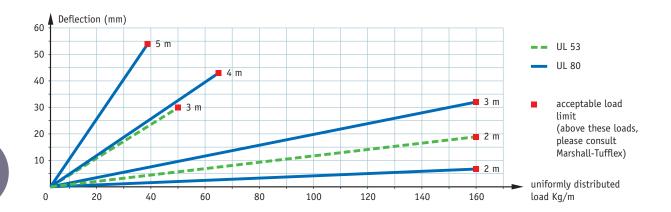


The deflection values are measured with the position of the junction between 2 ladders at a distance L/5 from a support. If this distance is not respected, it is necessary to raise the deflection values by about 30% when fully loaded.

Useful area Weight of Maximum admissable load kg/m (mm²) cables kg/m according to the distance between supports				upports				
				2m	3m	4m	5m	6m
UL53	150 – 300	4420 – 9520 =	250	160	50			
OL55	400 – 600	12920 – 19720 =	550	160	50			
UL80	150 – 300	7690 – 16840 =	450	160	160	60	30	
OL60	400-600	22940 – 35140 =	1000	160	160	60	30	

Optimal conditions, for cost reduction on your installation.

Series UL load diagram: supporting distances from 2 to 5m. For 100mm and 150mm wall height refer to Marshall-Tufflex.



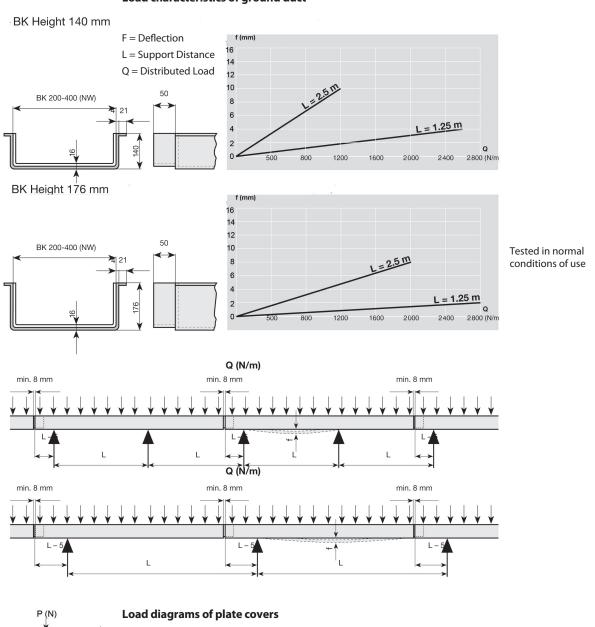
Localised loads

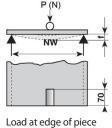
To be able to compare this to a uniformly distributed load it is necessary to double the value of the localised load. Example: A 60kg local load at the centre of a ladder with 3m of support distance. Equivalent load: $60 \times 2 = 120$ kg uniformly distributed along 3m (ie 40kg/m).

GRP ladder and tray - continued

GRP Ground Ducts

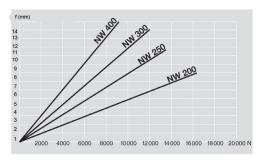
Load characteristics of ground duct

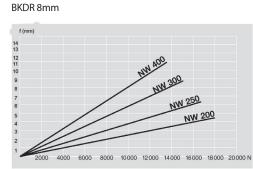




P = Load in N f = DeflectionNW = Nominal width BK

BKDR 5mm





Material

Electrogalvanised (ELECTROZINC/EZ)

A steel base coated with a zinc layer by electrolysis, by means of submerging the lengths in a bath composed of a zinc solution, in accordance with BS EN ISO 2081. Depending on the type of zinc layer, it shall have a different degree of protection on the steel, avoiding corrosion and enhancing the visual appearance of the length. This treatment is carried out once the length has been formed. The IEC 61537 Standard classifies the degree of resistance to corrosion of the system's components depending on the steel's electrolytic covering, belonging to Class 1 those with a minimum thickness of 5µm and to Class 2 those of 12µm. Marshall-Tufflex uses Class 2 as its standard material in order to guarantee the quality of its products against corrosion. This treatment is used in dry environments free of pollutants.

Hot Dip Galvanised Steel (HDG)

Laminated or rust removed galvanised after forming steel according to BS EN ISO 1461 Standard. The steel's protection is covered by a zinc coating which varies depending on the steel's thickness, offering a uniform covering. The zinc coating's thickness depends on the thickness of the base material. The IEC 61537 Standard classifies the resistance against corrosion of these galvanised steels as Class 5 for the covering of 45 µm, Class 6 for 55 µm, Class 7 for 70µm and Class 8 for 85µm. Hot dip galvanised steel is used in humid environments, granting a high protection during adverse atmospheric situations, light chemical situations, light marine situations and urban situations.

Stainless Steel AISI 316 (I316)

Denominated 14401 according to the numerical classification established by the BS EN 10088 Standard. Steel's protection happens due to the great affinity which metals such as chromium have with oxygen, which gives place to the creation of a protective chromium oxide layer which avoids the corrosion of iron. Type I316 stainless steels are similar to type 1304, but they contain a 2.5% of molybdenum which confers it a greater resistance to localised corrosion. It is ideal for use in very corrosive environments, even at high temperatures. Under special conditions, and always under order, there is the possibility of conducting a passivation process. Passivation is a treatment which enhances stainless steel's protection against corrosion by means of forming a relatively inert film on the surface of a material which

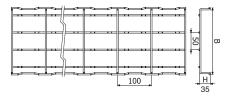
protects it against the action of external agents. The passivation film or layer does not allow these agents to interact, reducing or stopping the chemical reaction from happening.

IEC 61537 Standard classifies this steel's resistance to corrosion as Class 9B without the passivation treatment and as Class 9D with the passivation treatment.

Stainless Steel AISI 316L, denominated 14401 according to the numerical classification established by the BS EN 10088 Standard has the same characteristics regarding corrosion as steel AISI 316, but offers a higher degree of welding and easier forming of the lengths with a thickness of more than 6mm.

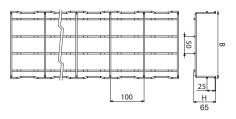
Dimensions

Height 35mm Standard Wire Basket



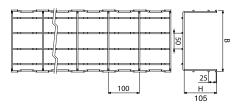
Height 65mm

Standard Wire Basket and Fast-Coupling Wire Basket

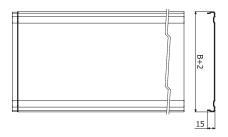


Height 105mm

Standard Wire Basket and Fast-Coupling Wire Basket



Cover



Working temperature

	Minimum working temperature	Maxiumum working temperature	According to Standard
Standard Wire Basket 35mm	-50°c	+150°c	IEC 61537
Standard Wire Basket 65mm	-50°c	+150°c	IEC 61537
Standard Wire Basket 105mm	-50°c	+150°c	IEC 61537
Fast-Coupling Wire Basket 65mm	-50°c	+150°c	IEC 61537
Fast-Coupling Wire Basket 105mm	-50°c	+150°c	IEC 61537

Resistance to corrosion

Atmospheric Corrosion

Atmospheric corrosion happens when metal is exposed to liquids, solids or gases, Humidity, salt corrosive gases and dirt are its main factors. Atmospheric corrosion takes place in open air conditions, areas with poor ventilation and marine environments.

Saline corrosion happens when a metallic surface is exposed to different saline concentration levels forming a galvanic pile. At times where the surface is exposed to the lowest degree of saline concentration this will then behave as an anode for the corrosion to take place.

Chemical Corrosion

Chemical corrosion happens when metal is directly exposed to chemical solutions. Depending on the concentration of the solution, contact time, cleaning frequency and ambient temperature the level of corrosion will be higher or lower.

Galvanic Corrosion

Galvanic corrosion is the most common type of corrosion, and happens when two different metals are in contact with one another. When two different metals come into contact a small galvanic par is created, as one metal acts as an anode the other acts as a cathode. The metal with the most negative reduction potential shall oxidise whilst the metal with the most positive charge shall have less corrosion.

Storage Conditions

The product must be stored in a dry and well ventilated area. The product must not be stored outside even in low humidity conditions.

Free Base Area

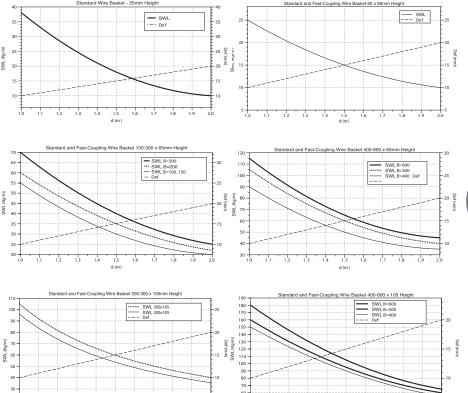
Base size	Classification	Free base area
60	Z	More than 90%
100	Υ	Over 80% and up to 90%
150	Υ	Over 80% and up to 90%
200	Υ	Over 80% and up to 90%
300	Υ	Over 80% and up to 90%
400	Υ	Over 80% and up to 90%
500	Υ	Over 80% and up to 90%
600	Υ	Over 80% and up to 90%

To show the installation designer the level of ventilation allowed for the cable tray, the IEC 61537 standard established that the manufacturer has to inform of the percentage of the base 'free' (without material, in solid cable trays this means the "degree of perforation").

Safe working load (SWL)

The safe working load (SWL) is the maximum load which can be applied during normal use, without danger. Therefore, the workload shall always be less than the SWL.

The SWL of our products are calculated in accordance with IEC 61537. For any further information contact our Technical Team in +44 (0)1424 856688.



Load table

Find out the load capacity of all our wire baskets.

We recommend that you plan for extra space in cable pathways during the initial installation to allow capacity for future cable additions.

For spacing factors please refer to current Wiring Regulations BS7671 and all current amendments.

			Weight kg/m		
MT Code	Description	System name	EZ	HDG	SS
MT2/3616	Basket 100x35mm		0.55	0.60	0.66
MT2/3617	Basket 150x35mm		0.69	0.73	0.72
MT2/3618	Basket 200x35mm		0.83	0.89	1.02
MT2/3619	Basket 300x35mm		1.18	1.39	1.39
MT2/3621	Basket 60x65mm		0.54	0.6	0.66
MT2/3622	Basket 100x65mm		0.78	0.83	0.96
MT2/3623	Basket 150x65mm		0.83	0.89	1.02
MT2/3624	Basket 200x65mm		1.08	1.15	1.32
MT2/3625	Basket 300x65mm	Standard Wire Basket	1.59	1.69	1.69
MT2/4407	Basket 400x65mm		1.93	2.05	2.05
MT2/4409	Basket 500x65mm		2.71	2.65	2.56
MT2/3626	Basket 600x65mm		3.12	3.05	2.95
MT2/4953	Basket 200x105mm		1.59	1.69	1.69
MT2/4959	Basket 300x105mm		1.93	2.05	2.05
MT2/4960	Basket 400x105mm		2.71	2.65	2.56
MT2/4961	Basket 500x105mm		3.12	3.05	2.95
MT2/6043	Basket 600x105mm		3.53	3.45	3.34
MT2/7389	Basket with fast coupling 60x65mm		0.54		
MT2/7248	Basket with fast coupling 100x65mm		0.79		
MT2/7249	Basket with fast coupling 150x65mm		0.84		
MT2/7250	Basket with fast coupling 200x65mm		1.09		
MT2/7251	Basket with fast coupling 300x65mm		1.60		
MT2/7394	Basket with fast coupling 400x65mm		1.94		
MT2/7395	Basket with fast coupling 500x65mm	Fast-Coupling Wire Basket	2.72		
MT2/7396	Basket with fast coupling 600x65mm		3.13		
MT2/7397	Basket with fast coupling 200x105mm		1.59		
MT2/7398	Basket with fast coupling 300x105mm		1.93		
MT2/7399	Basket with fast coupling 400x105mm		2.71		
MT2/7400	Basket with fast coupling 500x105mm		3.12		
MT2/7401	Basket with fast coupling 600x105mm		3.53		

TECHNICAL INFORMATION

EMC and Data

It is recommended to separate power and data circuits by a minimum of 20cm. (EN 50174-2)

Where power and data circuits must cross, this must be done at 90 degrees.
Wire Basket systems without electrical continuity do not protect against electromagnetic fields. Make sure electrical continuity is preserved by using the appropriate earth bonding accessories.

Electrical continuity

Our Fast-Coupling Wire Basket conforms to IEC 61537. The wire mesh basket has an impedance lower than:

- \bigcirc 50mΩ across the joint
- \bigcirc 5mΩ per metre in a straight section

Fire Resistance

Marshall-Tufflex and Basor Electric certifies that the wire basket installed with the below mentioned characteristics complies with Class E90 of function maintenances, in accordance with Standard DIN 4102, Section 12

This system incorporates Standard Wire Basket with a height of 65mm. This system uses Fast Fix Wall Bracket supports fixed to the wall and reinforced on the ceiling using the Variable Support Bracket, M8 Threaded Rod and M8 Nut on one side, as per the below image.



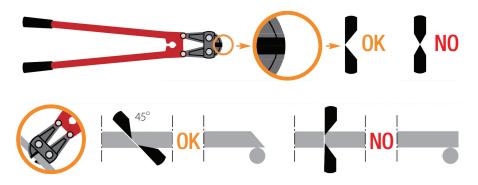
The distance between supports is of 1.2 m and the maximum load is of 10 kg/m.
The system may have one or two levels.

Earth bonding

For earth bonding requirements please refer to the current Wiring Regulations BS7671 and all current amendments.

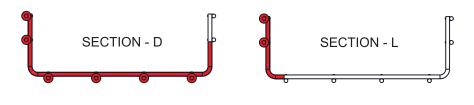
Cutting

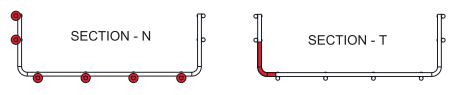
Always use asymmetrical cut wire cutters. Cut as close as you can to where horizontal and vertical rods cross each other, as shown.

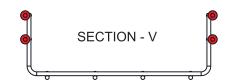


We recommend always placing the basket on a flat surface to make the cuts.

The below drawings show in red the section cuts that are needed for the bends, tees and changing levels as explained in the Installation section on pages 97-99.



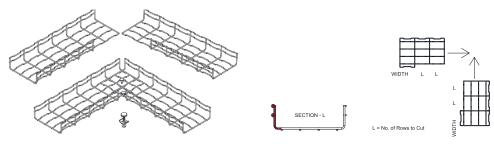




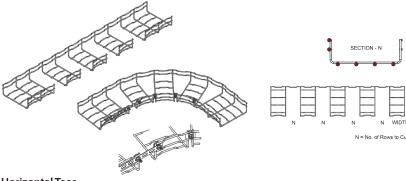
Installation

The following drawings show in red the sections that should be removed to make the associated join or bend.

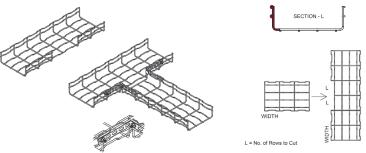
Horizontal Bend From Two Straight Sections



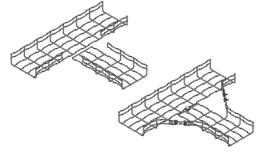
Horizontal Bends Long Radius – Right angle

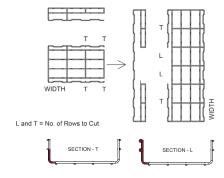


Horizontal Tees

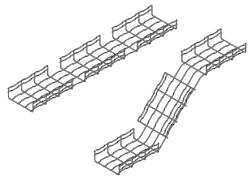


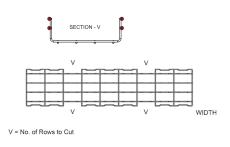
Tee with Large Radius

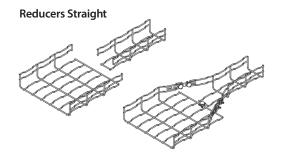


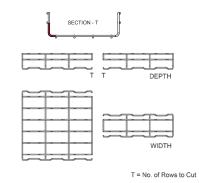


Vertical Inside and Outside Bends

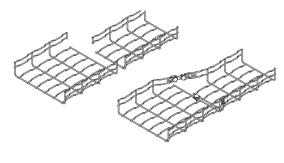


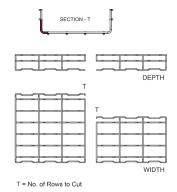




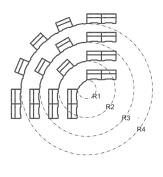


Reducers Left Or Right

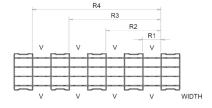




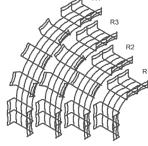
Vertical Bends











Radius	Radius diameter	Number of rows that will need to be cut
R1	64mm	1 row
R2	190mm	2 rows
R3	320mm	3 rows
R4	445mm	4 rows



MT32 Pre-wired underfloor power distribution

Singles Cabling System

Extension, Connection, Adaptor and Terminal Cables

Cable Type	6491B (HO1Z-R) to BS 7211 (LSOH)
Size	4.0mm ² x 3 (PE) or 4.00m ² x 4 (CE)
Connector Self Lock Retention	> 80N
Male/Female Connector Diameter	19.2mm
Terminal Block	6 x 4.0mm ²
Adaptor (4.0mm²)	20mm

Underfloor Distribution System

Conduit Assembly, Tap Off and Adaptor

, , , , , , , , , , , , , , , , , , ,		
Cable Type		6491X (BASEC BS6004 H07V-R)
Protective Earth (P.E)		4.0mm ² x 3 (Grey Plug)
Clean Earth (C.E)		4.0mm ² x 4 (Red Plug)
Protection: Conduit Asser	nbly	25mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)
Protection: Tap Off		20mm Steel flexible conduit (>1KN Tensile Load to BS EN 61386-23)

General Specification

Approvals: System	Designed to comply with BS 7671:2008 IEE Wiring Regulations
Approvals: Connector	Designed to comply with EN 61535:2009 (Fixed installation couplers for permanent connection)
Normal Voltage	250 volts
Frequency	50/60 Hertz
Volt Drop Line & Neutral Connector	1.0 mV/A/M
Volt Drop Line & Neutral	
(Flexible Cabling System) 2.5mm	19.0 mV/A/M
Volt Drop Line & Neutral (Underfloor) 4.0mm	12.0 mV/A/M
Connector Impedance	1.0m Ω/connector
Connector, Body Material	PA66 – GF25
Connector Colour Female	Black
Connector Colour Male	White
Compatibility	Keyed against incorrect insertion
Operating Temperature (Ambient)	-5°C to + 40°C
Safety	PE contact engages first
Degree of Protection	Engaged IP2XC

Installation

MT32 pre-wired socket range Fitting

- Plug in incoming pre-wired lead (from previous socket or distribution board) to appropriate connector mounted in socket assembly box.
- Connect selected pre-wired lead to outgoing connector mounted on opposite side of socket assembly box.
- Clip complete assembly into trunking compartment.
- When trunking cover is fitted, it should be slid between back box frame and the loosened accessory face plate.
- Front plate is then fully tightened down to clamp accessory in place.
- For pre-made close coupled assemblies, use lid spacer (ES1WH) between boxes.

MT32 system with non-Marshall-Tufflex socket assemblies Fitting

- For non-Marshall-Tufflex accessories, use pre-assembled outlet box unit.
- Connect cable tails to accessory in accordance with wiring regulations and fit accessory to back box.
- Connect pre-wired incoming and outgoing leads and fit to trunking (as above).
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Earthing requirements for the installation of equipment having High Protective/Conductor currents. BS 7671: 2008 Reg. 543.7

The scope of Reg. 543.7.1.203 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high integrity protective connection.

Singles Cabling System 4.0mm² Final Circuit

MT32 singles systems conform to the high integrity protective requirement by virtue of having a single copper protective conductor of 4mm², (Reg 543.7.1.203) with the protective conductor being enclosed throughout in trunking or flexible conduit to provide additional protection against mechanical damage.

Note: Different key ways apply between 2.5mm² and 4.0mm²



Powertrack

Powertrack is an underfloor busbar system rated at 63Amp maximum. It is available in Standard or CE (Clean Earth) versions.

Lengths

 Powertrack lengths of 1.2m, 1.8m, 2.4m and 3.6m with tap-off outlets at 300mm

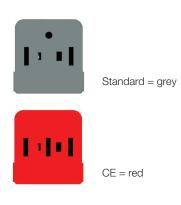
Safety

 Snap-fit feed units, couplers and tap-offs are key and colour-coded to avoid assembly errors.

Installation

- Lay out track lengths and feed unit as required to suit final assembly
- Position and secure the feed unit in place
- Carefully engage the first track length on to the feed unit socket
- Ensure the clip action is secure at the coupler and unit feed also that alignment is correct in laying the track length to the floor
- Secure the track length in place along its length at recommended spacing shown below using the brackets provided
- Additional track lengths can now be placed as below.
- Ensure the assembly is secure and prepare to make electrical connections

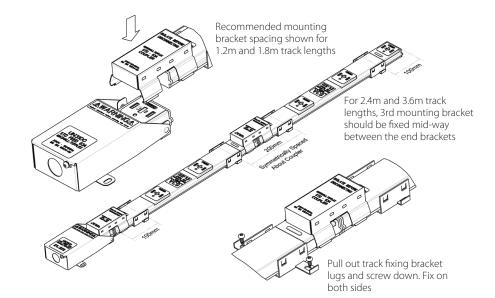
Please refer to the full installation instructions, EL182 available at www.marshall-tufflex.com or by contacting the Technical Team on +44 (0)1424 856688.

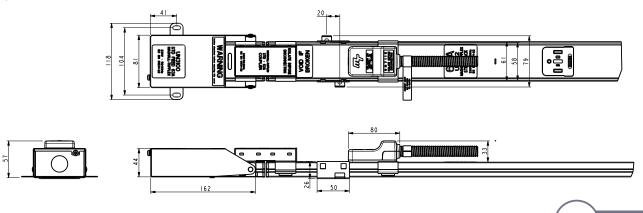


- A shutter is operated on insertion to prevent accidental contact.
- Avoid exceeding the maximum power rating of the track. This is ascertained by the maximum power requirement for each floor outlet box

Positioning

- For the most economic format, it is advised that Powertrack is arranged in parallel runs with powertrack feed units orientated to the incoming supply.
- For optimum layout flexibility, spacing should be a maximum of 5.5m between each length of track and 2.5m from the perimeter when using a standard 3m tap-off to a floor box.





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Product Information

Electrical Characteristics			
Rated Current		63	Amps
Rated Voltage		230	Volts
Frequency		50/60	Hz
Conditional Short Circuit Rating	(Protection device:BS1361 fuse)	16	KA
Conductor Resistance Line	(Frotection device.b31301 fase)	4.4	mΩ/m
& Neutral			
Volt Drops Line & Neutral	Powertrack	4.4	mV/A/m
	Feed Unit + Coupler	0.73	mV/A
	Tap-Off	11.0	mV/A
	4mm² Cable	ļ.	mV/A/m
	Coupler	1.5	mV/A
	Interlink Unit	4.5	mV/A
	16mm ² Cable (1.2m)	3.9	mV/A/m
Earth Fault Loop Impedance:	Line to Earth (Casing)	2.8	mΩ/m
	Line to Earth (Conductor)	3.2	mΩ/m
	Line to Earth (Conductor + Casing)	2.8	mΩ/m
	Feed Unit + Coupler	2.2	mΩ
	Tap-Off	0.73	mΩ
	4mm ² Cable	11.0	mΩ/m
	Coupler	1.5	mΩ
	Interlink Unit	4.5	mΩ
	16mm ² Cable	3.9	mΩ/m
Mechanical Data			
Number of Copper Conductors		2 or 3	
Conductor Cross-section Area	Nominal	20	mm²
Powertrack Casing Copper Equivalent	(Where casing is protective Earth)	12	mm²
Cable Termination Capacity		16	mm²
Tap-Off Cable 32A		4.0	mm²
Tap-Off Cable 13A or 16A		4.0	mm²
Tap-Off Conduit Sizes	Rating: Heavy duty conduit <1KN Tensile Load to BS EN 61386-23	Ø20	mm
Flexible Interlink Cable		16	mm²
Flexible Interlink Conduit	Rating: Heavy duty conduit <1KN Tensile Load to BS EN 61386-23	Ø25	mm
Feed Conduit Entry	1 1	1 x Ø25	mm
IP Rating		40	111111
•			na na
Minimum void depth (track + tap-off) Materials specification		59	mm
Powertrack Casing	Galvanised Steel		
Conductors	High Conductivity Copper/brass		
Powertrack Insulators	PBT Conductivity Copper/brass		
Sockets/Tap-Off Plug/Joint Mouldings Shutter	Polycarbonate PBT		
Tap-Off/Interlink Flexible Conduit	Galvanised Steel		
Tap-Off Cable	BASEC BS6004 H07V-R		
Tap-Off/Coupler Blade	Copper		
Feed Unit Case	Galvanised Steel		
Flexible Interlink Cable	BASEC BS6004 H07V-R		
Feed/Flexible Interlink Housing	Galvanised Steel		

Technical Specifications

Third party certified and tested to comply with:
BS EN 61534-1: 2011
BS EN 61534-22: 2009
BS 5733: 1995 where applicable.
Marshall-Tufflex is registered by
BSI to BS EN ISO9001: 2008
MT Powertrack is designed to comply with the requirements of BS 7671: 2008 (IEE Wiring Regulations).

ASTA Type Test Certification Powertrack is independently tested by Intertek to BS EN 61534-22:2009 clauses 15.4,18.4.3.2, & 18.4.3.3

Regulation 543.7 Installations to BS 7671:2008 Earthing requirements for the installation of equipment having high protective/ conductor currents.

The scope of Reg. 543.7.1.203 requires that every final circuit intended to supply one or more items of equipment, where the total protective conductor current is likely to exceed 10mA. in normal use, shall have a high protective connection.

All MT Powertrack tap-off units conform to the high integrity protective requirement by virtue of using a protective conductor of 4mm² enclosed within a flexible conduit, thus providing additional protection against mechanical damage.

Regulation 543.7.1.203.

32Amp 3 metre tap-off unit

The 32Amp tap-off unit comprises of an unfused tap-off* a flexible metal conduit with integral 4mm² conductors. These units are designed to comply with regulation 434.2.1(i) of BS 7671:2008 by virtue of the following:

- 1 Maximum length of cable is <3 metres.
- 2 Minimum risk of faults as the item is factory assembled and fully tested.
- 3 Fully protected by flexible steel conduit located within raised access floor that offers further protection.

5 metre tap-off unit

Tap-off units in excess of 3 metres should only be used if they contain a fuse or the powertrack is protected by a 32Amp rated protective device.

^{*}Fused 3 metre tap-offs are available if required.

Raised floor boxes

Three and four compartment boxes and a range of grommets that can be configured to meet client requirements for accessing multiple services concealed below a raised floor system.

Technical Specifications

Raised floor boxes are third party tested to comply with:

BS EN 61534-22:2009

BS EN 60670-1:2005

BS EN 60670-23:2008

BS EN 50085-1:2005

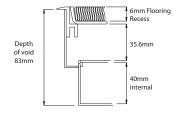
BS EN 50085-2-2:2008

Material

- Lid/trim: flame retardant polypropylene grey RAL 7011
- Box assembly: galvanised steel
- · Load plate: 3mm zinc plated steel
- Accessory plate: galvanised steel

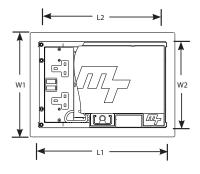
Installation

- Box module has 20 and 25mm knockouts (pre-wired options available).
- Mounting plates:
 3 compartment = 185 x 95mm
 4 compartment = 185 x 71mm
- Standard accessory mounting plates available depending on suitability of floor box configuration.
- Cable covers protect cables when lid is closed.
- Detailed installation instructions are supplied in box.



Dimensions

 For dimensions of non standard boxes and trims, contact Technical Hotline on +44 (0)1424 856688.



Dimensions

No of compartments	Nominal trim size (L1 x W1)	Cut out dimensions (L2 x W2)	Accessory Plate Dimensions
3	357 x 257mm	322 x 222mm	185 x 95mm
4	357 x 257mm	322 x 222mm	185 x 71mm
		General tolerance +3mm	

Care should be taken to ensure that box edges are smoothed and free from burrs. Carpet tile cut size for lid is $303 \times 166 \text{mm}$

Load Testing

Load testing of floor boxes to: BS EN 61534-22:2009 BS EN 50085-2-2:2008

The floor boxes have been tested to and comply with the loading requirements of the aforementioned standards.

There are two loading criteria for the floor boxes:

- A point loading; to simulate foot traffic or light furniture like a chair leg / caster sitting on the lid. The maximum permissible deflection is 6mm (BS EN 61534-22:2009 and BS EN 50085-2-2:2008)
- 2. A plate loading; to simulate heavy foot traffic or larger furniture loads. the maximum permissible deflection is 4mm (BS EN 61534-22:2009) or 6mm (BS EN 50085-2-2:2008)

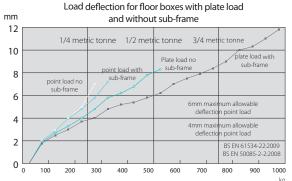
Note: The maximum permissible permanent deflection after the load has been removed is 3mm for both standards.

The loading graphs show the deflection based on floor boxes without and with a sub-frame. The point loading value is approaching ¼ of a metric tonne without sub-frame and reaching ¼ of a metric tonne with sub-frame. In both cases the permanent deflection is less than ¼ mm.

For plate loading without sub-frame the value is approaching $\frac{1}{4}$ of a metric tonne with 4mm deflection and $\frac{1}{3}$ of a metric tonne with 6mm deflection. With the sub-frame fitted the loading reaches $\frac{1}{4}$ of a metric tonne with 4mm deflection and $\frac{1}{2}$ a metric tonne with 6mm deflection. In both cases the permanent deflection is reaching 0.5mm.

Note: floor boxes fitted with sub-frame can exceed more than 1 metric tonne plate load before lid failure. In all tests (with and without sub-frame) the required loading was reached without damage to the plastic trim or compromised the lid.





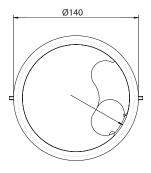


Grommets

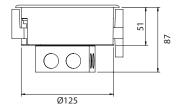
Material

- · ABS Flame retardant
- Flammability: UL94 V-O at 2.0mm
- Colour: polypropylene grey RAL 7011
- Lid: captive screwdown
- Lid recess: 15mm for extra strength
- Through power/data options

Dimensions



Cut out dimensions



In-screed system

Three and four compartment boxes configured to meet client requirements for accessing multiple services concealed within an inscreed floor system.

Standard system is suitable for screed depths of 63mm to 85mm. For other screed depths please contact the Technical Team on +44 (0)1424 856688.

Material

- Lid/trim: polypropylene grey RAL 7011
- Frame assembly: galvanised steel
- · Modular boxes: galvanised steel
- Load plate: galvanised steel

Installation

- Layout planning essential as alterations are not possible once screed is laid.
- Place floor boxes and junction boxes in position with top of boxes level and in line with expected finished floor level, with the sub-frame raised 10mm.
- Adjust boxes to screed depth by adjusting sub frame height.
- When boxes are in correct position, use PVC-U or steel duct to link between.
- To use conduit for linking boxes, utilize the Ø20mm knockout in the blank plate.
- Floor boxes can only be used as through boxes.

- Junction boxes have all round access with internal segregation.
- Duct adaptors and blank ends are not supplied for junction and service boxes.
 These must be ordered separately to individual requirements.
- Use a connector to join lengths of ducting.
- Flat and vertical bends or junction boxes are used where a change of direction is required.
- An optional steel screeding plate (USFSP1) is available to replace the box lid temporarily when screeding the floor.

Wiring accessories and mounting plates

- 3 compartment box: 185 x 95mm
- 4 compartment box: 185 x 71mm
- For use with standard 60.3mm and 120.6mm accessories with blank or pre-punched plates for data/telecoms etc.

Desk units

Flip up units

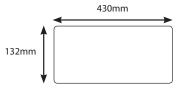
- Units have bi-directional access and are suitable for installation to BS 6396.
- Up to 4 x individually fused 3.15 sockets.
- Up to 4 x data outlets.

Fitting

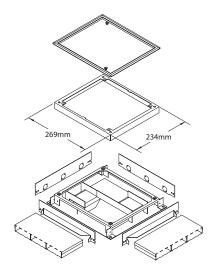
 Simple, secure ratchet with hidden screw fixing.

Desk cut out size

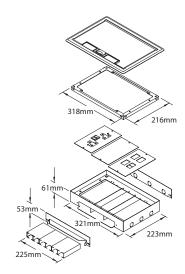
- 132 x 430mm.
- Unit casing depth 90mm from top surface of desk.
- It is recommended that at least 400mm is clear below the cut out to allow cables to move freely.
- Cut out width is constant (132mm).
- Cut out length (430mm) will vary according to order requirements.



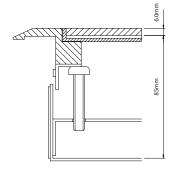
Junction box

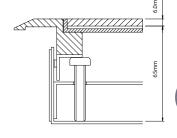


Floor outlet box



Box screed depth adjustment

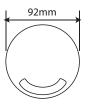






Desk grommets

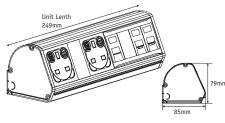
Dimensions



Cut out size

Box type	Diameter
DG1	80mm
General tolerance	2mm

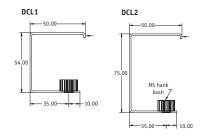
Curved surface unit



Adjustable desk clamp

Adjustable clamps suit desks from 5mm – 48mm thick.

• For use with curved surface units only.



Power and Data Modules

Standards

BS 1363-1

BS 1363-2 (where applicable)

BS 5733:2010+A1:2014

EN 50581:2012

EN 301 489-34(2012)

IEC 60884-1:2005

For more information please contact our Technical Team on +44 (0)1424 856688.

Material

Power and Power and Data Modules are constructed from high strength flame retardant black polycarbonate mouldings. RCBO – constructed from aluminium casing

Insulation

Reinforced insulation

Earth Bonding:

· Power Modules

An external earth terminal allows connection of earth bonding leads without dismantling the unit. Please use suitable tools to cut earth lead from Power Modules if required.

· Power and Data Modules

Our Power and Data Modules units are supplied as standard with a prefitted 250mm earth lead to 5mm ring terminal.

Fusing

To enable compliance to BS6396 the UK sockets are fitted with $Ø5 \times 20$ mm antisurge ceramic fuses, with colour-coded fuse clips to denote the rating (3.15Amp or 5Amp).

RCBO Rating

30mA 16Amp

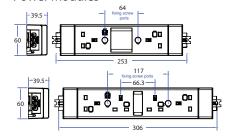
Quality and Testing:

100% testing - continuity, polarity, insulation & earth

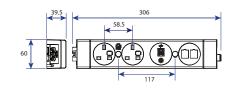
- · Power and Data Modules only
- USB charger: Output voltage and resistance
- Data & AV: All sockets continuity tested

Dimensions

Power Modules



Power and Data Modules



Configuration

- Power modules
 Power only
- Power and data modules

2 x UK fused sockets plus 2 configurable gangs for Power, USB charging or data/AV

RCBOs

Designed to be connected directly to underfloor track.

Input connections via tap-off.

Output connection via Weiland GST18/3.

Connection options

Power and Data Modules - Built in GST18/3 male for power in, plus optional GST18/3 female connector for power out on certain configurations.

Two modules units can be securely clipped together via the inbuilt GST18/3 connectors e.g. a DM5001 and DM5030 (both with 3.15Amp fuses) can be joined to form a BS6396 compliant 6 socket unit.



The rear section of the Power and Data Modules can be removed for onsite data/ AV installation.

Cable type

In-feed power cable shown with optional Wieland connector.

- 13Amp rating
- Specification of cable length is necessary



Power module earth lead

Size: 1.5mm²

Length: 250mm with 5mm ring terminal.



Series 2 PowerPole

Double sided PowerPole

with 4 hinged lids and 14 ESSB1WH outlets (NPPE36001441)

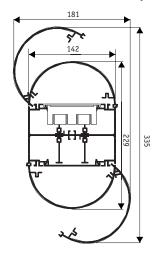
Code	e	Description	Quantity
FF	NPPMB3600	Square PowerPole base 3600mm long	1
Α	NPPHLA/W#	Hinged lid assembly	4
Р	NPPCL1720	Clip on lid 1720mm long	2
Q	NPPCL50	Clip on lid 50mm long	2
R	NPPCL200	Clip on lid 200mm long	2
J	NPPUT	Hinged lid upper trim	4
K	NPPLT	Hinged lid lower trim	4
GG	NPPTC3	Oval top sliding cover	1
НН	NPPBF5	Oval base foot	1
В	NPPBH1	Bulkhead	8
II	PPBF3	Base foot (galvanised)2	
Е	NPPCC1	Cable clip	8
C	ESSB1	Single gang box	14
D	ES1	Spacing cover	12
F	NPPH1	Stainless steel hinges	8
I	PPSN1	Sliding nut	3
Н	NPPLH1	Disc latch	12
М	NPPMC1	Magnet catch	12
G	NPPLBS1	Hinged lid bonding strap	4
	LBS2	Clip on lid bonding strap	6
L	PPBT1	16mm bonding terminal assembly	1
S	*PHAS1	Top adjusting slide 250mm long	1
Т	NPPFB2	Top fixing bracket	1
W	MDFS100W1630	100mm dividing fillet 1630mm long	4
Υ	MDFS50W710	50mm dividing fillet 710mm long	4
Z	MDFS50W200	50mm dividing fillet 200mm long	4
AA	MDFS15W632	15mm dividing fillet 632mm long	4
JJ	MDFS50W175	50mm dividing fillet 175mm long	4
V	ETL1W633	Sterling lid 633mm long	2

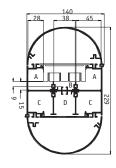
#Please use A or W to denote anodised or white

Note: The Sterling PowerPole is suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void (*PHAS2).

Full installation instructions are included within each pack.

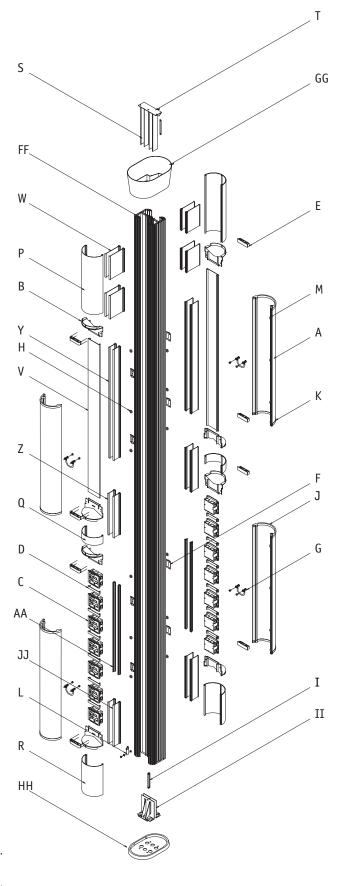
Dimensions and cable capacities





A = 1313 sq mm total area 45% space factor = 591 sq mm. B = 505 sq mm total area 45% space factor = 227 sq mm. C = 1798 sq mm total area 45% space factor = 809 sq mm.

D = 1628 sq mm total area 45% space factor = 733 sq mm.



Series 2 PowerPole - continued

Single sided PowerPole

with 2 hinged lids and 7 ESSB1 outlets (NPPC3600721)

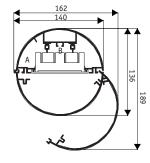
Cod	e	Description	Quantity
ВВ	NPPB3600	Semi-circular PowerPole base 3600mm	1
Α	NPPHLA/W#	Hinged lid assembly	2
Р	NPPCL1730	Clip on lid 1730mm long	1
Q	NPPCL50	Clip on lid 50mm long	1
R	NPPCL200	Clip on lid 200mm long	1
J	NPPUT	Hinged lid upper trim	2
K	NPPLT	Hinged lid lower trim	2
0	NPPTC2	Top sliding cover	1
N	NPPBF4	Circular base foot	1
В	NPPBH1	Bulkhead	4
U	PPBF6	Base foot (galvanised)	1
E	NPPCC1	Cable clip	4
C	ESSB1	Single gang box	7
D	ES1	Spacing cover	6
F	NPPH1	Stainless steel hinges	4
I	PPSN1	Sliding nut	2
Н	NPPLH1	Disc latch	5
M	NPPMC1	Magnet catch	6
G	NPPLBS1	Hinged lid bonding strap	2
	LBS2	Clip on lid bonding strap	3
L	PPBT1	16mm bonding terminal assembly	1
S	*PHAS1	Top adjusting slide 250mm long	1
Т	NPPFB2	Top fixing bracket	1
AA	MDFS15W632	15mm dividing fillet 632mm long	2
Z	MDFS50W200	50mm dividing fillet 200mm long	2
Υ	MDFS50W710	50mm dividing fillet 710mm long	2
Χ	MDFS50W145	50mm dividing fillet 145mm long	2
W	MDFS100W1630	100mm dividing fillet 1630mm long	2
V	ETL1W633	Sterling lid 633mm long	1

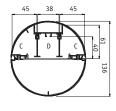
#Please use A or W to denote anodised or white

Note: The Sterling PowerPole is suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void (*PHAS2).

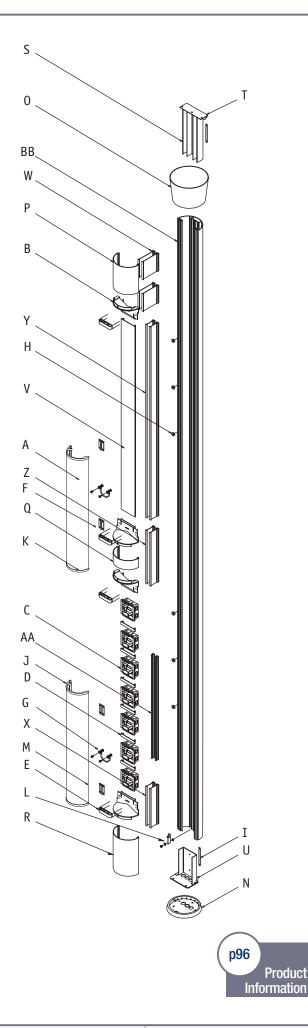
 $Full\ installation\ instructions\ are\ included\ within\ each\ pack.$

Dimensions and cable capacities





A = 1238 sq mm total area 45% space factor = 557 sq mm. B = 505 sq mm total area 45% space factor = 227 sq mm. C = 1798 sq mm total area 45% space factor = 809 sq mm. D= 1628 sq mm total area 45% space factor = 733 sq mm.



Double sided PowerPole

Co	de	Description	Quantity
	PP36001	250mm adj. slide incl	1 pack
	PP36002	1150mm adj. slide incl	1 pack
Α	PPFB2	Fixing Bracket	1
В	PHAS1/2	*Adjusting Slide	1
C	PPSN1	Sliding Nut	3
D	PPTC1	Top Cover (white only)	1
E	PL1	Lid 3600mm	2
F	PPMB1	Pole 3600mm	1
G	ESSB1	Single Gang Box	6
1	PPBF3	Base Foot (Metal)	1 pair
J	PPBF1	Base Foot (white only)	1
K	ES1	Spacing Cover	5
L	PPBT1	16mm Bonding Terminal Ass.	1
	PPF1	Fixing Kit	1

*The Sterling PowerPole is suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void.

1400mm Extension Pole body kits available to increase Pole height to 5.0m.

Full installation instructions are included within each pack.

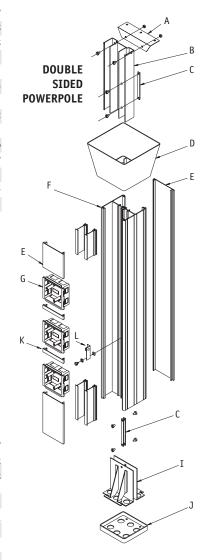
Single sided PowerPole

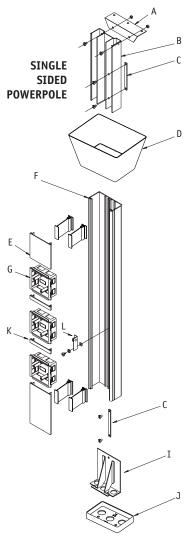
Co	de	Description	Quantity
	PPS36001	250mm adj. slide	1 pack
	PPS36002	1150mm adj. slide	1 pack
Α	PPFB2	Fixing Bracket	1
В	PHAS1/2	*Adjusting Slide	1
C	PPSN1	Sliding Nut	3
D	PPTC2	Top Cover (white only)	1
Е	PL1	Lid 3600mm	1
F	PPSS1	Single Sided Pole 3600mm	1
G	ESSB1	Single Gang Box	6
I	PPBF3	Base Foot (Metal)	1
J	PPBF4	Base Foot (white only)	1
K	ES1	Spacing Cover	5
L	PPBT1	16mm Bonding Terminal Ass.	1
	PPF1	Fixing Kit	1

*The Sterling PowerPole is suitable for both solid and suspended ceilings up to 3.6 metres high. An alternative adjusting slide which can be extended to one metre is available for additional heights within the ceiling void.

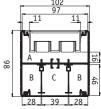
1400mm Extension Pole body kits available to increase Pole height to 5.0m.

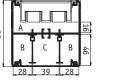
Full installation instructions are included within each pack.





Dimensions and cable capacities





Double sided PowerPole

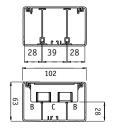
A = 2017 sq mm total area 45% space factor = 907 sq mm.

Without Accessory Box

A = 4284 sq mm total area 45% space factor = 1927 sq mm.

B = 1148 sq mm total area 45% space factor = 516 sq mm.

C = 1547 sq mm total area 45% space factor = 696 sq mm.



Single sided PowerPole

B = 1115 sq mm total area 45% space factor = 502 sq mm.

C = 1119 sq mm total area 45% space factor = 504 sq mm.

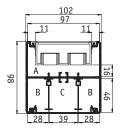
Double sided PowerPost

Co	de	Description	Quantity
	PP685		1 pack
Α	PPC1	Cap	1
В	PL2	Lid	2
C	PPMB2	Post	1
D	ESSB1	Single Gang Box	6
Ε	PPSN1	Sliding Nut	2
F	PPBF3	Base Foot (Metal)	1 pair
G	PPBF1	Base Foot (white only)	1
Н	ES1	Spacing Cover	5
L	PPBT1	16mm Bonding Terminal Ass.	1
	PPF2	Fixing Kit	1

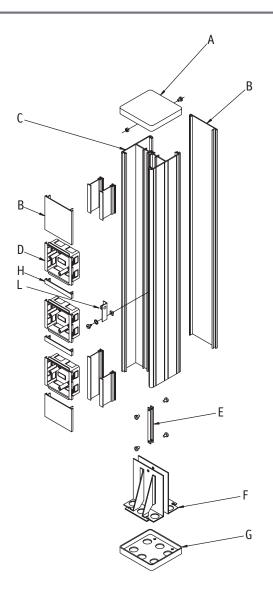
The standard height of the PowerPost is 685mm and the overall height, including cap and base, is 692mm.

Full installation instructions are included within each pack.

Dimensions and cable capacities



A = 2017 sq mm total area 45% space factor = 907 sq mm. **Without Accessory Box** A = 4284 sq mm total area 45% space factor = 1927 sq mm. B = 1148 sq mm total area 45% space factor = 516 sq mm. C = 1547 sq mm total area 45% space factor = 696 sq mm.





Double sided PowerPost

with 2 hinged lids and 14 ESSB1 outlets (NPPE811142)

Cod	de	Description	Quantity
LL	NPPMB811	Square PowerPost base 811mm	n long 1
Α	NPPHLA/W#	Hinged lid assembly	2
J	NPPUT	Hinged lid upper trim	2
K	NPPLT	Hinged lid lower trim	2
KK	NPPC3	Oval Top cap	1
НН	NPPBF5	Oval base	1
В	NPPBH1	Bulkhead	4
C	ESSB1	Single gang box	14
D	ES1	Spacing cover	12
II	PPBF3	Base foot (galvanised)	2
E	NPPCC1	Cable clip	4
AA	MDFS15W632	Dividing fillet 632mm long	4
F	NPPLH1	Stainless steel hinges	4
L	PPBT1	16mm bonding terminal assen	nbly 1
G	NPPLBS1	Hinged lid bonding strap	2
Н	NPPLH1	Disc latch	6
M	NPPMC1	Magnet catch	6
I	PPSN1	Sliding nut	2

#Please use A or W to denote anodised or white

Overall height 838mm.

Full installation instructions are included within each pack.

Single sided PowerPost

with 1 hinged lid and 7 ESSB1 outlets (NPPC80671)

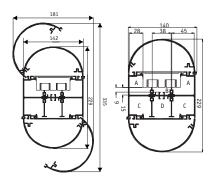
Cod	le	Description	Quantity
CC	NPPB806	Semi-circular PowerPost base 80	06mm 1
Α	NPPHLA/W#	Hinged lid assembly	1
J	NPPUT	Hinged lid upper trim	1
K	NPPLT	Hinged lid lower trim	1
DD	NPPC2	Тор сар	1
EE	NPPBF7	Circular post base foot (galvanis	ed) 1
N	NPPBF4	Circular base foot	1
В	NPPBH1	Bulkhead	2
E	NPPCC1	Cable clip	2
D	ES1	Spacing cover	6
C	ESSB1	Single gang box	7
AA	MDFS15W632	Dividing fillet 632mm	2
Н	NPPLH1	Disc latch	3
М	NPPMC1	Magnet catch	3
F	NPPH1	Stainless steel hinges	2
G	NPPLBS1	Hinged lid bonding strap	1
L	PPBT1	16mm bonding terminal asseml	bly 1
I	PPSN1	Sliding nut	1

#Please use A or W to denote anodised or white

Overall height 838mm.

Full installation instructions are included within each pack.

Dimensions and cable capacities



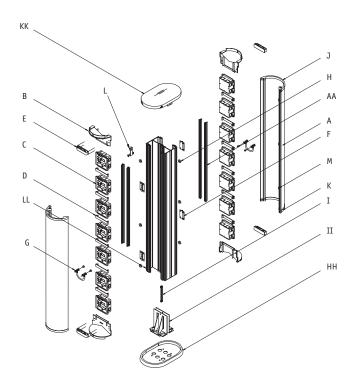
Double sided PowerPost

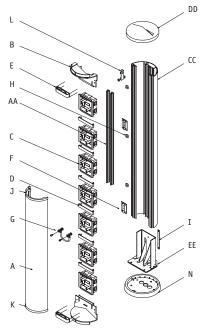
A = 1313 sq mm total area 45% space factor = 591 sq mm. B = 505 sq mm total

B = 505 sq mm total area 45% space factor = 227 sq mm.

C = 1798 sq mm total area 45% space factor = 809 sq mm.

D= 1628 sq mm total area 45% space factor = 733 sq mm.





Single sided PowerPost

A = 1238 sq mm total area 45% space factor = 557 sq mm. B = 505 sq mm total area 45% space factor = 227 sq mm.

TECHNICAL INFORMATION

PVC-U perimeter trunking capacity guide

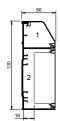
Trunking sizes up to 150mm

Mono 10 no box

 $1 = 4141 \text{mm}^2 \text{ total area}$ $1 = 1863 \text{mm}^2 45\% \text{ space factor}$

with box in comp 1

 $1 = 1874 \text{mm}^2 \text{ total area}$ $1 = 843 \text{mm}^2 45\% \text{ space factor}$



Compact 1 no box

 $1 = 1280 \text{mm}^2 \text{ total area}$

 $1 = 576 \text{mm}^2 45\% \text{ space factor}$

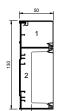
 $2 = 3763 \text{mm}^2 \text{ total area}$

 $2 = 1693 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1497 \text{mm}^2 \text{total area}$

 $2 = 673 \text{mm}^2 45\%$ space factor



Compact 2 no box

 $1 = 1534 \text{mm}^2 \text{ total area}$

 $1 = 690 \text{mm}^2 45\% \text{ space factor}$

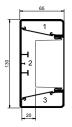
 $2 = 3763 \text{mm}^2 \text{ total area}$

 $2 = 1693 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1497 \text{mm}^2 \text{ total area}$

 $2 = 673 \text{mm}^2 \text{ total area}$



Series R 130 with box and segregators

 $1 \& 3 = 957 \text{mm}^2 \text{ total area}$

 $1 \& 3 = 431 \text{mm}^2 45\% \text{ space factor}$

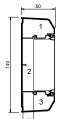
 $2 = 2210 \text{mm}^2 \text{ total area}$

 $2 = 995 \text{mm}^2 45\% \text{ space factor}$

without segregators

 $1 = 4272 \text{mm}^2 \text{total area}$

 $1 = 1922 \text{mm}^2 45\% \text{ space factor}$



Mono Plus 20 - no box

 $1 \& 3 = 1024 \text{mm}^2 \text{ total area}$

 $1 \& 3 = 461 \text{mm}^2 45\%$ space factor

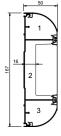
 $2 = 3451 \text{mm}^2 \text{ total area}$

 $2 = 1553 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1185 \text{mm}^2 \text{total areal}$

2 = 533mm²45% total area



Sterling Curve Profile 1- no box

 $1 \& 3 = 1170 \text{mm}^2 \text{ total area}$

 $1 \& 3 = 527 \text{mm}^2 45\%$ space factor

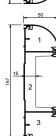
 $2 = 3858 \text{mm}^2 \text{ total area}$

 $2 = 1736 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1376 \text{mm}^2 \text{total area}$

 $2 = 619 \text{mm}^2 45\%$ total area



Sterling Curve Profile 2- no box

 $1 = 1170 \text{mm}^2 \text{ total area}$

 $1 = 527 \text{mm}^2 45\%$ space factor

 $2 = 3858 \text{mm}^2 \text{ total area}$

 $2 = 1736 \text{mm}^2 45\% \text{ space factor}$

 $3 = 1542 \text{mm}^2 \text{ total area}$

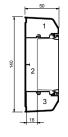
 $3 = 694 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1376 \text{mm}^2 \text{ total area}$

 $2 = 619 \text{mm}^2 45\% \text{ space factor}$

Trunking sizes from 150mm to 200mm



Mono Plus 30 no box

 $1 = 1450 \text{mm}^2 \text{ total area}$

 $1 = 652 \text{mm}^2 45\% \text{ space factor}$

 $2 = 3829 \text{mm}^2 \text{ total area}$ $2 = 1723 \text{mm}^2 45\%$ space factor

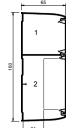
 $3 = 1646 \text{mm}^2 \text{ total area}$

 $3 = 741 \text{ mm}^2 45\% \text{ space factor}$

With box in comp 2

2=1563mm² total area

 $2 = 703 \text{mm}^2 45\%$ space factor



Twin165 no box

 $1 = 3272 \text{mm}^2 \text{ total area}$

 $1 = 1472 \text{mm}^2 45\% \text{ space factor}$

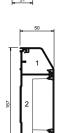
 $2 = 5404 \text{mm}^2 \text{ total area}$

 $2 = 2431 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 3100 \text{mm}^2 \text{ total area}$

 $2 = 1395 \text{mm}^2 45\% \text{ space factor}$



Sterling Profile 2 no box

 $1 = 1266 \text{mm}^2 \text{ total area}$

 $1 = 570 \text{mm}^2 45\% \text{ space factor}$

 $2 = 3858 \text{mm}^2 \text{ total area}$

 $2 = 1736 \text{mm}^2 45\% \text{ space factor}$

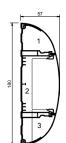
 $3 = 1542 \text{mm}^2 \text{ total area}$

 $3 = 694 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1376 \text{mm}^2 \text{ total area}$

 $2 = 619 \text{mm}^2 45\% \text{ space factor}$



Odyssey no box

 $1 \& 3 = 1256 \text{mm}^2 \text{ total area}$

 $1 \& 3 = 565 \text{mm}^2 45\% \text{ space factor}$ $2 = 4022 \text{mm}^2 45\% \text{ total area}$

 $2 = 1810 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1230 \text{mm}^2 \text{ total area}$





Conductor type

Stranded PVC power

Stranded PVC power

Stranded PVC power

For Data cable information

Compact 3 – no box

 $1 = 3763 \text{mm}^2 \text{ total area}$

 $1 = 1693 \text{mm}^2 45\% \text{ space factor}$

 $2 = 3700 \text{mm}^2 \text{ total area}$

 $2 = 1665 \text{mm}^2 45\% \text{ space factor}$

With box in comps 1 and 2

 $1 = 1503 \text{mm}^2 \text{total area}$

 $1 = 676 \text{mm}^2 45\%$ space factor $2 = 1440 \text{mm}^2 \text{ total area}$

2 = 648

101111111111111111111111111111111111111			ı		_
3mm ⁺ 45%	space factor			1100 i ir	2
Size	Cable factor	308	1	Η,	_
1.5mm ²	8.0		30	-	4
2.5mm ²	11.9			3	
4.0mm ²	16.6		•	_	_
n, please se	ee page 246				4
				En	

Trunking sizes over 200mm



Twin Plus – no box

 $1 \& 2 = 4755 \text{mm}^2 \text{ total area}$

 $1 \& 2 = 2140 \text{mm}^2 45\%$ space factor

With box in comps 1 or 2

 $1 \& 2 = 2431 \text{mm}^2 \text{ total area}$

 $1 \& 2 = 1094 \text{mm}^2 45\%$ space factor

Sterling Profile 4 no box

 $1 = 1266 \text{mm}^2 \text{ total area}$

 $1 = 570 \text{mm}^2 45\%$ space factor

 $2 = 3858 \text{mm}^2 \text{ total area}$

 $2 = 1736 \text{mm}^2 45\% \text{ space factor}$

 $3 = 3716 \text{mm}^2 \text{ total area}$

 $3 = 1672 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2 or 3

 $2 = 1376 \text{mm}^2 \text{ total area}$

 $2 = 619 \text{mm}^2 45\%$ space factor

 $3 = 1234 \text{mm}^2 \text{ total area}$

 $3 = 555 \text{mm}^2 45\% \text{ space factor}$

XL 202 XL 202 - no box

 $1 = 2824 \text{mm}^2 \text{ total area}$

 $1 = 1271 \text{mm}^2 45\%$ space factor

 $2 = 4771 \text{mm}^2 \text{ total area}$ $2 = 2147 \text{mm}^2 45\%$ space factor

 $3 = 3531 \text{mm}^2 \text{ total area}$

$3 = 1589 \text{mm}^2 45\% \text{ space factor}$ With box in comp 2

 $2 = 2504 \text{mm}^2 \text{ total area}$ $2 = 1127 \text{mm}^2 45\%$ space factor

Sterling Profile 12 no box

 $1 = 570 \text{mm}^2 45\%$ space factor

3 = 3566mm² total area

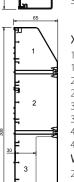
 $4 = 1430 \text{mm}^2 \text{ total area}$

With box in comp 2 or 3

 $2 = 1376 \text{mm}^2 \text{ total area}$

 $2 = 619 \text{mm}^2 45\% \text{ space factor}$

 $3 = 488 \text{mm}^2 45\%$ space factor



XL 212 - no box

 $1 = 2824 \text{mm}^2 \text{ total area}$

 $1 = 1271 \text{mm}^2 45\%$ space factor

 $2 = 2147 \text{mm}^2 45\%$ space factor

 $3 = 4732 \text{mm}^2 \text{ total area}$

 $4 = 3531 \text{mm}^2 \text{ total area}$

With box in comps 2 or 3

 $2 = 1130 \text{mm}^2 45\% \text{ space factor}$

 $3 = 2466 \text{mm}^2 \text{ total area}$

 $3 = 1109 \text{mm}^2 45\%$ space factor

$1 = 1266 \text{mm}^2 \text{ total area}$

 $2 = 3858 \text{mm}^2 \text{ total area}$

 $2 = 1736 \text{mm}^2 45\% \text{ space factor}$

 $3 = 1605 \text{mm}^2 45\%$ space factor

$4 = 644 \text{mm}^2 45\% \text{ space factor}$

 $3 = 1084 \text{mm}^2 \text{ total area}$

 $2 = 4771 \text{mm}^2 \text{ total area}$

 $3 = 2130 \text{mm}^2 45\% \text{ space factor}$

$4 = 1589 \text{mm}^2 45\% \text{ space factor}$

 $2 = 2511 \text{mm}^2 \text{ total area}$

www.marshall-tufflex.com

Compact trunking

Material

PVC-U is flame retardant and selfextinguishing. PVC-U is 100% recyclable.

Installation Positioning

Compact 1, 2 & 3 suitable for dado. Should Compact 3 be used as skirting system, a clearance of 5mm is recommended above the floor covering to allow the profile fittings to clip over the cover.

If Compact 2 is installed close to desk/bench top – invert so small compartment is on bottom.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fittina

- The base is supplied with pre-cut elongated holes at 250mm centres.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

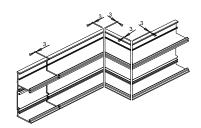
Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

Base joints should have a 3mm gap to allow for expansion.

- Internal, external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Flat angles, tees and crossovers are also available pre-fabricated.

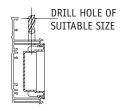


Bend radius control

The data internal and external bend radius control fittings for Compact Trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.
- If Compact 3 is used as a skirting system. All power accessories should be installed in the top compartment.



Covers

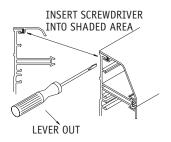
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting



the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

For data/voice circuits only:
 Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50

 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

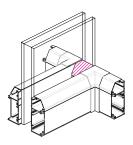
Antimicrobial

For technical details of antimicrobial Bio Compact trunking, please refer to Laboratory and Healthcare section.

Compact trunking - continued

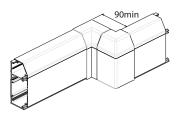
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

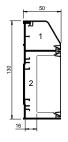


Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

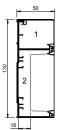


Dimensions



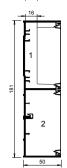
Compact 1 trunking – with box

Compartment 1 total area = 1280mm^2 Compartment 2 total area = 1497mm^2



Compact 2 trunking – no box

Compartment 1 total area = 1534mm² Compartment 2 total area = 3763mm²



Compact 3 trunking – no box

Compartment 1 total area = 3763mm^2 Compartment 2 total area = 3700mm^2

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

	Compar	tment 1	Compar	tment 2
Cable capacity chart	No box	With box	No box	With box
PVC power cable 1.5mm ² s	tranded copper			
Compact 1	72	-	212	84
Compact 2	86	-	212	84
Compact 3	212	85	208	81
PVC power cable 2.5mm ² s	tranded copper			
Compact 1	48	-	142	57
Compact 2	58	-	142	57
Compact 3	142	57	140	54
PVC power cable 4.0mm ² s	tranded copper			
Compact 1	35	-	102	41
Compact 2	42	-	102	41
Compact 3	102	41	100	39
Data cable: Ø5.5mm				
Compact 1	24	-	71	28
Compact 2	29	-	71	28
Compact 3	71	28	70	27
Data cable: Ø6.0mm				
Compact 1	20	-	60	24
Compact 2	24	-	60	24
Compact 3	60	24	59	23
Data cable: Ø6.5mm				
Compact 1	18	-	53	21
Compact 2	21	-	53	21
Compact 3	53	21	52	20
Data cable: Ø7.0mm				
Compact 1	15	-	44	17
Compact 2	18	-	44	17
Compact 3	44	18	43	17
Data cable: Ø8.4mm				
Compact 1	10	-	31	12
Compact 2	12	-	31	12
Compact 3	31	12	30	12



Mono and Mono Plus trunking – PVC-U

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

- Mono 10 For dado application only.
- · Mono Plus 20 and 30

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.
- Mono Plus 20 and 30

Cut the compartment segregators (x 2 provided) to lengths to fit between accessory boxes and corners. Fit into position after wiring has been completed.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

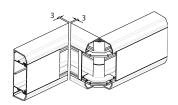
Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.
- Mono 10

For external bends and flat angles, the base must be mitred 45 degrees to ensure total enclosure of trunking, including any internal fitted segregator. Tees are fabricated.

• Mono Plus 20 and 30

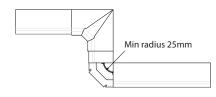
External bends should be cut square at the corner and in internal segregator inserted as shown below, to give additional retention to the clip-on fitting. Flat angles and tees are prefabricated.



Bend radius control

- Mono 10 Not applicable
- · Mono Plus 20 and 30

The data bend radius control fittings for Mono Plus trunking provide a bend radius of 25mm.



Accessory boxes

- If the accessory box is to be fed from a supply in either of the outer compartments, remove the appropriate knock out (top or bottom) and clip the box into the trunking base.
- For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

 Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The cover has been designed to limit unauthorised removal and to remain in position during normal conditions, irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

The cover is clipped into place from the front. If accessory boxes are installed, the cover is butt-joined to the edge of the box and the cut edges of the cover is subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to the base.

Covers - removal

To remove the cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base.

Screening

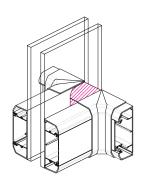
Refer to the Technical Team on +44 (0)1424 856688.

Antimicrobial

For technical details of antimicrobial Mono 10 and Mono Plus 20 Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with a short length of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)

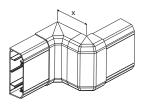


TECHNICAL INFORMATION

Mono and Mono Plus trunking – PVC-U – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



- x = 100mm min (Mono 10)
- 105mm min (Mono Plus 20)
- 110mm min (Mono Plus 30)

Dimensions



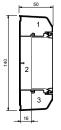
Mono 10 trunking – no box

Compartment 1 total area = 4141mm^2



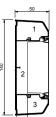
Mono 10 trunking - with box

Compartment 1 total area = 1874mm²



Mono Plus 20 trunking – with box

Compartment 1 total area = 1024mm² Compartment 2 total area = 1185mm² Compartment 3 total area = 1024mm²



Mono Plus 30 trunking - with box

Compartment 1 total area = 1450mm² Compartment 2 total area = 1563mm² Compartment 3 total area = 1646mm²

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable canasity short	Compa	rtment 1	Compa	tment 2	Compai	rtment 3
Cable capacity chart	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² s	tranded co	opper				
Mono 10	233	105	-	-	-	-
Mono Plus 20	58	_	194	67	58	-
Mono Plus 30	82	-	215	88	93	-
PVC power cable 2.5mm ² s	tranded co	opper				
Mono 10	157	71	-	-	-	-
Mono Plus 20	39	_	131	45	39	_
Mono Plus 30	55	-	145	59	62	-
PVC power cable 4.0mm ² s	tranded co	opper				
Mono 10	112	51	-	-	-	-
Mono Plus 20	28	-	94	32	28	_
Mono Plus 30	39	-	104	42	45	-
Data cable: Ø5.5mm						
Mono 10	78	35	-	-	-	-
Mono Plus 20	19	_	65	22	19	-
Mono Plus 30	27	_	72	30	31	-
Data cable: Ø6.0mm						
Mono 10	66	30	-	-	-	_
Mono Plus 20	16	_	55	19	16	_
Mono Plus 30	23	-	61	25	26	-
Data cable: Ø6.5mm						
Mono 10	58	26	-	-	-	-
Mono Plus 20	14	_	48	17	14	-
Mono Plus 30	20	-	54	22	23	-
Data cable: Ø7.0mm						
Mono 10	48	22	-	-	-	-
Mono Plus 20	12	_	40	14	12	_
Mono Plus 30	17	_	45	18	19	-
Data cable: Ø8.4mm						
Mono 10	34	15	-	-	-	-
Mono Plus 20	8	-	28	10	8	-
Mono Plus 30	12	_	31	13	13	_



Odyssey trunking

Material

Odyssey accessory boxes and fittings are flame retardant ABS which is 100% recyclable.

Installation

Positioning

For dado, horizontal or vertical installation.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the covers.

Joints and bends

All base joints should have a 3mm gap to allow for expansion.

- Internal bends: the two base sections should be cut square and butt joined at the corner. The internal end cap component should be fitted to the open end to maintain trunking integrity.
- External bends: the base must be cut square with the corner and the internal radius control segregator fitted into the two base sections.

Adjustable bends: these allow 85° to 95° to accommodate building tolerances.

 Flat bends and tees: have moulded and segregated base units. These are fitted into position and the trunking base then cut to butt up to mouldings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

The bend radius control fittings for Odyssey provide a bend radius of 25mm, 50mm and 65mm.

Accessory boxes

Accessory boxes are mounted in the centre compartment. If supplied from either of the outer compartments, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.

- If boxes DD1510 and DD1520 are installed consecutively, a cut section of centre cover should be fitted between them.
- If DD1540 or DD1550 are installed, Adaptor DD1590 must be fitted either side to align with curved cover.
- If DD1540 or DD1550 are installed consecutively, use the spacer provided and at each end of a run use accessory adaptor DD1590 to align with curved cover.
- Part M coloured accessory boxes are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to limit unauthorised removal and remain in position during normal conditions, irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

Outer covers are fitted first. Locate front clip feature into the base and then roll the cover to the back of the trunking until the rear clip feature positively locates – it is possible to hear the click when this is located correctly. The centre cover is then clipped into place from the front. If accessory boxes are installed, the centre cover is butt joined beneath the moulded flange of the box (Odyssey box DD1510/DD1520) or adaptor (DD1590). The cut edges of lids are then concealed.

A gap of 15mm should be left between cover joints to permit fittings to clip to the base.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

For data/voice circuits only:
 Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50

 V.A.C. – 1000 V.A.C. unless additional measures are undertaken.

Antimicrobial

For technical details of antimicrobial Odyssey Bio trunking, please refer to Laboratory and Healthcare section.

TECHNICAL INFORMATION

Odyssey trunking-continued

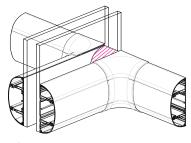
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)

Cable capacities

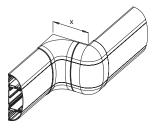
 All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.



Offset dimensions

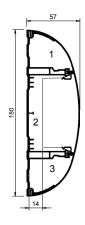
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Cable conscient about	Compartment 1		Compar	tment 2	Compartment 3		
Cable capacity chart	No box	With box	No box	With box	No box	With box	
PVC power cable 1.5mm ² stranded copper	71	-	226	69	71	_	
PVC power cable 2.5mm ² stranded copper	47	-	152	47	47	_	
PVC power cable 4.0mm ² stranded copper	34	-	109	33	34	-	
Data cable: Ø5.5mm	24	-	76	23	24	-	
Data cable: Ø6.0mm	20	-	64	20	20	_	
Data cable: Ø6.5mm	18	-	56	17	18	-	
Data cable: Ø7.0mm	15	-	47	14	15	_	
Data cable: Ø8.4mm	10	-	33	10	10	_	

x = Fixed bend offset 138mm Adjustable bend offset 165mm Adjustable external bend, fixed internal bend offset 163mm Adjustable internal bend, fixed external bend offset 140mm

Dimensions



Odyssey trunking – with box

Compartment 1 & 3 total area = 1278mm² Compartment 2 total area = 859mm²

Odyssey trunking – no box

Compartment 2 total area = 3972mm^2



Series R trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

Series R is suitable for dado.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45 degree mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

All base joints should have a 3mm gap to allow for expansion.

- Internal bends and external bends: trunking body must be mitred at 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles and tees: are prefabricated. Trunking bases should be cut to butt up to fittings.

Cutting is not critical as the external moulded clip-on fittings cover the joints and overlap the trunking covers by 10mm each side, thus covering any inaccuracies.

Bend radius control

Please contact the Technical Team on +44 (0)1424 856688

Accessory boxes

All accessory boxes are mounted in the main, centre compartment. The appropriate knockout removal depends whether supply is to be run in the centre compartment or either/both of the outer segregated compartments. When knockouts are removed, clip the box into the trunking body. When boxes are installed consecutively, a short cut length of centre cover (14mm min.) is required to cover the space between boxes.

Covers

The cover has been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

The single cover is clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (RSSB1/2). The cut edges the cover are subsequently concealed by the accessory.

Covers - removal

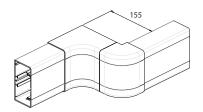
To remove the cover, first detach a coupler, internal or external bend component to gain access. The cover can then be gently eased off the base.

Method of continuation through a partition wall

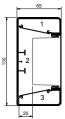
 Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Series R-continued



Series R 130 – with box and segregators

Compartment 1 & 3 total area = 957mm² Compartment 2 total area = 2210mm² Compartment 2 (45% space factor) = 995mm²

65 1 1 2 1 2 20

Series R 130 – with box, no segregators Compartment total area = 4272mm² Compartment (45% space factor) = 1992mm²

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity	Compar	tment 1	Compar	tment 2	Compartment 3				
chart	No box	With box	No box	With box	No box	With box			
PVC power cable 1.5mm ² stranded copper									
Series R 130	89	-	-	40	89	-			
PVC power cable	2.5mm ² s	tranded co	pper						
Series R 130	60	-	-	27	60	-			
PVC power cable	4.0mm ² s	tranded co	pper						
Series R 130	43	-	-	19	43	-			
Data cable: Ø5.5	mm								
Series R 130	30	-	-	13	30	-			
Data cable: Ø6.0	mm								
Series R 130	25	-	-	11	25	-			
Data cable: Ø6.5	mm								
Series R 130	22	-	-	10	22	-			
Data cable: Ø7.0	mm								
Series R 130	19	-	-	8	19	-			
Data cable: Ø8.4	mm								
Series R 130	13	-	-	6	13	-			



Sterling Profile trunking

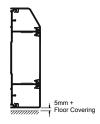
Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings have a 10mm overlap on each side to allow for thermal movement of the covers.

Fitting

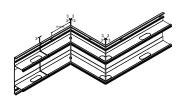
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitros
- To increase number of compartments to any number required, use base extension EBE1WH and extendable base EEB1.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal, external bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.





Bend radius control

The data internal and external bend radius control fittings for Sterling Profile trunking provide a bend radius of 50mm.

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply.
 Fit the box and remove the closest knockout in the main web.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

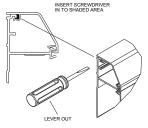
Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

Covers are clipped into place from front. If accessory boxes are installed, the ETL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then ease away from the base.



Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:
Warning: Owing to its relatively
high surface resistance, CS coating
SHOULD NOT be in contact with low
voltage circuits BS7671 (1992) 50
V.A.C. – 1000 V.A.C. unless additional
measures are undertaken.

Antimicrobial

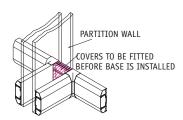
For technical details of antimicrobial Sterling Profile Bio trunking, please refer to Laboratory and Healthcare section on page 36.

TECHNICAL INFORMATION

Sterling Profile trunking – continued

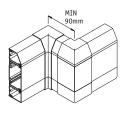
Method of continuation through a partition wall

- Continue the main lateral run of base through the partition wall.
- Fit short lengths of cover where the trunking passes through the partition.
- The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.

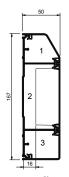


Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions

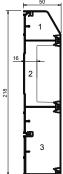


Sterling Profile 2 - with box

Compartment 1 total area = 1266mm² Compartment 2 total area = 1376mm² Compartment 3 total area = 1542mm²

Sterling Profile 2 - no box

Compartment 2 total area = 3858mm^2

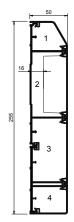


Sterling Profile 4 - with box in compartment 2

Compartment 1 total area = 1266mm² Compartment 2 total area = 1376mm² Compartment 3 total area = 3716mm²

No box in compartment 2

Compartment 2 total area = 3858mm²

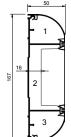


Sterling Profile 12 - with box in compartment 2

Compartment 1 total area = 1266mm² Compartment 2 total area = 1376mm² Compartment 3 total area = 3566mm² Compartment 4 total area = 1430mm²

No box in compartment 2

Compartment 2 total area = 3858mm²

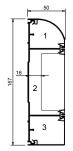


Sterling Curve Profile 1 – no box

1 & 3 = 1170mm² total area 1 & 3 = 527mm² 45% space factor 2 = 3858mm² total area 2 = 1736mm² 45% space factor

With box in comp 2

 $2 = 1376 \text{mm}^2 \text{total area}$ $2 = 619 \text{mm}^2 45\% \text{ total area}$



Sterling Curve Profile 2 – no box

1 & 3 = 1170mm² total area 1 & 3 = 527mm² 45% space factor 2 = 3451mm² total area 2 = 1553mm² 45% space factor

With box in comp 2

 $2 = 1185 \text{mm}^2 \text{total area}$ $2 = 533 \text{mm}^2 45\% \text{ total area}$

Other Sterling Profile dimensions

Other Sterling Profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.



Sterling Profile

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

							.
Cable capacity chart	Compar No box	With box	No box	rtment 2 With box		rtment 3 With box	Compartment 4 No box
PVC power cable 1.5mm ² s	stranded co	pper					
Sterling Profile 1	71	-	217	77	71	-	-
Sterling Profile 2	71	-	217	77	87	-	-
Sterling Profile 3	87	-	217	77	87	-	-
Sterling Curve Profile 1	66	-	217	77	66	-	-
Sterling Curve Profile 2	66	-	217	77	87	-	-
Sterling Profile 4	71	-	217	77	209	69	-
Sterling Profile 5	87	-	217	77	209	69	-
Sterling Profile 6	209	69	217	77	209	69	-
Sterling Profile 11	71	-	217	77	201	61	71
Sterling Profile 12	71	-	217	77	201	61	80
Sterling Profile 13	80	-	217	77	201	61	80
PVC power cable 2.5mm ² s	stranded co	opper					
Sterling Profile 1	48	-	146	52	48	-	-
Sterling Profile 2	48	-	146	52	58	-	-
Sterling Profile 3	58	-	146	52	58	-	-
Sterling Curve Profile 1	44	-	146	52	44	-	-
Sterling Curve Profile 2	44	-	146	52	58	-	-
Sterling Profile 4	48	-	146	52	141	47	-
Sterling Profile 5	58	-	146	52	141	47	-
Sterling Profile 6	141	47	146	52	141	47	-
Sterling Profile 11	48	-	146	52	135	41	48
Sterling Profile 12	48	-	146	52	135	41	54
Sterling Profile 13	54	-	146	52	135	41	54
PVC power cable 4.0mm ² s	stranded co	opper					
Sterling Profile 1	34	-	105	37	34	-	-
Sterling Profile 2	34	-	105	37	42	-	-
Sterling Profile 3	42	-	105	37	42	-	-
Sterling Curve Profile 1	32	-	105	37	32	-	-
Sterling Curve Profile 2	32	-	105	37	42	-	-
Sterling Profile 4	34	-	105	37	101	33	-
Sterling Profile 5	42	-	105	37	101	33	-
Sterling Profile 6	101	33	105	37	101	33	-
Sterling Profile 11	34	-	105	37	97	29	34
Sterling Profile 12	34	-	105	37	97	29	39
Sterling Profile 13	39	_	105	37	97	29	39
Data cable: Ø5.5mm²	3,		103	3,	2,		3,
Sterling Profile 1	24	-	73	26	24	-	-
Sterling Profile 2	24		73	26	29	_	
Sterling Profile 3	29	_	73	26	29	-	-
Sterling Curve Profile 1	22	_	73	26	22	_	
Sterling Curve Profile 2	22	_	73	26	29	-	_
Sterling Profile 4	24	_	73	26	70	23	
Sterling Profile 5	29		73	26	70	23	_
Sterling Profile 6	70	23	73	26	70	23	-
Sterling Profile 11	24	-	73	26	67	20	24
Sterling Profile 12	24	-	73	26	67	20	27
Sterling Profile 13	27	-	73	26	67	20	27
Sterning Profile 13	21	-	/3	20	07	20	21

	Compa	rtmoont 1	Compa	tment 2	Compa	tmont 2	Compositment A
Cable capacity chart	No box	tment 1 With box	No box	With box		tment 3 With box	Compartment 4 No box
Data cable: Ø6.0mm²							
Sterling Profile 1	20	-	61	22	20	-	-
Sterling Profile 2	20	-	61	22	25	-	-
Sterling Profile 3	25	-	61	22	25	-	-
Sterling Curve Profile 1	19	-	61	22	19	-	
Sterling Curve Profile 2	19	-	61	22	25	-	-
Sterling Profile 4	20	-	61	22	59	20	-
Sterling Profile 5	25	-	61	22	59	20	-
Sterling Profile 6	59	20	61	22	59	20	-
Sterling Profile 11	20	-	61	22	57	17	20
Sterling Profile 12	20	-	61	22	57	17	23
Sterling Profile 13	23	-	61	22	57	17	23
Data cable: Ø6.5mm²							
Sterling Profile 1	18	-	54	19	18	-	-
Sterling Profile 2	18	-	54	19	22	-	-
Sterling Profile 3	22	-	54	19	22	-	-
Sterling Curve Profile 1	16	-	54	19	16	-	-
Sterling Curve Profile 2	16	-	54	19	22	-	-
Sterling Profile 4	18	-	54	19	52	17	-
Sterling Profile 5	22	-	54	19	52	17	-
Sterling Profile 6	52	17	54	19	52	17	-
Sterling Profile 11	18	-	54	19	50	15	18
Sterling Profile 12	18	-	54	19	50	15	20
Sterling Profile 13	20	-	54	19	50	15	20
Data cable: Ø7.0mm²							
Sterling Profile 1	15	-	45	16	15	-	-
Sterling Profile 2	15	-	45	16	18	-	
Sterling Profile 3	18	-	45	16	18	-	-
Sterling Curve Profile 1	14	-	45	16	14	-	-
Sterling Curve Profile 2	14	-	45	16	18	-	-
Sterling Profile 4	15	-	45	16	43	14	-
Sterling Profile 5	18	-	45	16	43	14	-
Sterling Profile 6	43	14	45	16	43	14	-
Sterling Profile 11	15	-	45	16	42	13	15
Sterling Profile 12	15	-	45	16	42	13	17
Sterling Profile 13	17	-	45	16	42	13	17
Data cable: Ø8.4mm²							
Sterling Profile 1	10	-	31	11	10	-	-
Sterling Profile 2	10	-	31	11	13	-	-
Sterling Profile 3	13	-	31	11	13	-	-
Sterling Curve Profile 1	10	-	31	11	10	-	-
Sterling Curve Profile 2	10	-	31	11	13	-	-
Sterling Profile 4	10	-	31	11	30	10	-
Sterling Profile 5	13	-	31	11	30	10	-
Sterling Profile 6	30	10	31	11	30	10	-
Sterling Profile 11	10	-	31	11	29	9	10
Sterling Profile 12	10	-	31	11	29	9	12
Sterling Profile 13	12	-	31	11	29	9	12

Twin165 trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 7mm overlap on each side.

Fitting

- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal and external bends: Base should be cut square to bend base component.
- Flat angles and tees are pre-fabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.
- End caps to be screw fixed to base.

Bend radius control

The bend radius control fittings for Twin165 provide a bend radius of 50mm

Accessory boxes

The accessory box is mounted in the larger compartment (compartment 2). If supply is from the smaller compartment, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes supplied from the main compartment, remove the appropriate box knock-outs and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

 Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers, a gap of 25mm is left between the two cover ends.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

- For data/voice circuits only:
 Warning: Owing to its relatively high surface resistance, CS coating SHOULD NOT be in contact with low voltage circuits BS7671 (1992) 50

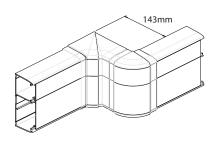
 V.A.C. 1000 V.A.C. unless additional measures are undertaken.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Antimicrobial

For technical details of antimicrobial Twin165 Bio trunking, please refer to Laboratory and Healthcare section.

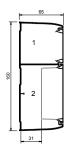
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Twin165 – continued

Dimensions



Twin165 trunking - no accessory box

Compartment 1 = 3272mm² total area Compartment 1 = 1472mm² 45% space factor Compartment 2 = 5404mm² total area Compartment 2 = 2431mm² 45% space factor

Twin165 trunking – with accessory box

Compartment 1 = 3272 mm² total area Compartment 1 = 1472 mm² 45% space factor Compartment 2 = 3100 mm² total area Compartment 2 = 1395 mm² 45% space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Calala sana situ abaut	Compar	tment 1	Compartment 2		
Cable capacity chart	No box	With box	No box	With box	
PVC power cable 1.5mm² stranded copper	184	_	304	174	
PVC power cable 2.5mm ² stranded copper	124	-	204	117	
PVC power cable 4.0mm² stranded copper	89	-	146	84	
Data cable: Ø5.5mm	62	-	102	59	
Data cable: Ø6.0mm	52	-	86	49	
Data cable: Ø6.5mm	46	-	76	43	
Data cable: Ø7.0mm	38	-	63	36	
Data cable: Ø8.4mm	27	-	44	25	



Twin Plus trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

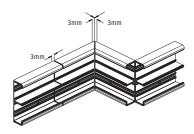
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- External bends: base should be cut square.
- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies



Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm

Accessory boxes

If the accessory box is to be mounted in the alternative compartment to the supply, drill the main web adjacent to the box position. Remove the appropriate knock out and clip the box into the trunking base. For boxes in the same compartment as the supply, remove the appropriate box knockouts and clip the box into trunking base. When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.

 Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers to conceal the cover joint, a gap of 30mm is left between the two cover ends.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

• For data/voice circuits only:
Warning: Owing to its relatively
high surface resistance, CS coating
SHOULD NOT be in contact with low
voltage circuits BS7671 (1992) 50
V.A.C. – 1000 V.A.C. unless additional
measures are undertaken.

Antimicrobial

For technical details of antimicrobial Twin Plus Bio trunking, please refer to Laboratory and Healthcare section.

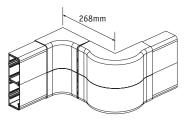
Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

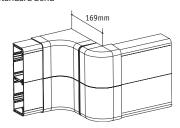
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.

Large data capacity bend



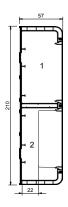
Standard bend



TECHNICAL INFORMATION

Twin Plus trunking – continued

Dimensions



Twin Plus trunking – with accessory box

 $1 = 2431 \text{mm}^2 \text{ total area}$

 $1 = 1094 \text{mm}^2 45\%$ space factor

 $2 = 2431 \text{mm}^2 \text{ total area}$

 $2 = 1094 \text{mm}^2 45\%$ space factor

Twin Plus trunking – no accessory box

 $1 = 4755 \text{mm}^2 \text{ total area}$

 $1 = 2139 \text{mm}^2 45\% \text{ space factor}$

 $2 = 4755 \text{mm}^2 \text{ total area}$

2 = 2139mm 2 45% space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

California de abant	Compar	tment 1	Compartment 2	
Cable capacity chart	No box	With box	No box	With box
PVC power cable 1.5mm² stranded copper	267	137	267	137
PVC power cable 2.5mm ² stranded copper	180	92	180	92
PVC power cable 4.0mm² stranded copper	129	66	129	66
Data cable: Ø5.5mm	90	46	90	46
Data cable: Ø6.0mm	76	39	76	39
Data cable: Ø6.5mm	66	34	66	34
Data cable: Ø7.0mm	56	28	56	28
Data cable: Ø8.4mm	39	20	39	20



XL trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.



Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended.

Adequate allowance is made within the fittings for thermal movement of the covers, which have a 10mm overlap on each side.

Fitting

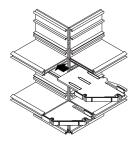
- The base is supplied with pre-cut elongated holes at 250mm centres.
- Internal couplers on base units are not required.
- To fasten base, use No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bend

- Base joints should have a 3mm gap to allow for expansion.
- External bends: base should be cut square and segregators inserted as shown in drawing below.



- Internal bends and flat angles, the base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Tees and crossovers are available prefabricated.
- External moulded fittings overlap the joints by up to 7mm to cover cutting inaccuracies.

Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on +44 (0)1424 856688.

Accessory boxes

- If accessory box main compartment is supplied from an outer compartment, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

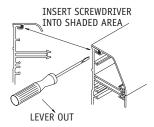
The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers - fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box (ESSB1 and 2 only) and the cut edges of lids are subsequently concealed by the accessory. For fittings, a gap of 30mm is left between the two cover ends to permit the fitting to clip to the base.

Covers – removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.



Screening

Special conductive spray coating can be applied to one compartment, the cover, accessory boxes and fittings, to screen data cables against EMI interference.

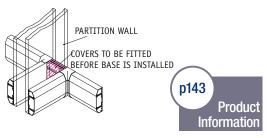
For data/voice circuits only:
 Warning: Owing to its relatively
 high surface resistance, CS coating
 SHOULD NOT be in contact with low
 voltage circuits BS7671 (2008) 50
 V.A.C. – 1000 V.A.C. unless additional
 measures are undertaken.

Antimicrobial

For technical details of antimicrobial XL Bio trunking, please refer to Laboratory and Healthcare section.

Method of continuation through a partition wall

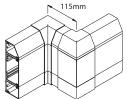
Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



XL trunking - continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



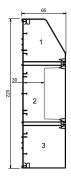
Dimensions

XL 202 Trunking - with box

- $1 = 2824 \text{mm}^2 \text{ total area}$
- $1 = 1270 \text{mm}^2 45\% \text{ space factor}$
- 2 = 2504mm² total area
- 2 = 1126mm² 45% space factor
- 3 = 3531mm² total area
- 3 = 1589mm² 45% space factor

$XL\ 202\ Trunking$ - no box

- $2 = 4771 \text{mm}^2 \text{ total area}$
- 2 = 2147mm² 45% space factor

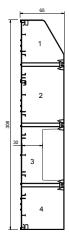


XL 212 Trunking - no box

- 1 = 2824mm² total area
- 1 = 1270mm² 45% space factor
- $2 = 4771 \text{mm}^2 \text{ total area}$
- $2 = 2147 \text{mm}^2 45\%$ space factor
- $3 = 4732 \text{mm}^2 \text{ total area}$
- $3 = 2129 \text{mm}^2 45\% \text{ space factor}$
- $4 = 3531 \text{mm}^2 \text{ total area}$
- 4 = 1589mm² 45% space factor

XL 212 Trunking - with box in comp 2 or 3

- $2 = 2511 \text{mm}^2 \text{ total area}$
- $2 = 1130 \text{mm}^2 45\% \text{ space factor}$
- $3 = 2466 \text{mm}^2 \text{ total area}$
- $3 = 1109 \text{mm}^2 45\% \text{ space factor}$



Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Other Sterling Profile dimensions

Other XL trunking profiles are a combination of the ones shown on this page and can be calculated using the compartment dimensions shown here.

	Compartment 1		Compartment 2		Compartment 3		Compartment 4
Cable capacity chart	No box	With box	No box	With box	No box	With box	No box
PVC power cable 1.5mm² stranded copper							
XL 201	159	-	268	141	159	-	-
XL 202	159	-	268	141	199	-	-
XL 203	199	-	268	141	199	-	-
XL 211	159	-	268	141	266	139	159
XL 212	159	-	268	141	266	139	199
XL 213	199	-	268	141	266	139	199
PVC power cable 2.5mm ² stranded copper							
XL 201	107	-	180	95	107	-	-
XL 202	107	-	180	95	134	-	-
XL 203	134	_	180	95	134	-	-
XL 211	107	-	180	95	179	93	107
XL 212	107	-	180	95	179	93	134
XL 213	134	-	180	95	179	93	134
PVC power cable 4.0m	ım² strand	ed copper					
XL 201	77	-	129	68	77	-	-
XL 201	77	_	129	68	96	-	
XL 203	96	-	129	68	96	-	_
XL 211	77	_	129	68	128	67	77
XL 212	77	-	129	68	128	67	96
	96	_		68		67	96
XL 213 96 - 129 68 128 67 96 Data cable: Ø5.5mm UTP & STP							
XL 201	53	-	90	47	53	-	-
XL 202	53	-	90	47	67	-	-
XL 203	67	-	90	47	67	-	-
XL 211	53	-	90	47	89	47	53
XL 212	53	-	90	47	89	47	67
XL 213	67	-	90	47	89	47	67
Data cable: Ø6.0mm U	TP & STP						
XL 201	45	_	76	40	45	-	-
XL 202	45	-	76	40	56	-	-
XL 203	56	-	76	40	56	-	-
XL 211	45	-	76	40	75	39	45
XL 212	45	-	76	40	75	39	56
XL 213	56	-	76	40	75	39	56
Data cable: Ø6.5mm U	TP & STP						
XL 201	39	_	67	35	39	-	-
XL 202	39	_	67	35	49	-	-
XL 203	49	_	67	35	49	-	-
XL 211	39	_	67	35	66	34	39
XL 212	39	-	67	35	66	34	49
XL 213	49	_	67	35	66	34	49
Data cable: Ø7.0mm U							
XL 201	33	_	56	29	33	-	-
XL 202	33	_	56	29	41	_	-
XL 203	41	_	56	29	41	-	-
	33	_			55		
XL 211			56	29		29	33
XL 212	33	-	56	29	55	29	41
XL 213 Data cable: Ø8.4mm U	41 ITD <i>8.</i> STD	-	56	29	55	29	41
XL 201	23	-	39	20	23	-	
XL 202	23	_	39	20	29	-	-
XL 203	29	-	39	20	29	-	-
XL 211	23	-	39	20	38	20	23
XL 212	23	-	39	20	38	20	29
XL 213	29	-	39	20	38	20	29

Aluminium trunking capacity guide

Trunking sizes up to 150mm

g 2 3

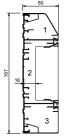
Bench trunking – no box

- $1 \& 3 = 1842 \text{mm}^2 \text{ total area}$ $1 \& 3 = 829 \text{mm}^2 45\% \text{ space factor}$
- 2 = 3342mm² total area 2 = 1504mm² 45% space factor

With box in comp 2

2 = 2188mm² total area 2 = 984mm² 45% space factor

Trunking sizes from 150mm to 200mm



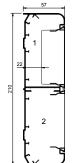
Sterling Profile 3002 – no box

1 = 1060mm² total area 1 = 477mm² 45% space factor 2 = 3802mm² total area 2 = 1711mm² 45% space factor 3 = 1400mm² total area 3 = 630mm² 45% space factor

With box in comp 2

2 = 1535mm² total area 2 = 691mm² 45% space factor

Trunking sizes over 200mm



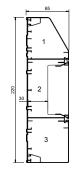
Twin Plus – no box

1 & 2 = 5000mm² total area 1 & 2 = 2250mm² 45% space factor

With box in comps 1 or 2

 $1 \& 2 = 2733 \text{mm}^2 \text{ total area}$

 $1 \& 2 = 1230 \text{mm}^2 45\%$ space factor



XL 302 - no box

 $1 = 2680 \text{mm}^2 \text{ total area}$

 $1 = 1206 \text{mm}^2 45\% \text{ space factor}$

 $2 = 4639 \text{mm}^2 \text{ total area}$

 $2 = 2088 \text{mm}^2 45\% \text{ space factor}$

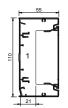
 $3 = 3490 \text{mm}^2 \text{ total area}$

 $3 = 1570 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1123 \text{mm}^2 \text{ total area}$

 $2 = 505 \text{mm}^2 45\% \text{ space factor}$



Elegance 110 aluminium – no box

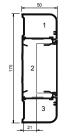
110 DOX

1 = 5254mm² total area 1 = 2364mm² 45% space factor

With box in comp 1

 $1 = 2987 \text{mm}^2 \text{ total area}$

 $1 = 1344 \text{mm}^2 45\%$ space factor



Elegance 170 aluminium

- no box

 $1 = 1764 \text{mm}^2 \text{ total area}$

 $1 = 794 \text{mm}^2 45\% \text{ space factor}$

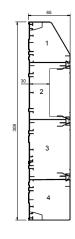
 $2 = 4508 \text{mm}^2 \text{ Total Area}$

 $2 = 2029 \text{mm}^2 45\% \text{ space factor}$

With box in comp 2

 $2 = 1748 \text{mm}^2 \text{ total area}$

 $2 = 787 \text{mm}^2 45\%$ space factor



XL 312 - no box

 $1 = 2824 \text{mm}^2 \text{ total area}$

 $1 = 1271 \text{mm}^2 45\% \text{ space factor}$

 $2 = 4771 \text{mm}^2 \text{ total area}$

 $2 = 2147 \text{mm}^2 45\% \text{ space factor}$

 $3 = 4732 \text{mm}^2 \text{ total area}$

 $3 = 2130 \text{mm}^2 45\% \text{ space factor}$

 $4 = 3531 \text{mm}^2 \text{ total area}$

 $4 = 1589 \text{mm}^2 45\%$ space factor

With box in comps 2 or 3

 $2 = 2511 \text{mm}^2 \text{ total area}$

 $2 = 1130 \text{mm}^2 45\% \text{ space factor}$

 $3 = 2466 \text{mm}^2 \text{ total area}$

 $3 = 1109 \text{mm}^2 45\% \text{ space factor}$

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.0
Stranded PVC power	2.5mm ²	11.9
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

For Data cable information, please see page 246

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Calculations

Please note that all the above calculations are based on a box depth of 30mm

Bench trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016

Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

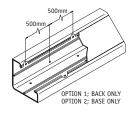
Installation

Positioning

Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative Ø6mm holes either side of divider nib.
- Secure using No 8 round head screws and washers. Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.



Earthing

- Base, covers and metallic fittings to be cleaned of protective and powder coatings and earth bonded.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used. Bonding cover to base use LBS2



Joints and bends

- Base joints should be butt jointed together.
- Internal and external bends are prefabricated in aluminium, aligned and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Bend radius control

Contact the Technical Team on +44 (0)1424 856688

Accessory boxes

- Remove the appropriate box knockout that align with segregated compartment containing supply cable and clip the box into the trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 cover is butt-joined to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory. Adjoining covers are butt-jointed.

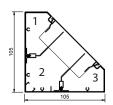
Covers - removal

To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

Screening

Aluminium containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Dimensions



Bench trunking - with box

- $1 = 1345 \text{mm}^2 \text{ total area}$
- $1 = 605 \text{mm}^2 45\%$ space factor
- $2 = 2188 \text{mm}^2 \text{ total area}$
- $2 = 984 \text{mm}^2 45\%$ space factor
- $3 = 1345 \text{mm}^2 \text{ total area}$
- $3 = 605 \text{mm}^2 45\% \text{ space factor}$

Bench trunking – No box

- $1 = 1842 \text{mm}^2 \text{ total area}$
- $1 = 828 \text{mm}^2 45\%$ space factor
- $2 = 3342 \text{mm}^2 \text{ total area}$
- $2 = 1504 \text{mm}^2 45\% \text{ space factor}$
- $3 = 1842 \text{mm}^2 \text{ total area}$
- $3 = 828 \text{mm}^2 45\%$ space factor

Cable capacities

 All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart	Compa	Compartment 1		Compartment 2		Compartment 3	
Cable Capacity Chart	No box	With box	No box	With box	No box	With box	
PVC power cable 1.5mm ² stranded copper	104	76	188	123	104	76	
PVC power cable 2.5mm ² stranded copper	70	51	126	83	70	51	
PVC power cable 4.0mm² stranded copper	50	36	91	59	50	36	
Data cable: Ø5.5mm	35	25	63	41	35	25	
Data cable: Ø6.0mm	29	21	53	35	29	21	
Data cable: Ø6.5mm	26	19	47	31	26	19	
Data cable: Ø7.0mm	22	16	39	26	22	16	
Data cable: Ø8.4mm	15	11	27	18	15	11	

Only for straight runs. If bends are required please contact the Technical Team on +44 (0)1424 856688.

Elegance Aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish.

White RAL 9016

Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

Elegance can be installed at dado level or as a bench-mounted installation.

Fitting

- Secure trunking base every 750mm.
- Secure using No.8 round head screws and washers using the grooves in the outer (110) or inner (170) compartments of the base to facilitate drilling Ø6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Base, covers and metallic fittings to be cleaned of protective powder coatings for earth bonding.
- Elegance 110: Incoming earth connection is made using LBT1 bonding assembly installed in the earth channel of the base.
- Elegance 170: Incoming earth connection is made using LBT3 bonding kit, with edge clip attached to the earth rib in the base and faston connector crimped to incoming earth cable.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding end caps to base: use bonding strap LBS5.
- Bonding base to cover, use LBS2.

Joints and bends

- Straight lengths should be butt jointed together with the aid of LDP1 coupler pin if required.
- Internal bends, external bends, flat angles and tees are prefabricated in aluminium and butt jointed together so cutting of base and covers has to be very accurate to produce a good finish.

Accessory boxes

- Remove appropriate knockout and clip box into trunking base.
- For boxes in same compartment as supply, remove appropriate knockout and clip box into trunking base.
- When boxes are installed consecutively, a 14mm wide length of cover is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface

Covers - fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1/LP1010 cover is butt-joined to the edge of the box (ESSB1/2 only). Cut edges of the cover are concealed by the accessory.

Covers - removal

To remove a cover, first detach an accessory to gain access. The main cover can then be gently eased off the base.

Screening

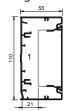
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation metallic dividing fillets are available.

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is 145mm.

Dimensions

Elegance 110



1 = 5254mm² total area

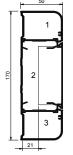
1 = 2364mm² 45% space factor

With box in comp 1

1 = 2987mm² total area

1 = 1344mm² 45% space factor

Elegance 170



A = 1764mm² total area A = 794mm² 45% space factor

Without Accessory
B = 4508mm² total area
B = 2029mm² 45% space
factor

With Accessory B - 1748mm² total area B = 787mm² 45% space

Tax

Cable capacities

 All calculations allow for a 45% space factor

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Fixing to Conduit and Mini Trunking Elegance 170 can be used in conjunction with Conduit and Mini trunking systems as detailed in the diagrams below:



	Elegan	ce 110	Elegance 170			
Cable capacity chart Total cables = Volume/	Compar	Compartment 1		Compartment 2		
cable factor	No box	With box		No box	With box	
PVC power cable 1.5mmv stranded copper	296	168	99	254	98	
PVC power cable 2.5mm ² stranded copper	199	113	67	170	66	
PVC power cable 4.0mm ² stranded copper	142	81	48	122	47	
Data cable: Ø5.5mm	99	56	33	85	33	
Data cable: Ø6.0mm	84	47	28	72	28	
Data cable: Ø6.5mm	73	42	25	63	24	
Data cable: Ø7.0mm	61	35	21	53	20	
Data cable: Ø8.4mm	43	24	14	37	14	

Sterling Profile aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

Suitable for dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

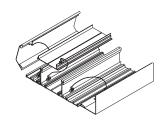


Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling Ø6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably,a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.



Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Moulded from colour matching polycarbonate.
- Internal and external bends must be mitred at 45° to ensure total enclosure and segregation of trunking compartments, including any internal fitted segregator.
- Straight lengths should be butt jointed together.
- Flat angles and tees are prefabricated in aluminium.
- Cutting of base and covers is not critical as external moulded clip-on fittings cover the joint and overlap covers by 10mm each side to cover minor inaccuracies.



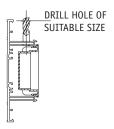


Bend radius control

Contact the Technical Team on +44 (0)1424 856688

Accessory boxes

- For mounting an accessory box in the alternative compartment to supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.





Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

Covers are clipped into place from front. If accessory boxes are installed, the LTL1 cover is butt-joined to the edge of the box. Cut edges of the cover are subsequently concealed by the accessory. For fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then ease away from the base.

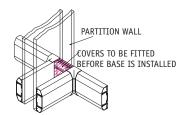


Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

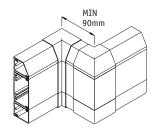
Continue the main lateral run of base through the partition wall. Fit short lengths of cover where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an internal bend fitting.



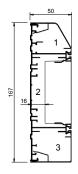
Sterling Profile aluminium – continued

Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



Sterling Profile 3002 - no box

- $1 = 1060 \text{mm}^2 \text{ total area}$
- $1 = 477 \text{mm}^2 45\%$ space factor
- $2 = 3802 \text{mm}^2 \text{ total area}$
- $2 = 1711 \text{mm}^2 45\%$ space factor
- $3 = 1400 \text{mm}^2 \text{ total area}$
- 3 630mm² 45% space factor

Sterling Profile 3002 - with box

- $2 = 1535 \text{mm}^2 \text{ total area}$
- $2 = 691 \text{mm}^2 45\%$ space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cabla canacity short	Compai	rtment 1	Compai	rtment 2	Compa	rtment 3
Cable capacity chart	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² s	tranded co	opper				
Sterling Profile 1	60	-	214	86	65	-
Sterling Profile 2	60	_	214	86	79	-
Sterling Profile 3	73	-	214	86	79	-
PVC power cable 2.5mm ² st	tranded co	opper				
Sterling Profile 1	40	-	144	58	44	-
Sterling Profile 2	40	_	144	58	53	-
Sterling Profile 3	49	-	144	58	53	-
PVC power cable 4.0mm ² st	tranded co	opper				
Sterling Profile 1	29	-	103	42	31	-
Sterling Profile 2	29	_	103	42	38	-
Sterling Profile 3	35	-	103	42	38	-
Data cable: Ø5.5mm						
Sterling Profile 1	20	-	72	29	22	_
Sterling Profile 2	20	_	72	29	26	-
Sterling Profile 3	25	-	72	29	26	-
Data cable: Ø6.0mm						
Sterling Profile 1	17	-	60	24	18	-
Sterling Profile 2	17	_	60	24	22	-
Sterling Profile 3	21	-	60	24	22	-
Data cable: Ø6.5mm						
Sterling Profile 1	15	-	53	21	16	-
Sterling Profile 2	15	_	53	21	20	_
Sterling Profile 3	18	-	53	21	20	-
Data cable: Ø7.0mm						
Sterling Profile 1	12	-	44	18	14	-
Sterling Profile 2	12	_	44	18	16	-
Sterling Profile 3	15	-	44	18	16	-
Data cable: Ø8.4mm						
Sterling Profile 1	9	-	31	12	9	-
Sterling Profile 2	9	-	31	12	11	-
Sterling Profile 3	11	-	31	12	11	-

Twin Plus aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. White RAL 9016 Silver Grey RAL 9006

Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

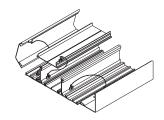
Suitable for dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling Ø6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably,a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

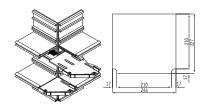


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Moulded from colour-matching polycarbonate. External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.
- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.



Bend radius control

The bend radius control fittings for Twin Plus provide a bend radius of 50mm

Accessory boxes

- If the accessory box is to be mounted in the alternative compartment to the supply, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base.
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the covers are butt-joined to the edge of the box. For the fitting of couplers to conceal the cover joint, a gap of 25mm is left between the two cover ends.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend component to gain access. Both covers can then be gently eased off the base.

Screening

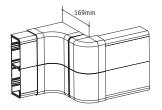
Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend.

Offset dimensions

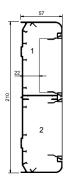
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



ECHNICAL INFORMATION

Twin Plus aluminium - continued

Dimensions



Twin Plus trunking – with accessory box

 $1 = 2733 \text{mm}^2 \text{ total area}$

 $1 = 1230 \text{mm}^2 45\% \text{ space factor}$

 $2 = 2833 \text{mm}^2 \text{ total area}$

 $2 = 1275 \text{mm}^2 45\%$ space factor

Twin Plus trunking – no box

 $1 = 5000 \text{mm}^2 \text{ total area}$

 $1 = 2250 \text{mm}^2 45\% \text{ space factor}$

 $2 = 5100 \text{mm}^2 \text{ total area}$

 $2 = 2295 \text{mm}^2 45\%$ space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable same its short	Compar	tment 1	Compartment 2		
Cable capacity chart	No box	With box	No box	With box	
PVC power cable 1.5mm ² stranded copper	281	154	287	159	
PVC power cable 2.5mm ² stranded copper	189	103	193	107	
PVC power cable 4.0mm ² stranded copper	136	74	138	77	
Data cable: Ø5.5mm	95	52	96	54	
Data cable: Ø6.0mm	80	43	81	45	
Data cable: Ø6.5mm	70	38	71	40	
Data cable: Ø7.0mm	58	32	60	33	
Data cable: Ø8.4mm	41	22	41	23	



XL trunking aluminium

Material

Aluminium trunking is manufactured from high precision extruded aluminium with a powder coat finish. Accessory boxes are supplied in PVC-U or polycarbonate both of which are 100% recyclable.

Installation

Positioning

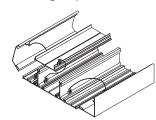
For dado and skirting installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling 6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm diameter fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together.

Earthing

- Clean protective coating from base, covers and metallic fittings and then earth bond.
- Incoming earth connection is made using LTB1 bonding assembly installed in the earth channel of the base.
- Bonding base to base: in final ring or radial 32Amp circuits, bonding strap LBS1 can be used.
- Bonding covers and end caps to base: use bonding strap LBS2.

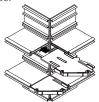


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Moulded from colour-matching polycarbonate.
- External bends: base should be cut square at the corner and the internal segregator inserted into the web of each base.



- Internal bends: base must be mitred 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Flat angles, tees and crossovers are prefabricated aluminium.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.

Template dimensions for Flat angle and Tee



Bend radius control

For data bend radius control fittings for XL, please contact the Technical Team on +44 (0)1424 856688.

Accessory boxes

- If accessory box in main compartment is supplied from an outer compartment, drill the main web adjacent to the box position.
- Remove the appropriate knock out and clip the box into the trunking base
- For boxes in the same compartment as the supply, remove the appropriate box knock-outs and clip the box into trunking base.
- When boxes are installed consecutively, a 14mm minimum space is required to cover the space between the boxes (use PVC-U ES1WH or use section of aluminium cover)
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.



Covers

The covers have been designed to remain in position irrespective of impact during normal conditions, minor undulations of the mounting surface, and to limit unauthorised removal.

Covers – fitting

Covers are clipped into place from the front. If accessory boxes are installed, the LTL1 covers are butt-joined to the edge of the box (ESSB1 and 2 only) and the cut edges of lids are subsequently concealed by the accessory. For fittings, a gap of 30mm is left between the two cover ends to permit the fitting to clip to the base.

Covers - removal

To remove a cover, first detach a coupler, internal or external bend



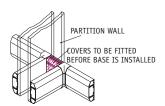
component to gain access. The main cover can then be gently eased off the base. To remove the outer cover, firstly ease from the base by inserting the blade of a terminal screwdriver between the captive legs of the cover and the base and then peel off.

Screening

Aluminium containment will protect all internal circuits from external electromagnetic interference. For internal segregation and screening, use a screened dividing fillet.

Method of continuation through a partition wall

Continue the main lateral run of base through the partition wall with short lengths of cover fitted where the trunking passes through the partition. The partition wall trunking is then butted up to the main run and the joint covered by an Internal bend. (as shown below)



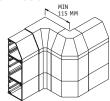


TECHNICAL INFORMATION

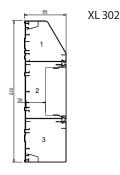
XL trunking aluminium – continued

Offset dimensions

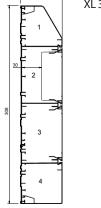
The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below.



Dimensions



XL 312



XL 302 - no box

- $1 = 2680 \text{mm}^2 \text{ total area}$
- $1 = 1206 \text{mm}^2 45\% \text{ space factor}$
- 2 = 4639mm² total area
- $2 = 2087 \text{mm}^2 45\% \text{ space factor}$
- $3 = 3490 \text{mm}^2 \text{ total area}$
- $3 = 1570 \text{mm}^2 45\%$ space factor

$XL\,302$ – with box

- $2 = 1123 \text{mm}^2 \text{ total area}$
- $2 = 505 \text{mm}^2 45\%$ space factor

XL 312 - no box

- $1 = 2680 \text{mm}^2 \text{ total area}$
- $1 = 1206 \text{mm}^2 45\% \text{ space factor}$
- $2 = 4639 \text{mm}^2 \text{ total area}$
- $2 = 2087 \text{mm}^2 45\% \text{ space factor}$
- $3 = 4570 \text{mm}^2 \text{ total area}$
- 3 = 2056mm² 45% space factor
- $4 = 3490 \text{mm}^2 \text{ total area}$
- 4 = 1570mm2 45% space factor

XL 312 – with box

- $2 = 2323 \text{mm}^2 \text{ total area}$
- $2 = 1045 \text{mm}^2 45\%$ space factor
- $3 = 2254 \text{mm}^2 \text{ total area}$
- 3 = 1014mm² 45% space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable some its about	Compa	Compartment 1		rtment 2	Compartment 3		Compartment 4	
Cable capacity chart	No box	With box	No box	With box	No box	With box	No box	
PVC power cable 1.5mm ²	stranded c	opper						
XL 301	151	-	261	63	156	-	-	
XL 302	151	-	261	63	196	-	-	
XL 303	191	_	261	63	196	-	-	
XL 311	151	-	261	131	257	127	156	
XL 312	151	-	261	131	257	127	196	
XL 313	191	-	261	131	257	127	196	
PVC power cable 2.5mm ²	stranded c	opper						
XL 301	101	-	175	42	105	-	-	
XL 302	101	_	175	42	132	-	-	
XL 303	128	_	175	42	132	-	-	
XL 311	101	_	175	88	173	85	105	
XL 312	101	-	175	88	173	85	132	
XL 313	128	-	175	88	173	85	132	
PVC power cable 4.0mm ²	stranded c	opper						
XL 301	73	_	126	30	75	-	-	
XL 302	73	-	126	30	95	-	-	
XL 303	92	-	126	30	95	-	-	
XL 331	73	-	126	63	124	61	75	
XL 312	73	_	126	63	124	61	95	
XL 313	92	-	126	63	124	61	95	
Data cable: Ø5.5mm								
XL 301	51	_	88	21	53	-	-	
XL 302	51	_	88	21	66	-	-	
XL 303	64	-	88	21	66	-	-	
XL 311	51	_	88	44	86	43	53	
XL 312	51	-	88	44	86	43	66	
XL 313	64	-	88	44	86	43	66	
Data cable: Ø6.0mm								
XL 301	43	-	74	18	44	-	-	
XL 302	43	-	74	18	55	-		
XL 303	54	-	74	18	55	-	-	
XL 331	43	-	74	37	73	36	44	
XL 312	43	-	74	37	73	36	55	
XL 313	54	-	74	37	73	36	55	
Data cable: Ø6.5mm								
XL 301	37	-	65	16	39	-	-	
XL 302	37	-	65	16	49	-	-	
XL 303	47	-	65	16	49	-	-	
XL 311	37	-	65	32	64	32	39	
XL 312	37	-	65	32	64	32	49	
XL 313	47	-	65	32	64	32	49	
Data cable: Ø7.0mm								
XL 301	31	-	54	13	32	-	-	
XL 302	31	-	54	13	41	-	-	
XL 303	40	-	54	13	41	-	-	
XL 311	31	-	54	27	53	26	32	
XL 312	31	-	54	27	53	26	41	
XL 313	40	-	54	27	53	26	41	
Data cable: Ø8.4mm								
XL 301	22	-	38	9	23	-	-	
XL 302	22	-	38	9	28	-	-	
XL 303	28	-	38	9	28	-	-	
XL 311	22	-	38	19	37	18	23	
XL 312	22	-	38	19	37	18	28	
XL 313	28	-	38	19	37	18	28	

Steel trunking Series 130 and Series 170

Material

Steel trunking is manufactured from pregalvanised steel with a powder coat finish to RAL 9010.

Installation

Positioning

- System 130: suitable for dado installation.
- System 170: suitable for dado and skirting installation.

When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Fitting

- Secure trunking base every 750mm.
- Secure using No 8 round head screws and washers using the grooves in the outer compartments of the base to facilitate drilling 6mm holes.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a fine tooth blade (32/36tpi) or, preferably, a circular saw with a 350mm fine tungsten blade (90/108tpi). This will produce an edge requiring minimal de-burring.
- Consecutive lengths of base are aligned and butt jointed together using the coupling/bonding set.

Earthing

- Trunking base, main fittings and accessories are fitted with earth connections.
- Bonding base to fittings: use coupling/ bonding set or wire between fitted earth connections.
- Bonding base to cover: covers have pressed out side grippers which automatically establish earth contact when pressed into trunking base.
- Bonding base to end caps: use bonding strap LBS3.

Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

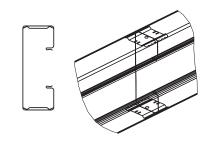
- Base joints should be aligned and butt jointed together.
- Internal and external bends, flat angles and tees are prefabricated in steel, aligned and butt jointed to the base using coupling bonding sets.
- Clip-on external tolerance sleeve overlaps the joints to cover minor inaccuracies.

Screening

Steel containment protects internal circuits from external electromagnetic interference. For internal segregation and screening, use the steel dividing fillet 351189.

Internal coupling/bonding set

- Comprises of two identical parts.
- Insert both parts into end of one length of trunking. Slide next section of base onto couplers and fix into position.



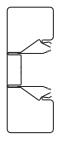
Accessory boxes

Standard depth 40mm Remove the appropriate box knockout and clip each side of the box into the trunking base.

When boxes are installed consecutively, use cover spacer WG01085 between adjacent boxes.

Dividing fillet

Dividing fillet 351189 is supplied in 1 metre lengths. It is held in place through using the universal multi-purpose clip. A minimum of 3 clips are required to hold 2 lengths of the dividing fillet in place. The trunking can be divided into up to 3 compartments using the dividing fillet. Please refer to element 3 of the diagram on page 187.



Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

Covers are clipped into place from front. If accessory boxes are installed, covers are butt-joined to the edge of the box (RSSB10WH end RSSB20WH). Cover lengths are determined so that ends are covered by a fitting or accessory. External bends and flat angles should be fitted with the correct bend/flat angle cover.

Covers – removal

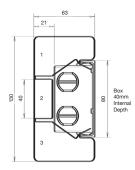
To remove a cover, first detach an external joint cover or accessory to gain access. The main cover can then be gently eased off the base.

TECHNICAL INFORMATION

Steel trunking Series 130 and Series 170 – continued

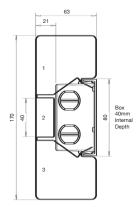
Dimensions

System 130 trunking 130 x 63mm



Compartments 1 & 3 = 1585mm² (each) total area Compartments 1 & 3 = 760mm² (each) 45% space factor Compartment 2 = 713mm² total area (with box) Compartment 2 = 342mm² 45% space factor (with box)

System 170 trunking 170 x 63mm



Compartments 1 & 3 = 2812mm² (each) total area Compartments 1 & 3 = 1265mm² (each) 45% space factor Compartment 2 = 760mm² total area (with box) Compartment 2 = 342mm² 45% space factor (with box)

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable capacity chart		rtment 1 130 & 170		rtment 2 130 & 170	Compartment : Systems 130 & 17			
	No box	With box	No box	With box	No box	With box		
PVC power cable 1.5mm ² s	tranded co	opper						
System 130	89	-	-	40	89	-		
System 170	158	-	-	43	158	-		
PVC power cable 2.5mm ² s	tranded co	opper						
System 130	60	-	-	27	60	-		
System 170	106	-	-	29	106	-		
PVC power cable 4.0mm ² s	PVC power cable 4.0mm ² stranded copper							
System 130	43	-	-	19	43	-		
System 170	76	-	-	21	76	-		
Data cable: Ø5.5mm								
System 130	30	-	-	13	30	-		
System 170	53	-	-	14	53	-		
Data cable: Ø6.0mm								
System 130	25	-	-	11	25	-		
System 170	45	-	-	12	45	-		
Data cable: Ø6.5mm								
System 130	22	-	-	10	22	-		
System 170	39	-	-	11	39	-		
Data cable: Ø7.0mm								
System 130	19	-	-	8	19	-		
System 170	33	-	-	9	33	-		
Data cable: Ø8.4mm								
System 130	13	-	-	6	13	-		
System 170	23	-	-	6	23	-		

Size	Cable factor
1.5mm ²	8.0
2.5mm ²	11.9
4.0mm ²	16.6
Ø5.5mm	23.8
Ø6.0mm	28.3
Ø6.5mm	33.2
Ø7.0mm	38.5
Ø8.4mm	55.4
	1.5mm ² 2.5mm ² 4.0mm ² Ø5.5mm Ø6.0mm Ø6.5mm Ø7.0mm

For Data cable information, please see page 246

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Bench trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

If used as a skirting system, a clearance of 5mm is recommended above the floor covering to allow the profile fittings to clip over the cover.

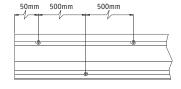
Bench and desk installations: a single run can be fitted to rear of furniture or, if run down centre line, two units can be joined back to back presenting accessories on both sides.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternative 6mm holes either side of divider nib.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To provide cable segregation, dividing fillets are snapped on to internal nibs in base.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- Accepts Marshall-Tufflex and standard UK wiring and data accessories.



Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Internal and external bends are prefabricated.
- External moulded fittings overlap the joints to cover cutting inaccuracies.
- Couplers are required to align and join bend assemblies to trunking.
- Secure end caps using solvent adhesive MSC3.

Accessory boxes

- Remove the appropriate knock out that aligns with segregated compartment containing supply cable and clip the box into the trunking base.
- When boxes are installed consecutively, a 14mm wide spacer (ES1) is required to cover the space between the boxes.
- Part M box assemblies with contrasting coloured faceplates are available to meet the requirements of DDA regulations for Visual Impairment.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

Covers are clipped into place from front. If accessory boxes are installed, the cover is butt-joined to the edge of the box. Cut edges of the cover are concealed by the accessory.

For couplers, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

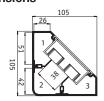
Covers - removal

To remove a cover, first detach a coupler to gain access. The cover can then be gently eased off the base.

Antimicrobial

For technical details of antimicrobial Bio Bench trunking, please refer to Laboratory and Healthcare section.

Dimensions



Bench trunking – with box

- $1 = 1285 \text{mm}^2 \text{ total area}$
- $1 = 578 \text{mm}^2 45\% \text{ space factor}$
- $2 = 2128 \text{mm}^2 \text{ total area}$
- $2 = 957 \text{mm}^2 45\% \text{ space factor}$
- $3 = 1285 \text{mm}^2 \text{ total area}$
- $3 = 578 \text{mm}^2 45\% \text{ space factor}$

Bench trunking – no box

- $1 = 1782 \text{mm}^2 \text{ total area}$
- $1 = 802 \text{mm}^2 45\% \text{ space factor}$
- $2 = 3282 \text{mm}^2 \text{ total area}$
- $2 = 1477 \text{mm}^2 45\%$ space factor
- $3 = 1782 \text{mm}^2 \text{ total area}$
- $3 = 802 \text{mm}^2 45\% \text{ space factor}$

Cable capacities

 All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.



Cable same situ shart	Compai	Compartment 1		Compartment 2		rtment 3
Cable capacity chart	No box	With box	No box	With box	No box	With box
PVC power cable 1.5mm ² stranded copper	100	72	185	120	100	72
PVC power cable 2.5mm ² stranded copper	67	49	124	80	67	49
PVC power cable 4.0mm ² stranded copper	48	35	89	58	48	35
Data cable: Ø5.5mm	34	24	62	40	34	24
Data cable: Ø6.0mm	28	20	52	34	28	20
*Data cable: Ø6.5mm	25	18	46	30	25	18
*Data cable: Ø7.0mm	21	15	38	25	21	15
*Data cable: Ø8.4mm	14	10	27	17	14	10

 $^{^*}$ Only for straight runs. If bends are required please contact the Technical Team on +44 (0)1424 856688.

Cornice trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

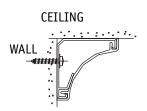
For surface wiring around ceilings.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fittina

- Secure trunking base in one plane every 500mm by drilling 6mm holes in the wall side of the trunking and use round head screws and washers.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.



Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Base must be mitred 45° to ensure total closure of trunking.
- End caps with clips ensure security of trunking.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers - fitting

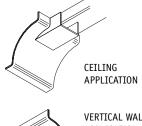
Covers are clipped into place from front. For external moulded fittings, a gap of 25mm is left between the two cover ends to permit the fitting to clip to base.

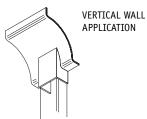
Covers - removal

To remove a cover, first remove a fitting to gain access. Insert blade of terminal screwdriver between captive legs of cover and base and gently ease off.

Accessories

Accessories are serviced through a spur using a mini trunking adaptor and mini trunking across the ceiling to a pendant drop or down the wall to an appropriate accessory box.





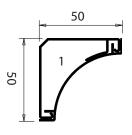
Cable capacities

 All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

	Cable capacity chart	Cable factor	Compartment 1
	PVC power cable 1.5mm ² stranded copper	8.0	47
	PVC power cable 2.5mm ² stranded copper	11.9	31
	PVC power cable 4.0mm ² stranded copper	16.6	22
	Data cable: Ø5.5mm	23.8	15
	Data cable: Ø6.0mm	28.3	13
	Data cable: Ø6.5mm	33.2	11
	Data cable: Ø7.0mm	38.5	9
	Data cable: Ø8.4mm	55.4	6

Dimensions



 $1 = 837 \text{mm}^2 \text{ total area}$ $1 = 376 \text{mm}^2 45\% \text{ space factor}$



Maxi and Sceptre trunking



Maxi MTRS50

Total = 1979mm² total area Total = 890mm² 45% space factor $1 \& 2 = 911 \text{mm}^2 \text{ total area}$ $1 \& 2 = 410 \text{mm}^2 45\% \text{ space factor}$



Maxi MTRS75

Total = 4709mm² total area Total = 2119mm² 45% space factor $1 \& 2 = 2196 \text{mm}^2 \text{ total area}$ $1 \& 2 = 988 \text{mm}^2 45\% \text{ space factor}$



Maxi MTRS75/50

Total = 3032mm² total area Total = 1365mm² 45% space factor $1 \& 2 = 1347 \text{mm}^2 \text{ total area}$ $1 \& 2 = 606 \text{mm}^2 45\% \text{ space factor}$



Maxi MTRS100/50

 $Total = 4040 mm^2 total area$ Total = 1818mm² 45% space factor

 $1 = 1056 \text{mm}^2 \text{ total area}$

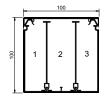
 $1 = 475 \text{mm}^2 45\% \text{ space factor}$

 $2 = 660 \text{mm}^2 \text{ total area}$

 $2 = 297 \text{mm}^2 45\% \text{ space factor}$

 $3 = 1829 \text{mm}^2 \text{ total area}$

 $3 = 823 \text{mm}^2 45\% \text{ space factor}$



Maxi MTRS100

Total = 8733mm² total area Total = 3930mm² 45% space factor

 $1 = 2375 \text{mm}^2 \text{ total area}$

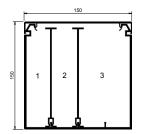
 $1 = 1069 \text{mm}^2 45\%$ space factor

 $2 = 1464 \text{mm}^2 \text{ total area}$

 $2 = 659 \text{mm}^2 45\% \text{ space}$

 $3 = 4075 \text{mm}^2 \text{ total area}$

3 = 1834mm² 45% space factor



Maxi MTRS150

Total = 20193mm² total area Total = 9087mm² 45% space factor

 $1 = 4406 \text{mm}^2 \text{ total area}$

 $1 = 1983 \text{mm}^2 45\% \text{ space factor}$

 $2 = 4728 \text{mm}^2 \text{ total area}$

2 = 2128mm² 45% space factor

 $3 = 9482 \text{mm}^2 \text{ total area}$

 $3 = 4267 \text{mm}^2 45\% \text{ space factor}$



Sceptre DTR1

Total = 3168mm² total area Total = 1426mm² 45% space factor

 $1 = 816 \text{mm}^2 \text{ total area}$

1 = 367mm² 45% space factor

 $2 = 2002 \text{mm}^2 \text{ total area}$

 $2 = 901 \text{mm}^2 45\% \text{ space factor}$



Sceptre DTR2

 $Total = 1731 mm^2 total area$

Total = 779mm² 45% space factor

 $1 = 435 \text{mm}^2 \text{ total area}$

 $1 = 196 \text{mm}^2 45\% \text{ space factor}$

 $2 = 1197 \text{mm}^2 \text{ total area}$

 $2 = 538 \text{mm}^2 45\%$ space factor

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.0
Stranded PVC power	2.5mm ²	11.9
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

For Data cable information, please see page 246

To determine cable capacity, select the size of the cable required and its corresponding cable factor from the table. Divide the compartment area figure (with or without 45% space factor) with the cable factor figure to achieve cable capacity.

Note: When 30mm deep accessory boxes are installed in MTRS100, MTRS100/50 and DTR1, reduce the area by 2600²mm.

Maxi and Sceptre trunking – continued

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

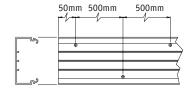
Feeder or distribution trunking.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure trunking base in one plane only every 500mm by drilling alternate 6mm holes.
- · Use roundhead screws.
- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To provide cable segregation, dividing fillets are snapped on to internal nibs in base.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- Maxi only: trunking lengths are connected using internal couplers as follows:
 - Cement one end of the internal coupler to one base using adhesive solvent MSC. Leave other end of coupler free in adjoining base to facilitate thermal movement.

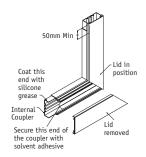


Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Clip-on fittings and 2-part moulded flat angle: base must be mitred at 45° to ensure total enclosure of trunking, including any internal fitted segregator.
- Fabricated fittings: a 3mm gap between trunking base and bend or flat angle is recommended.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Maxi fabricated fittings are supplied with internal couplers (see Fittings)
- Secure end caps using solvent adhesive MSC3.



Accessories

- Sceptre DTR1, Maxi MTRS100/50 and MTRS100: accessory boxes and plates can be used.
- Remove appropriate knockout and clip box into base.
- Sceptre DTR2: only accessory plates can be used.
- When boxes or plates are installed consecutively, fit a 25mm cover spacer (MTRS100LID25WH) between the accessories to conceal space between the boxes.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, the cover is butt-joined to the edge of the box. Cut edges of the cover are concealed by the accessory. For external fitting couplers, the following gaps should be left between the two cover ends to permit the fitting to clip to base:

DTR2	20mm
MTRS50	20mm
MTRS75	20mm
MTRS75/50	20mm
MTRS100/50	20mm
MTRS100	30mm

DTR1: DTR1 couplers are held in place by the two covers. To install, slide coupler up against first installed cover. Fit adjoining cover and slide up to coupler, ensuring the coupler moulding extends over the two covers.

Covers removal

To remove a cover, first detach a coupler or internal/external bend to gain access. The main cover can then be gently eased off the base.



Maxi and Sceptre trunking - continued

-					
Maxi trunking	Total	Compartment 1	Compartment 2	Compartment 3	
Cable capacity chart	TOtal	With box	No box	With box	
PVC power cable 1.5mn	n² stran	ided copper			
MTRS50	111	51	51	-	
MTRS75	265	124	124	-	
MTRS75/50	171	76	76	-	
MTRS100/50	227	59	37	103	
MTRS100	491	134	82	229	
MTRS150	1136	248	266	533	
PVC power cable 2.5mm	n² strar	ided copper			
MTRS50	75	34	34	-	
MTRS75	178	83	83	-	
MTRS75/50	115	51	51	-	
MTRS100/50	153	40	25	69	
MTRS100	330	90	55	154	
MTRS150	764	167	179	359	
PVC power cable 4.0mm	n² stran	ided copper			
MTRS50	54	25	25	-	
MTRS75	128	60	60	-	
MTRS75/50	82	37	37	-	
MTRS100/50	110	29	18	50	
MTRS100	237	64	40	110	
MTRS150	547	119	128	257	
Data cable: Ø5.5mm					
MTRS50	37	17	17	-	
MTRS75	89	42	42	-	
MTRS75/50	57	25	25	-	
MTRS100/50	76	20	12	35	
MTRS100	165	45	28	77	
MTRS150	382	83	89	179	
Data cable: Ø6.0mm	502		0,2	.,,	
MTRS50	31	14	14	-	
MTRS75	75	35	35	_	
MTRS75/50	48	21	21	_	
MTRS100/50	64	17	10	29	
MTRS100	139	38	23	65	
MTRS150	321	70	75	151	
Data cable: Ø6.5mm	321	70	7.5	131	
MTRS50	28	13	13	_	
MTRS75		31	31		
MTRS75/50	66 42	19	19	-	
MTRS100/50	56	15	9	26	
MTRS100/30	122	33	20	57	
MTRS150	282	62	66	133	
Data cable: Ø7.0mm	202	02	00	155	
	22	11	11	-	
MTRS50	23	11	11		
MTRS75	55	26	26	-	
MTRS75/50	35	16	16	-	
MTRS100/50	47	12	8	21	
MTRS100	102	28	17	48	
MTRS150	236	51	55	111	
Data cable: Ø8.4mm		_	_		
MTRS50	16	7	7	-	
MTRS75	38	18	18	-	
MTRS75/50	25	11	11	-	
MTRS100/50	33	9	5	15	
MTRS100	71	19	12	33	
MTRS150	164	36	38	77	

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Sceptre trunking	Total	Compartment 1	Compartment 2		
Cable capacity chart		No box	No box		
PVC power cable 1.5r	nm² stra	inded copper			
DTR1	178	46	113		
DTR2	97	24	67		
PVC power cable 2.5r	nm² stra	inded copper			
DTR1	120	31	76		
DTR2	65	16	45		
PVC power cable 4.0r	nm² stra	inded copper			
DTR1	86	22	54		
DTR2	47	12	32		
Data cable: Ø5.5mm					
DTR1	60	15	38		
DTR2	33	8	23		
Data cable: Ø6.0mm					
DTR1	50	13	32		
DTR2	28	7	19		
Data cable: Ø6.5mm					
DTR1	44	11	28		
DTR2	24	6	17		
Data cable: Ø7.0mm					
DTR1	37	10	23		
DTR2	20	5	14		
Data cable: Ø8.4mm					
DTR1	26	7	16		
DTR2	14	4	10		

Mini trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

As feeder trunking.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- · Mini trunking
- Secure trunking base at lease every 375mm by drilling 6mm holes.
- · Fasten using roundhead screws.
- · Self-fixing mini trunking
- Remove protective film exposing 100-150mm of adhesive foam.
- Line up accurately and press firmly into position.
- · Repeat until base is installed.
- For long term performance we recommend additional securing with screws and washers.

Note: the bond created by the tape can be very strong. Maximum adhesion occurs after 24 hours. Ensure surface is dust-free, dry, clean and flat. Uneven surface contact will reduce bonding performance. Installation in cold conditions below +5°c may affect adhesion.

Mini and Mini SF trunking

- Avoid over-tightening to permit thermal movement.
- The use of plastic caps over screw heads is recommended to protect installed cables.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitros
- End caps are secured using adhesive solvent MSC.

Joints and bends

- All fittings incorporate clip-on design.
- 3mm gap between trunking base and bend or flat angle is recommended.

- For internal bends and flat angles, bases should be mitred 45°.
- For external bends, bases should be cut square to the corner.
- For tees, bases should be cut square and butt up to each other.

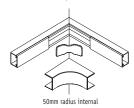


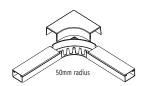


- External clip on fittings overlap trunking base by up to 10mm to cover cutting inaccuracies.
- Secure end caps using solvent adhesive MSC3.

Bend radius control - MMT4 only

- For internal bends, base should be mitred at 45°
- For external bends, base should be cut square with the corner and the radius control fitted.
- For flat angles and tees, allowance should be made when cutting base, for moulded components.





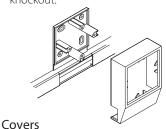
Accessory boxes

- Select appropriate surface box.
- Remove required knockout.
- Clean burrs from around aperture.
- Snap mini adaptor into position on box and place in position.
- Ensure trunking seats securely into adaptor.
- Secure box using diagonally opposite fixing holes.

Shrouded entry boxes

- \bullet For use with MMT2 or MMT3 only.
- Fit back plate in position, secure using diagonally opposite fixing holes.
- Run mini base up to back plate (for terminal accessory) or continue through.
- Remove required knockout from outer cover to fit mini trunking and fit over base plate. Install wiring leaving sufficient to wire accessory.

- Complete assembly is finally secured together when the wired accessory is screwed to accessory front plate.
- Fit mini trunking cover to base, ensuring cover extends into knockout.



Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front.

Covers - removal

To remove a cover, first detach a coupler or internal/external bend to gain access. The cover can then be gently eased off the base.

Cable capacities

- All calculations allow for a 45% space factor.
- Divide cable factor (1st table) into capacity (2nd table) to ascertain number of cables.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Conductor type	Size	Cable factor
Stranded PVC power	1.5mm ²	8.0
Stranded PVC power	2.5mm ²	11.9
Stranded PVC power	4.0mm ²	16.6
*Data cable	Ø5.5mm	23.8
*Data cable	Ø6.0mm	28.3
*Data cable	Ø6.5mm	33.2
*Data cable	Ø7.0mm	38.5
*Data cable	Ø8.4mm	55.4

Mini trunking	Size mm	45% capacity
MMT100	10 x 8	18.5mm ²
MMT0	16 x 10	42mm²
MMT1	16 x 16	77.2mm ²
MMT2	25 x 16	119.7mm ²
MMT3	38 x 16	193mm ²
MMT4	38 x 25	342mm ²
MMT5	50 x 25	449mm ²
MMT6	38 x 38	501mm ²
MMT7	75 x 16	397mm ²

Sovereign Plus trunking

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

Installation

Positioning

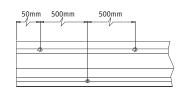
Suitable for skirting and architrave installation. When used as a skirting system, sufficient clearance should be allowed between the floor covering and the profile fittings that clip over the cover i.e. 5mm + floor covering is recommended.

Expansion/contraction

PVC-U expands and contracts at a uniform rate of approx 5.25mm in a 3 metre length for a temperature change of 25°C. Therefore, a 3mm gap between each length of trunking base is recommended. Fittings allow for thermal expansion of the covers.

Fitting

- Secure base every 500mm by drilling alternate 6mm in the two outer slots provided.
- Secure using No 8 round head screws and washers.
- Avoid over-tightening to permit thermal movement. Internal couplers on base units not required.
- To cut the trunking, use a finetoothed panel or power jig-saw.
- External profile fittings overlap joints by up to 10mm to cover cutting inaccuracies.
- A variable angle jig-saw or chop saw is recommended for cutting 45° mitres.
- For segregation, use the cable retainers to retain cables in correct compartments.



Single lengths

Where it is required to fit a single length of trunking (under 3 metres) between two inside walls and no accessory box is fitted, it is advisable to install a coupler in the centre of the run to facilitate the removal of the cover.

Joints and bends

- Base joints should have a 3mm gap to allow for expansion.
- Mitre bases for internal bends, external bends and flat angles at 45° to ensure total enclosure of trunking.
- External moulded fittings overlap the joints by up to 10mm to cover cutting inaccuracies.
- Trunking cover holds external moulded fittings in place when they are clipped on to base.

Bend radius control

Not available.

Accessory boxes

- Mounted on to trunking body with accessory external to the trunking.
- Remove required knockout in back segregator plate that aligns with trunking cable compartment.
- Clip to trunking base and secure to wall surface using 2 diagonally opposite fixing holes.
- · Feed cables through knockout.
- After trunking cover has been fitted to base, clip front cover plate to back plate.
- Complete assembly is finally secured together when the wired accessory is screwed to accessory front plate.

Covers

Covers are designed to limit unauthorised removal and to remain in position during normal conditions irrespective of impact and minor undulations of the mounting surface.

Covers – fitting

Covers are clipped into place from front. If accessory boxes are installed, covers are butt-joined to the edge of the box assembly. Cut edges of the cover are concealed by the accessory. For fittings, a gap of 4mm is left between the two cover ends to permit the fitting to clip to base.

Covers - removal

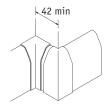
To remove a cover, isolate circuit and detach an accessory and front mounting component. Insert blade of screwdriver between captive legs of cover and gently peel off.

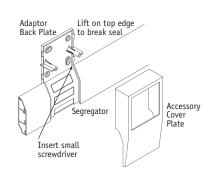
Screening

Not available.

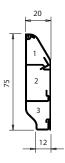
Offset dimensions

The minimum set that can be accommodated in the same plane (from internal to external bend), is shown below:





Dimensions



Sovereign Plus skirting

- $1 = 238 \text{mm}^2 \text{ total area}$
- $1 = 107 \text{mm}^2 45\%$ space factor
- $2 = 416 \text{mm}^2 \text{ total area}$
- $2 = 187 \text{mm}^2 45\% \text{ space factor}$
- $3 = 261 \text{mm}^2 \text{ total area}$
- 3 = 117mm² 45% space factor

Cable capacities

• All calculations allow for a 45% space factor.

As there can be differences between data cable sizes, Marshall-Tufflex recommend that cable dimensions are confirmed with the manufacturing company.

Cable same situs shows	Compartment 1	Compartment 2	Compartment 3
Cable capacity chart	No box	No box	No box
PVC power cable 1.5mm ² st	tranded copper		
Sovereign Plus skirting	13	23	15
PVC power cable 2.5mm ² st	tranded copper		
Sovereign Plus skirting	9	16	10
PVC power cable 4.0mm ² st	tranded copper		
Sovereign Plus skirting	6	11	7
Data cable: Ø5.5mm			
Sovereign Plus skirting	5	8	5
Data cable: Ø6.0mm			
Sovereign Plus skirting	4	7	4
Data cable: Ø6.5mm			
Sovereign Plus skirting	3	6	4
Data cable: Ø7.0mm			
Sovereign Plus skirting	3	5	3
Data cable: Ø8.4mm			
Sovereign Plus skirting	2	3	2



PVC-U Conduit

Material

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability.

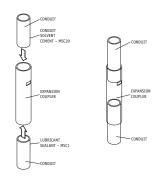
Installation

Fitting

- Secure horizontal runs of conduit at a maximum distance of 0.9m.
- Secure vertical runs of conduit at a maximum of 1.2m.
- In areas of high ambient temperature or where rapid changes in temperature are likely, these distances should be reduced.
- Where there are fittings or directional changes, the conduit should be secured approximately 150mm either side to maintain support.
- Avoid over-tightening to permit thermal movement.

Joints and couplers

- To accommodate thermal movement on surface installations, it is recommended that expansion couplers be used at a maximum distance of 6m intervals.
- In areas of high ambient temperature or where rapid changes in temperature are likely, this distance should be reduced.
- To install an expansion coupler, coat the inside of the short side with solvent cement (MSC) and push firmly over the conduit down to the stop point.
- Slide the next length of conduit into the long side of the coupler until mid-way to the stop point. DO NOT GLUE INTO PLACE. This will permit expansion or contraction of the conduit, providing it is free to move in the saddles.



Bends

Care should be taken not to make too tight a bend and attention is drawn to BS 7671:2001 (Wiring Regulations)

522-08-03. The radius of every bend in a wiring system shall be such that conductors and cables shall not suffer damage.

Cold bending 20-25mm conduit

Cold bending may be carried out on all conduit sizes up to 25mm in diameter using the correct size and gauge of bending spring.

- Heavy gauge spring is colour-banded green at the tip.
- Light gauge spring is colour-banded white at the tip. Springs are not interchangeable.
- Make sure springs are not damaged in any way as this can fracture or kink the conduit making removal of the spring difficult.
- In cold weather, warm the conduit by rubbing with a rag before bending.

To bend the conduit:

- Insert the spring to the desired position, grip the conduit on either side of bend and bring slowly together to form the bend.
- Cold bending of 20mm and 25mm conduit should be done with correct / undamaged spring inserted and bent over knee to initiate bend.
 Spring should remain inserted until the desired angle is achieved. (Under no circumstance should bends be increased or decreased without correct spring inserted)

Failure to follow above procedure could increase possibility of product failure

- Make the bend more acute than necessary to allow for PVC-U to 'recover' after bending.
- To remove the spring, twist anticlockwise (to reduce its diameter) whilst turning the conduit clockwise and gently pulling the conduit and the spring apart.
- If spring fails to release, do not pull too hard or damage to the spring may occur.
- Repeat the removal procedure until they come apart.
- The conduit should then be fastened into position to prevent further 'recovery' of the bend.

Hot bending

Hot bending should be carried out on all conduit sizes over 25mm in diameter using the correct size and gauge of bending spring. To bend the conduit:

 Insert the spring to the desired position as described in 'cold bending', gently heating conduit with a hot air torch, hot water or by other suitable means.

- Avoid direct application of flame to the conduit. When the conduit is in a pliable state, slowly bend around a suitable former, holding in position for about 1 minute until set.
- Remove the spring, twist anticlockwise (to reduce its diameter) whilst turning the conduit clockwise and gently pulling the conduit and the spring apart.
- If the conduit is bent too fast or, in the case of light gauge conduit, across the knee, there is a risk of damage to conduit and spring. Once the bend has been made, it should not be forced backwards but allowed to 'recover' naturally.

Earthing

The properties of PVC-U make it an all insulated system and the use of a separate earth cable is essential.

Joint sealant

• Solvent cement MSC is a slow acting solvent cement especially formulated for watertight conduit fittings.

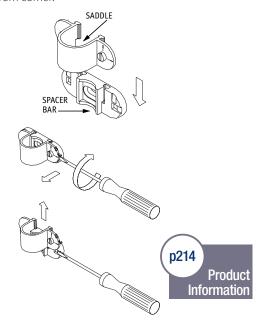
In accordance with COSHH
Regulations, details of our solvents are entered in The National Poison Centre computer records. Health & Safety data sheets are available from our Technical Team or on the technical page of the Marshall-Tufflex website:

www.marshall-tufflex.com

Spacer bar snap saddle

- Slide saddle into groove until it locks into the spacer bar.
- To dismantle, insert 4mm blade screwdriver into slot on side. Twist screwdriver to release the saddle in the spacer bar groove.

If conduit is installed in a corner, ensure that the spacer bar snap saddle is fitted with release mechanism facing away from corner.



MT Supertube

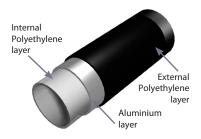
General information

MT Supertube provides LSOH polyethylene-coated aluminium cable protection for installation where halogen free products are a requirement.

Material

Conduit: A seamless aluminium tube sandwiched between two layers of extruded LSOH polyethylene.

Fittings: LSOH polycarbonate or cast metal with paint finish. (black or white).

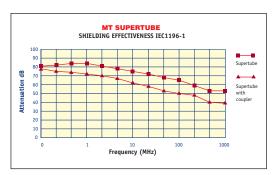


Shielding effectiveness

Shielding effectiveness (attenuation in dB) measures the ratio between the external environment field strength and the field strength after passing through any material. This is recorded in a logarithmic scale.

Shielding effectiveness		
Attenuation	Field strength	
in dB	reduction	
6	2	
20	10	
40	100	
60	1000	
80	10000	

MT Supertube multi layer conduit systems absorbs and reflect emitted radiation from sources of interference, where an attenuation of 80dB would reduce the resultant field within MT Supertube by a factor of 10,000. (See tables.)



The graphs above show that the shielding effectiveness of MT Supertube is highly effective throughout the entire frequency range and will provide protection from interference for data, telecoms and signal cables.

Mechanical		MT Supertube & MT Supertube FR	MT Supertube & MT Supertube FR
Tube reference		22010/22003	22505/22503
Outside diameter	(mm) OD	20	25
Internal diameter	(mm) ID	15.5	20
Wall thickness	(mm) W	2.25	2.5
Minimum bend radius	(8 x dia)	160	200
Weight per metre	(g)	145	184
Lengths	(m)	100/3	50/3
Suspension distance (maximum)	Horizontal (mm)	1000	
	Vertical (mm)	1200	

Electrical	MT Supertube	MT Supertube FR
Electrical breakdown resistance	20,000 V	20,000 V
Temperature range °C	-45 +120	-45 +289
Thermal expansion coefficient	2.0 x 10-6mm/m/K	2.0 x 10-6mm/m/K
Thermal conductivity	0.45 W (mK)	0.45 W (mK)
Earth bonding/continuity test results	<0.05 Ω	<0.05 Ω
Standards	EN 61386-21	EN 61386-21
	IEC 601196-1	IEC 601196-1

WARNING NAIL PENETRATION: MT Supertube FR Plus complies with requirements for BS 7671, BS 8436 and BS EN 61386. Screening to ENIEC 1196-1.

p220 Product Information

Installation

Conduit



MT Supertube can be shaped and slow bends formed by hand but care needs to be taken to avoid kinking.



For tighter radius bends use compact hand bender or inspection elbows and bends.

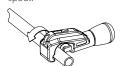
Fittings

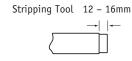
1. For EMC screening system

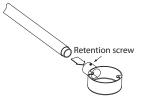
- **a.** Cut the tube squarely to the required length (Tool No. 20001).
- b. Remove 12-16mm of insulation, taking care not to cut the aluminium layer (Tool No. 20002)
- **c.** Push conduit firmly into fitting and secure using screw located in spout.
- **d.** Fasten tube with a saddle within 150mm of



- **a.** Cut the tube squarely to the required length. Tool no. 20001.
- **b.** Apply sealant (20006) to the end of the tube.
- **c.** Push the tube firmly into the fitting spout.
- **d.** Fasten tube with a saddle within 150mm of spout.







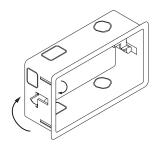
MT Supertube FR Plus performance

•	•			
Fire Performance				
Oxygen Index	BS EN ISO 4589-2		46.5%	
Flammability Temperature	BS EN ISO 4589-3		289°C	
(Temperature Index)	Annex A			
Elemental composition	Lassaigne Sodium	Nitrogen	Negative	
		Fusion	Chloride	Negative
			Bromide	Negative
			Fluoride	Negative
			Sulphur	Negative
Smoke Density	Low Smoke			

Conduit Performance (BS EN 50086.1.2)	
Cold temperature impact test	Heavy gauge performance
Compression	Low compression
Resistance to flame propagation	Pass

Accessory boxes and enclosures

Square and rectangular dry lining accessory boxes



Installation

Fitting

- Choose correct box for application and board depth and cut relevant size aperture in board for box (see table).
- Board should have sufficient strength to support the accessory.
- Remove knockout(s) and pass cables into box. Insert box into aperture and swivel out lugs using internal fins (if fitted) to hold box in position.
- Terminate accessory and, using accessory fixing screws, draw in the lugs, clamping box securely to the board.
- For easy identification the lugs are colour-coded to denote board thickness on standard boxes:

Lug Colour	Adjustment
Grey	1 – 9mm
White	6 – 14mm
Green	18 – 25mm
Black	9 – 26mm

Cut out size

73 x 73mm

135 x 73mm

157 x 73mm

Cut out dimensions

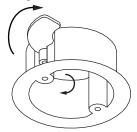
Box type

1 gang

2 gang

Dual gang

Circular dry lining accessory boxes



- Choose correct box for application and board depth and cut relevant size aperture in board for box (see table).
- Board should have sufficient strength to support the accessory.
- Remove knockout(s) and pass cables into box. Insert box into aperture and swivel out lugs using internal fins, if fitted, to hold box in position.
- Terminate accessory and, using accessory fixing screws, draw in the lugs, clamping box securely to the board.

Lug Colour	Туре
White	Single entry box
Red	Dual entry box

Note: Ceiling mounted circular boxes can support 3kg centrally at 60°C maximum subject to ceiling construction.

• For easy identification the lugs are colour-coded to denote type of box:

	Single entry	Dual entry
Board thickness	9-32mm	9-32mm
Entry	Ø20mm x1off KO	Ø20mm x2off KO
Aperture size	Ø63.5mm	Ø70.0mm
Internal depth	34mm	34mm
Fixing centres	M3.5 x 50.8mm	M4.0 x 50.8mm M3.5 x 60.3mm

Moulded enclosures Adaptable boxes

Adaptable boxes as supplied, have a degree of IP66 protection. Any openings that are drilled or cut the box body and are not sealed with appropriate IP66 components or a failure to use the silicon rubber seal fitted, will negate the IP66 rating.



Power, voice and data accessories

General

MT32 13Amp pre-wired sockets, Marshall-Tufflex BS 1363 power assemblies and voice and data boxes for Marshall-Tufflex PVC-U and aluminium trunking systems (except Sovereign Plus and steel systems) Trunking accessory mounting boxes.

Installation

MT32 pre-wired socket range Fitting

- Plug in incoming pre-wired lead (from previous socket or distribution board) to appropriate connector mounted in socket assembly box.
- Connect selected pre-wired lead to outgoing connector mounted on opposite side of socket assembly box.
- Clip complete assembly into trunking compartment.
- When trunking cover is fitted, it should be slid between back box frame and the loosened accessory face plate.
- Front plate is then fully tightened down to clamp accessory in place.
- For pre-made close coupled assemblies, use lid spacer (ES1WH) between boxes.

MT32 system with non-Marshall-Tufflex socket assemblies Fitting

- For non-Marshall-Tufflex accessories, use pre-assembled outlet box unit.
- Connect cable tails to accessory in accordance with wiring regulations and fit accessory to back box.
- Connect pre-wired incoming and outgoing leads and fit to trunking (as above).
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Marshall-Tufflex BS 1363 power assemblies (sockets, switches, spur units) Fitting

- Remove front cover from assembly.
 - Front fix accessories: remove the two securing screws
 - Flush finish accessories: unclip from back box.
- Remove appropriate knockout/s for wiring.
- Wire according to wiring regulations.
- Re-assemble accessory and re-fit face plate.
- Clip complete assembly into trunking compartment.

 For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Voice and data outlet modules (punched 6c 22 x 37mm apertures to accept appropriate voice or data outlets)

Fitting

- · Remove front cover from assembly.
 - Front fix accessories: remove the two securing screws.
- Flush finish accessories: unclip from back box.
- · Fit appropriate voice or data outlets.
- Wire according to manufacturer's instructions.
- · Re-fit face plate.
- Clip complete assembly into trunking compartment.
- For close coupled assemblies, use lid spacer (ES1WH) between boxes.

Trunking accessory boxes for mounting standard BS1363 wiring accessories and Data plates

Standard boxes

- 1 gang fixing centres: 60.3mm
- 2 gang fixing centres: 120.6mm
- Depth: 30mm

Fitting

- Remove appropriate knockouts.
- · Feed cables through knockout.
- Wire to accessory in accordance to wiring regulations and manufacturer's instructions.
- Screw accessory to box.
- Clip complete assembly into trunking compartment.

Adjustable boxes - two part

- 1 gang fixing centres: 60.3mm
- 2 gang fixing centres: 120.6mm
- Depth: 32 50mm

Fitting

- Remove appropriate knockouts.
- · Feed cables through knockout.
- Wire to accessory in accordance to wiring regulations and manufacturer's instructions.
- Screw accessory to box front frame.
- Press (ratchet) both components together until required final box depth is reached.
- Clip complete assembly into trunking compartment.

Screening

 Boxes available with copper spray screening to protect data outlets from electromagnetic interference.

Part M boxes and box assemblies

- Comply with the requirements of Part M (DDA)
- Odyssey coloured boxes (DD1510 and DD1520) with coloured flanges to contrast with trunking cover colour.
- ESPM box assemblies with contrasting coloured flush accessory box frames.
 For colour varieties please view the perimeter trunking pages.

Adjustable accessory box depth by product range

	Maximum adjustment range	Page Reference
PowerPoles and PowerPosts	5	
Series 1 and 2	32 - 40mm	97
PVC-U Perimeter Trunking		
Mono 10	32 - 40mm	112
Compact 1	32 - 40mm	118
Compact 2	32 - 40mm	120
Compact 3	32 - 40mm	122
Mono Plus 20	32 - 40mm	114
Mono Plus 30	32 - 40mm	116
Twin165	32 - 47mm	152
Sterling Profile 1 - 3	32 - 45mm	127
Sterling Curve	32 - 40mm	133
Odyssey	32 - 40mm	109
Twin Plus	32 - 47mm	154
Sterling Profile 4 - 13*	32 - 45mm	141
XL Trunking 201 - 203	32 - 47mm	145
XL Trunking 211 - 213	32 - 47mm	149

Aluminium Trunking		
Bench Trunking	32 - 47mm	182
Elegance 110	32 - 40mm	163
Elegance 170	32 - 40mm	165
Sterling Profile 3001 - 3003	32 - 40mm	168
Twin Plus	32 - 47mm	180
XL Trunking 301 - 303	32 - 47mm	172
XL Trunking 311 - 313	32 - 47mm	176

PVC-U Domestic and General Trunking					
Bench Trunking	32 - 47mm	210			

*Sterling Profile 4 - 13
The EAB1/2 can be adjusted to
45mm in the main compartment
only. Where the EBE1 Base Extension
is used the maximum adjustment
achievable is 40mm



Callmaster fire and security systems

Material

PVC-U is flame retardant and self extinguishing. It provides a 100% recyclable material with good sustainability. It complies with the requirements of BS 4761 Parts 6 and 7 and BS 4678. The Callmaster system is designed to comply with BS 7671:2008.

Installation

- Select Terminal or through box to suit installation.
- If a terminal box is used, fit the blanking plate to unused entry.
- Depending upon circuit wiring, select MIC internal Pot retainer or cable Fibre clamp. Both components are suitable for single for single or twin cable runs.
- Insert one half of the retainer/clamp into the surface box (from the rear) and secure box to the wall.
- Lay in MIC or cable and secure in position with top half of retainer/ clamp – fit Mini adaptor.
- Terminate wiring to accessory and fit to box.

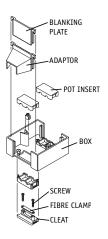
Boxes

Dimensional data for square boxes

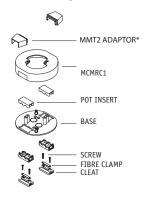
- Overall: 87 x 87mm
- Depth: 38mm external; 35mm internal.
- Fixing centres: 60.3mm.
- Pot size: Ø15mm.

Dimensional data for circular boxes

- Overall diameter: 123mm excluding adaptors
- Depth: 28mm external; 24mm internal.
- Dual fixing centre: 50.8 and 60.3mm.
- Pot size: Ø15mm.



Mini trunking additional adaptors



Intumescent (fire barrier) pads

Marshall-Tufflex dry lining boxes are available with intumescent (fire barrier) pads to comply with the requirements of BS 7671:2008 IEE Wiring Regulations and Document B of the UK Building Regulations.



Firefly Fire Clips

Standards

Compliant with the general principles of BS 5839-1:2013 Section 26.2d when independently tested.

Installation

Vertical spacing - Use 400mm spacing Horizontal spacing – Use 600mm spacing, except over doors and other openings which should be 300mm spacing.

A qualified electrician must select the correct screw fixing for the substrate to comply with BS 7671 Amendment 3. These must be used with the correct drill size.



TECHNICAL INFORMATION

Bio trunking

General information

Certain microbial organisms are harmful to people and can proliferate, via surfaces, to spread infection and disease. We have a responsibility to control such organisms wherever possible, particularly in environments such as hospitals, care homes, medical units, surgeries, schools, sports and health centres.

Microbial organisms can also case product deterioration, discolouration and bad odours and antimicrobial treatments help to prevent these effects.

Marshall-Tufflex antimicrobial Bio cable management systems incorporate silver ions with the PVC-U compound, providing integral antimicrobial protection that prevents 99.9% of harmful bacteria growth.

Material - PVC-U

PVC-U is flame retardant and selfextinguishing. It provides a 100% recyclable material with good sustainability. It complies with the requirements of BS 4761 Parts 6 and 7, BS 4678 and BS 7671:2008.

Material - silver ion additive

Silver ions have been proven to exert recognised bactericidal effect. When incorporated within materials such as PVC-U, silver is toxic to multiple components of bacterial cell metabolism, damaging the cell wall and membrane permeability.

Installation

For technical information on installation of all PVC-U Bio trunking systems, please refer to the relevant technical pages of PVC-U Perimeter trunking systems starting on page 269.

Bio Trunking Solutions are independently tested to ISO 22196:2007

TEST RESULTS: Marshall-Tufflex Report #2422431

LABORATORY: Thomson Research Associates Inc., Ontario, Canada **TEST ORGANISM:** Methicillin Resistant Staphylococcus aureus - MRSA

Quantitative Assessment of Activity – ISO 22196:2007 MRSA						
Concentration of starting inoculum 4.94 x 10 ⁵ CFU/mL						
Sample Description	Number of bacteria recovered	== 3 : [:-3(-, -)]		% Survival		
Flat profile – Blue Tape, White PVC – untreated control	7.19 x 10 ⁶	6.9				
 Curved profile – Red Tape, White PVC – Treated with Ultra-Fresh CA-16 	<2.00 x 10 ¹	<1.3	>5.6	<0.1%		

TEST RESULTS: Marshall-Tufflex Report #2422435

LABORATORY: Thomson Research Associates Inc., Ontario, Canada

TEST ORGANISM: Klebsiella pneumoniae

Quantitative Assessment of Activity – ISO 22196:2007 K.pneumoniae							
Concentration of starting inoculum 1.16 x 10 ⁵ CFU/mL							
Sample Description	Number of bacteria	Log Value R = [log(B/C)] %		% Survival			
Flat profile – Blue Tape, White PVC – untreated control	3.06 x 10 ⁶	6.5					
Curved profile – Red Tape, White PVC – Treated with Ultra-Fresh CA-16	4.01 x 10 ²	2.6	3.9	<0.1%			

The treated curved profile (Sample 2) showed excellent control of both MRSA and Klebsiella Pneumoniae with a greater than 99.9% reduction in bacteria compared to the untreated flat profile (Sample 1). The bacteria grew on the untreated sample.

Bio trunking has demonstrated effectiveness against:

- Methicillin Resistant Staphylococcus aureus (MRSA)
- Klebsiella pneumoniae
- Streptococcus pyogenes
- Enterococcus faecalis
- Escherichia coli

- · Pseudomonas aeruginosa
- · Acinetobacter baumanii
- Bacillus subtilis
- Salmonella
- Legionella

Aluminium systems

Material

Aluminium is a high quality material which is light to handle but with excellent mechanical strength and impact-resistance. Aluminium provides inherent LSOH properties and first class screening performance, especially in high frequencies.

XL Aluminium trunking Installation

For all technical information on XL Aluminium trunking, please refer to pages 286 and 287 of the Aluminium perimeter trunking section. All information on those pages is relevant with the following additions:

Positioning

For dado installation only.

Gas outlets

Covers for gas mounting plates EEBH05 (1 gang), EEBH04 (2 gang) and EEBH03 (3 gang) are pre-punched to accept gas outlets and can be used with XL trunking.

Light fittings

Pre-cut covers to accept external lighting mountings are available on request. For more information please contact the Technical Team on +44 (0)1424 855688.

Please note: in the general installation instructions for XL Aluminium trunking, polycarbonate fittings are shown as an option but these would not generally be used within a healthcare environment.

PRODUCT INDEX AND GENERAL INFORMATION



316 | General information and Index by product name

Health and Safety at work

Health and Safety at work etc. Act 1974

- 1. Section 6 of this act imposes on all manufacturers, designers, importers or suppliers of articles for use at work a duty to ensure, so far as is reasonably practicable, that the article is so designed and constructed that it will be safe and without risks to health at all times when it is being set, used, cleaned or maintained by a person at work. Part 1 of the Consumer Protection Act 1987 introduces strict liability for defects in products. In considering whether a product is defective, consideration has to be given to any instructions issued with the products. It is therefore essential that the purchasers ensure that any relevant information or advice relating to the use of the product is strictly complied with.
- Having regard to these provisions the following is given as a guide to the information which is readily available to you in order that the obligations of all concerned may be met as fully as is reasonably practicable. This information relates to those products detailed in our Catalogue(s) or associated literature.
- 3. Information on the design, construction and installation of our products may be found in catalogues and product leaflets of this Company, or may be obtained by specific request to the Company.
- 4. It is important that the products concerned should be installed, commissioned and maintained by, or under supervision of competent persons in accordance with:
 - BS7671 IEE Regulations for the Electrical Equipment of Buildings
 - Codes of Practice
 - Statutory requirements
 - Any instruction specifically advised by the Company The Purchaser must satisfy himself that he has complied with such requirements.

 In accordance with the provisions of the Act you are therefore requested to take such steps as are necessary to ensure that any appropriate information relevant to our products is made available by you to anyone concerned.

Low Voltage Directive

Marshall-Tufflex products that come within the scope of the Low Voltage Directive (LVD) will be CE Marked to confirm that they meet the necessary requirements of this directive.

Product colour

The colour of products shown in this catalogue are representative only.

Please note: due to different processes and materials utilised, it may not always be possible to obtain an exact colour match between the extruded and moulded product.

Unexposed parts

Unexposed parts may not always be supplied in the colours depicted in this catalogue. This will not detract in any way from the finished look of the product.

Conditions of Sale

All products are sold subject to C & C Marshall Limited Conditions of Sale (as amended from time to time), who are the principals of Marshall-Tufflex Ltd, their selling Agents, and to such other Conditions of Sale as are contained in our current price list. Copies of these Conditions of Sale are available on request.

In pursuance of our policy of continued product improvement Marshall-Tufflex reserves the right to change the design, specification or pack quantities of its products without notification.

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Perimeter and containment trunking by size

A quick reference guide to finding information on trunking, shown in size order from small to large.

PVC-U perimeter trunking systems - by size

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