

Uniclass L746/7
CI/SfB (62) X

Ackermann Specification Guide



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ACKERMANN

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CUSTOMER SERVICES

For product selection advice, quotations and assistance regarding orders and deliveries

UK CUSTOMERS

Telephone 01745 532343

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TECHNICAL SERVICES

For design advice, help with system planning, and technical guidance.

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REPUBLIC OF IRELAND CUSTOMERS

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Our total commitment to customer service reflects the growing needs of specifiers, distributors and installers

Range	Product Pages	Technical Data
Raised Floor Systems		
Interact Underfloor Power	9-16	79-80
NEW Cablelink Plus Modular	17-21	81-84
NEW Cablelink Plus Single Pan Box	23-26	85-86
Slab Boxes	27-30	
Grommets	31-34	87
DeskPod™	35-41	88
Spider	43-48	89-90
Screeded Floor Systems		
NEW Onix Plus™	49-58	91-94
NEW Cablelink Plus Screed System	59-70	95-100
Overhead Systems		
Interact Overhead Power	71-75	101-102
Hangmann	76-78	

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Ackermann is a comprehensive range of Raised Floor, Screed Floor, Flush Floor and Overhead Distribution Systems

Ackermann systems deliver power and data requirements in a wide-ranging number of applications, from commercial and retail to educational environments, providing flexible and cost-effective cable management solutions from distribution point to the user.

Established in 1919 the Ackermann name is recognised as a leader in the distribution of power and data market, a commitment to new product development, customer service excellence and technical support have made Ackermann the professionals choice.

Now, in a move to strengthen Ackermann's position at the forefront of the market, the range has been rebranded MK and has now become part of the MK Electric portfolio.

Ackermann is set to revolutionise the sector with the exciting launch of brand new and entirely redesigned ranges:

- **Cablelink Plus** – a family of Raised Floor, Screed Floor and Flush Floor Systems

- **Raised Floor Systems**

- Cablelink Plus Modular – see page 17 for full details

- Cablelink Plus Single Pan Box – see page 23 for full details

- **Screeded Floor System** – see page 59 for full details

- **Flush Floor System** – see page 71 for full details

- **Onix Plus™**

- Ackermann's innovative solution to hard floor power and data distribution range has been ardently reengineered – see page 49 for full details

Ackermann* has always listened carefully to understand our customers needs – focusing on both product functionality and installation practice – as well as striving to develop ever more innovative new products and features. Now, in a move to address the increasing demands placed on modern buildings, Ackermann is proud to announce its exciting product developments.

Specifying and installing Cablelink Plus ranges of Raised Floor, Screed Floor and Flush Floor Systems, or Onix Plus™ will provide a robust power and data distribution system that ensures:

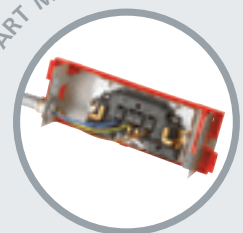
- **Superior load bearing performance** – tested to EN50085-2-2 to accept 5,000N load, 10,000N load for Onix Plus™
- **Fully supports Cat 6 structured cabling systems** – features to ensure minimum wiring spaces and bend radii are achieved
- **Fast and simple installation everytime** – new design features incorporated
- **5 year product guarantee** – quality, reliability and safety come as standard

FASTER AND SIMPLER INSTALLATION

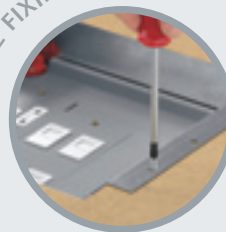
QUICK RELEASE BLADES



TWO PART MODULE



FLANGE FIXINGS

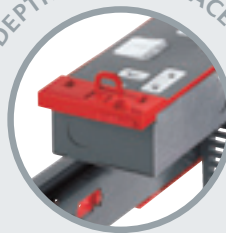


RATCHET LEVELLING SYSTEM

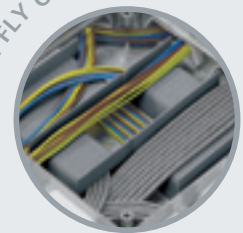


SUPPORTING CAT 6 SYSTEMS

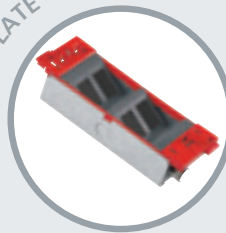
45MM DEPTH WIRING SPACE



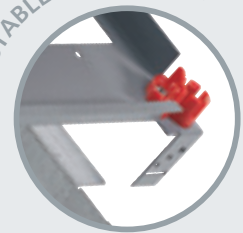
CABLE FLY OVER



WAVEPLATE



ADJUSTABLE TRAY HEIGHT



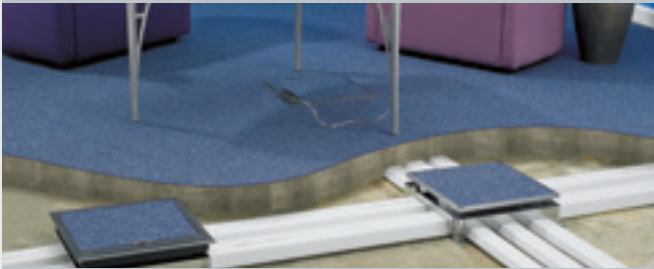
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Cablelink Plus Modular – see page 17



Cablelink Plus Single Pan Box – see page 23



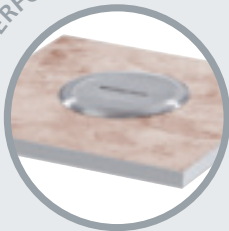
Cablelink Plus Screenshot System – see page 59



Onix Plus™ – see page 49

ROBUST DESIGN

LOAD PERFORMANCE

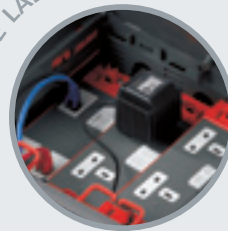


IMPROVED HANDLE



MORE NEW PRODUCT FEATURES

UNIQUE LADDER DESIGN



SELF CLOSING LID



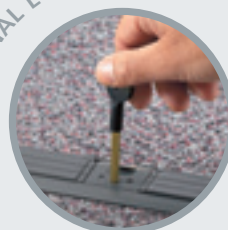
IMPROVED CORD CAPS



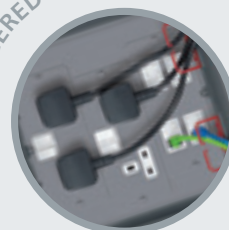
WET WASHABLE



OPTIONAL LOCKABLE LID



STAGGERED PLATES



ONIX PLUS™

* All MK products are branded MK

17th Edition of the IEE Wiring Regulations.

2008 saw the biggest change to design and installation, inspection and testing for the UK electrical industry in 15 years. MK is committed to help all our customers understand the implications and necessary actions for compliance these changes bring.

January 2008 saw the introduction of BS 7671:2008, 17th Edition of the IEE Wiring Regulations and came into full effect on 1st July 2008. Installations designed after this time will be required to comply with BS 7671:2008. The Regulations apply to the design, construction and inspection and testing of electrical installations and concern additions and alterations as well as new installations.

High Integrity Earthing

The earthing requirements for installation of equipment having high protective conductor currents, or High Integrity Earthing, could be found in the 16th Edition of the Wiring Regulations in Part 6 – Special Installations and Locations, under Section 607.

With the publication of the 17th Edition of the Wiring Regulations these requirements have moved and have been incorporated in Part 5 – Selection & Erection of Equipment, specifically in Regulation 543.7. The title remains and the requirements and methods of compliance are fundamentally unchanged.

- Powertrack Systems are recognized in the 17th Edition Wiring Regulations as a 'wiring system', located in Chapter 52 – Selection & Erection of Wiring Systems.
- Appendix 8 – added to cover both current carrying capacity and voltage drop for this type of system.
- Ackermann products have been designed to support compliance with the 17th Edition of the Wiring Regulations:
 - Cablelink Plus and Onix Plus floorboxes allow for the provision of RCD protection.
 - Cablelink Plus Modular and Single Pan ranges and Deskpod offer pre-configured variants, wired to achieve High Integrity Earthing compliance.
- Visit www.switchonmk.com to access the 17th Edition Podcast – an easy to listen, digestible 'radio show', produced in partnership with the NIC EIC and Professional Electrician and Installer magazine.
- 17th Edition CPD – 'Socket in a Shower' Continuing Professional Development – See page 42 for further details.
- Technical Services and Customer Services Teams – trained and fully conversant with the requirements of the 17th Edition of the Wiring Regulations.



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MK Design Service

Not all projects can be satisfied by specifying off-the-shelf products. There are occasions when only bespoke solutions can provide the answer to the desired power and data requirements.

The MK Design Service for Ackermann products can provide:

- pre-assembled components and products for bespoke system solutions
- terminated cables to customer requirements e.g. special cable lengths with fitted tap-offs
- pre-configured Floorboxes and DeskPods™
- special plates e.g. with specific cut outs

To facilitate fast and accurate project installations MK offers a free design, estimation and advice service to customers. Revisions, amendments and 'what-if' scenarios can be incorporated before any physical product is purchased and installed. When a design is finalised a specification output can be produced detailing product, quantities and prices.

All bespoke products are subject to an agreed specification, minimum order quantity, lead time and price.



Cablelink Plus Modular Floorboxes have been specifically engineered to ensure robustness, a faster installation and maximum life span flexibility



Cablelink Plus Single Pan Box – robust design, available with 1-4 compartments and a choice of 95mm or 70mm box depths



DeskPod™ – custom designed to meet bespoke requirements, compatible with the Interact Underfloor Power System, Cablelink Plus Floorboxes and Grommets

www.ex-or.com

Ex-Or has been developing, manufacturing and installing Lighting Management Systems since 1984. Continually striving to create new technology, whilst maintaining quality and ensuring system reliability.

In April 2005, Honeywell International Inc. acquired MK Electric and in June 2007, Ex-Or also joined Honeywell's Environmental Controls and Combustion (ECC) business unit.



For further information, please call 01942 719229 or visit www.ex-or.com



Lightspot – Presence Detection Systems

Lightspot detectors operate on the basis of presence detection; lights switch on automatically when they are needed and off when they are not. For areas where natural light is good, there are versions incorporating photocells to regulate light output accordingly.

- Energy savings
- Convenience of automatic switching
- Straightforward installation

MLS Digital – Managed Lighting System

Provides a flexible and user responsive, building wide managed lighting system via a network of communicating presence detectors.

MLS offers:

- Energy savings via daylight regulation and presence detection
- Zoned lighting for convenience and visual comfort
- Scene setting facility
- Simple installation
- Simple commissioning by a hand-held programmer

Ex-Or CONNECT Range

Offers Plug-in simplicity via a range of purpose designed connection centres offering varying degrees of sophistication.

CONNECT offers:

- Quicker and easier installation for time and cost savings
- Elimination of wiring faults as pre-wired luminaires and detectors are delivered direct to site
- Flexibility as luminaires and detectors can be changed or re-positioned without major disruption

Ex-Or offer a comprehensive support service from initial design to project management. For further information, please call 01942 719229 or visit www.ex-or.com

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raised floor systems



range introduction

Interact Underfloor Power is a low profile track system catering for single and multi-circuit applications, specifically designed to ensure a fast and simple installation.

It is suitable for standard, clean earth, uninterrupted or dedicated power supplies and allows power throughout the building.

feature benefits

- Patented 'snap fast' crocodile joints
- Available in 40A and 63A
- Dual tap-off for twin system offers simple 'single fit' installation
- Key coded and colour coded tap-offs
- Powertrack with integral end feed available
- Complies with the requirements of BS EN61534
- Complies with the requirements of BS 7671:2008 IEE Wiring Regulations (17th Edition)
- Quality, reliability and safety as standard
- 5 year guarantee

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KEY CODED TRACK

- Prevents inadvertent mixing of configurations

**TRACK INTERLINKS AVAILABLE**

- Flexibility to achieve maximum floor coverage

**AVAILABLE IN 40A AND 63A**

- Flexible to suit project requirements
- Lower rating opens opportunities for low cost installations

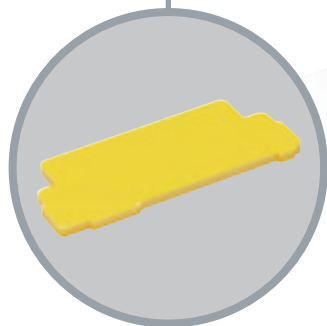
SIMPLIFIED TRACK ORDERING

Track comes complete with:

- Dust Covers
- End Caps
- Fixing Bracket
- Crocodile Joints

A GENUINE TWIN TRACK SYSTEM

- Clean Earth and Standard Earth in one single track
- Single fitting of two circuits for speed of installation

**BUILT IN END PLATE**

- Yellow plastic end plate comes as standard

PRE-ATTACHED SLIDING DUST COVERS

- Keeps track clean prior to and during installation



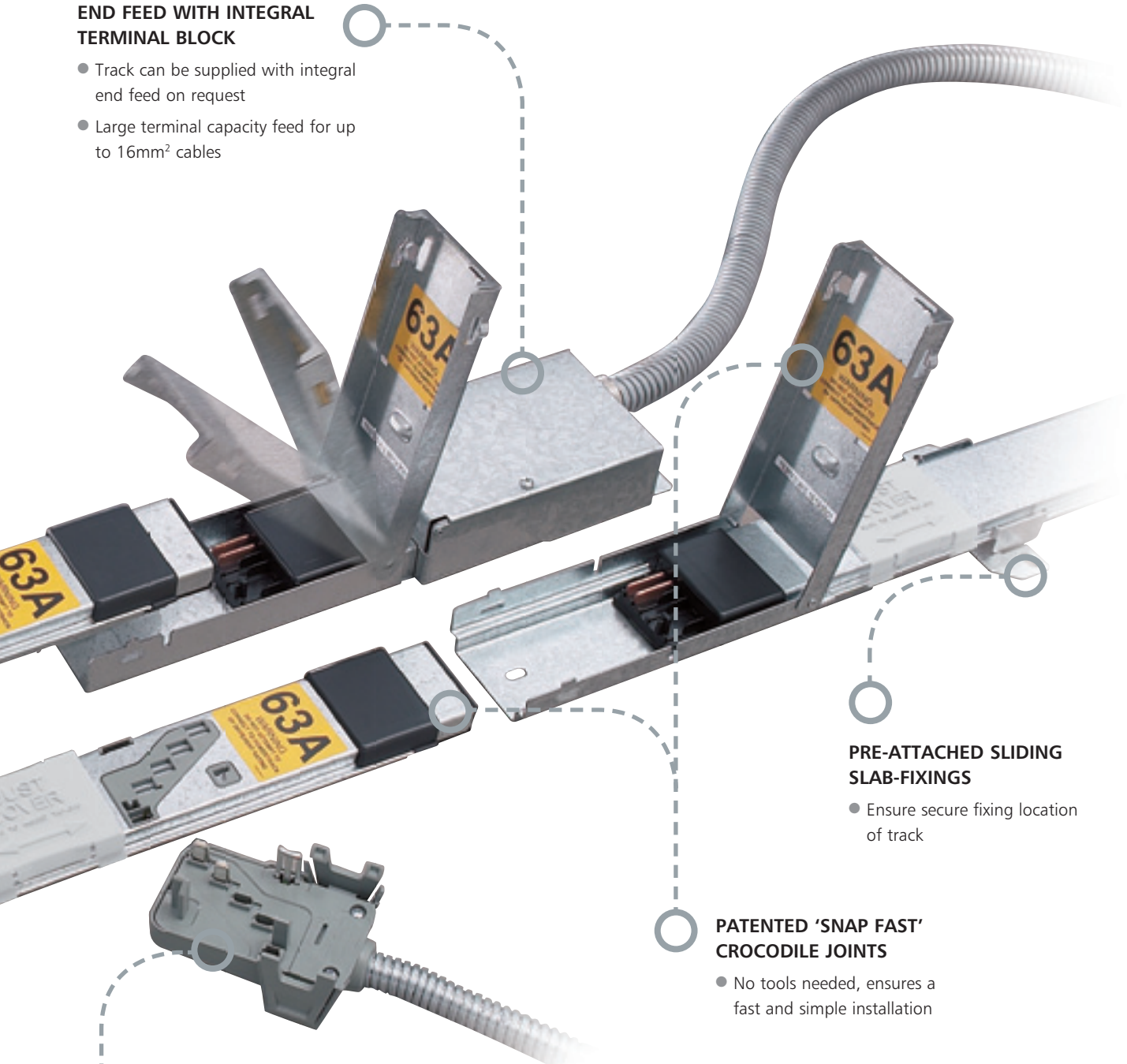
DESIGNED FOR USE WITH CABLELINK PLUS MODULAR AND CABLELINK PLUS SINGLE PAN FLOORBOXES

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END FEED WITH INTEGRAL TERMINAL BLOCK

- Track can be supplied with integral end feed on request
- Large terminal capacity feed for up to 16mm² cables



PRE-ATTACHED SLIDING SLAB-FIXINGS

- Ensure secure fixing location of track

PATENTED 'SNAP FAST' CROCODILE JOINTS

- No tools needed, ensures a fast and simple installation

KEY CODED AND COLOUR CODED TAP-OFFS AND SOCKETS

- Provides mechanical protection against cross pole contamination

PITCH SPACINGS

- Choice of 600mm, 300mm or 150mm spacings
- Enables tap-off to be fitted at regular intervals

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63 AMP SYSTEM

63 Amp Track

STANDARD GREY
SPNAUX GREEN
SINGLE PHASECLEAN EARTH
RED
CE3 PHASE GREEN
TPNDUAL CE & STD
RED / GREY
DUAL

1.2M TRACK

PE is earthed to case

PE is earthed to case

Pitch 150mm 7 sockets	UB61213 GRY	UB61213 GRN	UB61214 RED	UB61215 GRN	UB61216 DUO
Pitch 300mm 4 sockets	UB61233 GRY	UB61233 GRN	UB61234 RED	UB61235 GRN	UB61236 DUO
Pitch 600mm 2 sockets	UB61263 GRY	UB61263 GRN	UB61264 RED	UB61265 GRN	UB61266 DUO

2.4M TRACK

Pitch 150mm 15 sockets	UB62413 GRY	UB62413 GRN	UB62414 RED	UB62415 GRN	UB62416 DUO
Pitch 300mm 8 sockets	UB62433 GRY	UB62433 GRN	UB62434 RED	UB62435 GRN	UB62436 DUO
Pitch 600mm 4 sockets	UB62463 GRY	UB62463 GRN	UB62464 RED	UB62465 GRN	UB62466 DUO

3.6M TRACK

Pitch 150mm 23 sockets	UB63613 GRY	UB63613 GRN	UB63614 RED	UB63615 GRN	UB63616 DUO
Pitch 300mm 12 sockets	UB63633 GRY	UB63633 GRN	UB63634 RED	UB63635 GRN	UB63636 DUO
Pitch 600mm 6 sockets	UB63663 GRY	UB63663 GRN	UB63664 RED	UB63665 GRN	UB63666 DUO

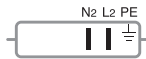
All 63A underfloor powertrack incorporate shutters and are rated to IP4X. Complies with the requirements of BS EN61534.
Track comes with the following slab mounting brackets: 1.2m = 1, 2.4m = 1, 3.6m = 2



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63 AMP SYSTEM



STANDARD GREY



AUX GREEN



CLEAN EARTH RED



3 PHASE GREEN



DUAL CE & STD RED / GREY

End Feeds



STANDARD GREY	AUX GREEN	CLEAN EARTH RED	3 PHASE GREEN	DUAL CE & STD RED / GREY
Standard				
UF63 GRY	UF63 GRN	UF64 RED	UF65 GRN	UF66 DUO
Opposite End Feed				
UF63 GRY LH	UF63 GRN LH	UF64 RED LH	UF65 GRN LH	UF66 DUO LH

Each opposite End Feed comes with an end cap to close off the powertrack run.
Terminal Capacity = 16mm².

Integral Feed Track



STANDARD GREY	AUX GREEN	CLEAN EARTH RED
1.2m* pitch 300mm 4 sockets		
IFUB61233 GRY	IFUB61233 GRN	IFUB61234 RED
2.4m* pitch 300mm 8 sockets		
IFUB62433 GRY	IFUB62433 GRN	IFUB62434 RED
3.6m* pitch 300mm 12 sockets		
IFUB63633 GRY	IFUB63633 GRN	IFUB63634 RED

* Nominal length of Interact Underfloor Power excluding feed section. Feed section is 100mm in length.

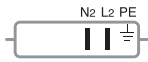
Flexible Interlinks



STANDARD GREY	AUX GREEN	CLEAN EARTH RED	3 PHASE GREEN	DUAL CE & STD RED / GREY
1.2m				
UI6312 GRY	UI6312 GRN	UI6412 RED	UI6512 GRN	UI6612 DUO
2.4m				
UI6324 GRY	UI6324 GRN	UI6424 RED	UI6524 GRN	UI6624 DUO
3.6m				
UI6336 GRY	UI6336 GRN	UI6436 RED	UI6536 GRN	UI6636 DUO

40 AMP SYSTEM

40 Amp Track



STANDARD GREY
SPN



AUX GREEN
SINGLE PHASE



CLEAN EARTH
RED CE



3 PHASE GREEN
TPN



DUAL CE & STD
RED / GREY
DUAL



LENGTH 1.2M

Pitch 600mm 2 sockets	UB41263 GRY	UB41263 GRN	UB41264 RED	UB41265 GRN	UB41266 DUO
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LENGTH 2.4M

Pitch 600mm 4 sockets	UB42463 GRY	UB42463 GRN	UB42464 RED	UB42465 GRN	UB42466 DUO
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LENGTH 3.6M

Pitch 600mm 6 sockets	UB43663 GRY	UB43663 GRN	UB43664 RED	UB43665 GRN	UB43666 DUO
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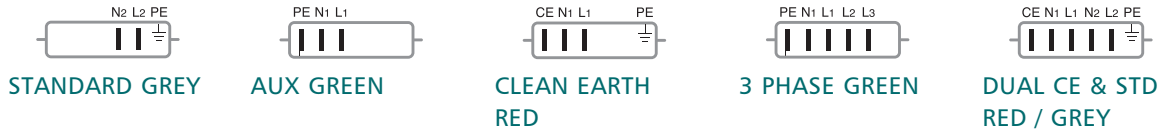
All 40A underfloor powertracks incorporate shutters and are rated to IP4X.
300mm pitch is available on special request.
Complies with the requirements of BS EN61534.
Track comes with the following brackets: 1.2m = 1, 2.4m = 1, 3.6m = 2



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40 AMP SYSTEM



End Feeds



STANDARD GREY	AUX GREEN	CLEAN EARTH RED	3 PHASE GREEN	DUAL CE & STD RED / GREY
Standard				
UF43 GRY	UF43 GRN	UF44 RED	UF45 GRN	UF46 DUO
Opposite End Feed				
UF43 GRY LH	UF43 GRN LH	UF44 RED LH	UF45 GRN LH	UF46 DUO LH

Each opposite End Feed comes with an end cap to close off the end of the powertrack run.
Terminal Capacity = 16mm².

Integral Feed Track



STANDARD GREY	AUX GREEN	CLEAN EARTH RED
1.2m* pitch 300mm 4 sockets		
IFUB41233 GRY	IFUB41233 GRN	IFUB41234 RED
2.4m* pitch 300mm 8 sockets		
IFUB42433 GRY	IFUB42433 GRN	IFUB42434 RED
3.6m* pitch 300mm 12 sockets		
IFUB43633 GRY	IFUB43633 GRN	IFUB43634 RED

* Nominal length of Interact Underfloor Power excluding feed section. Feed section is 100mm in length.

Flexible Interlinks



STANDARD GREY	AUX GREEN	CLEAN EARTH RED	3 PHASE GREEN	DUAL CE & STD RED / GREY
1.2m				
UI4312 GRY	UI4312 GRN	UI4412 RED	UI4512 GRN	UI4612 DUO
2.4m				
UI4324 GRY	UI4324 GRN	UI4424 RED	UI4524 GRN	UI4624 DUO
3.6m				
UI4336 GRY	UI4336 GRN	UI4436 RED	UI4536 GRN	UI4636 DUO

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Tap-off Leads



TYPE	PIN POSITION			CABLE / CONDUIT	CURRENT RATING	PROTECTION	3 METRE**		5 METRE*		KEY CODES†		
							2.5mm ²	4.0mm ²	2.5mm ²	4.0mm ²			
STANDARD GREY				N2 L2 PE	LSF / LSF	13A	Fused	UT31301C		UT51301C			
					16mm	32A	Unfused		UT33201		UT53201		
					16mm	13A	Fused	UT31301		UT51301			
AUX / PHASE 1 GREEN	PE	N1	L1		LSF / LSF	13A	Fused	UT31302C		UT51302C			
					16mm	32A	Unfused		UT33202		UT53202		
					16mm	13A	Fused	UT31302		UT51302			
PHASE 2 GREEN	PE	N1	L2		LSF / LSF	13A	Fused	UT31310C		UT51310C			
					16mm	32A	Unfused		UT33210		UT53210		
					16mm	13A	Fused	UT31310		UT51310			
PHASE 3 GREEN	PE	N1		L3	LSF / LSF	13A	Fused	UT31311C		UT51311C			
					16mm	32A	Unfused		UT33211		UT53211		
					16mm	13A	Fused	UT31311		UT51311			
ALL PHASE GREEN	PE	N1	L1	L2	L3	16mm	28A	Unfused		UT33205		UT53205	
CE RED	CE	N1	L1		PE	LSF / LSF	13A	Fused	UT31304C		UT51304C		
					16mm	32A	Unfused		UT33204		UT53204		
					16mm	13A	Fused	UT31304		UT51304			
DUO (RED)	CE	N1	L1	N2	L2	PE	20mm	28A	Unfused		UT33206		UT53206

4m tap-offs and other alternatives are available on request via MK Design Service, See page 7.

Tap-offs are supplied as single cables inside steel flexible conduit, except those with 'C' suffix, which are supplied with 3 or 4 core LSF flex, as appropriate.

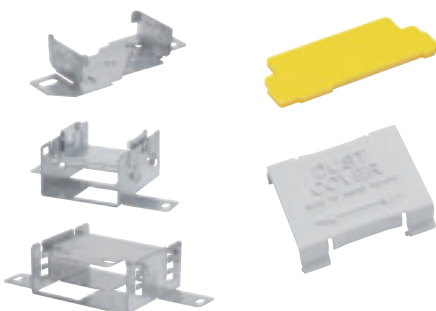
* Unfused tap-offs in excess of 3m, can only be used on powertrack protected with a 32A (or less) circuit protection device.

** When fully stretched to ensure the conductor lengths do not exceed 3m to comply with BS 7671:2008 17th Edition IEE Wiring Regulations to ensure the conduit remains flexible this is then shortened by a further 0.1 - 0.2 of slack when wired to a module.

† Key codes shown are from the perspective of the Power Track socket, the tap-off key code will be a mirror image when viewed from underneath. Add 'DE' suffix for Dual Earth High Integrity Earthing^{††}, e.g. UT51301DE. Unfused tap-offs – High Integrity Earthing^{††} as standard.

Fused tap-offs – add '607' suffix for High Integrity Earthing^{††}, e.g. UT51301607

Other components



PART NO.	DESCRIPTION
UK1	Additional slab brackets
UK3	Additional end plates
UK5*	Height adjustable slab bracket – track 17mm, 27mm and 39mm
UK5F*	Height adjustable slab bracket – end feed 17mm, 27mm and 39mm
UKDC	Additional dust cover

* Fixing brackets should be positioned within 300mm from either end of a track run and either side of all joints.

Minimum support requirement 3.6m length = 4 brackets, 2.4m length = 3 brackets, 1.2m length = 2 brackets.



†† In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

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raised floor systems



range introduction

Cablelink Plus Modular Floorboxes have been specifically engineered to ensure robustness, a faster installation and maximum life span flexibility.

The unique "Ladder" design enables modules to be positioned at lower heights within the box to cater for Cat 6 patch leads, transformer plug tops and audio visual applications. The design allows the complete box and modules to be easily installed and removed.

feature benefits

- Tested to EN50085-2-2 to accept 5000N load
- Unique ladder design
- Quick release blades ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Choice of two frame sizes provide 3 and 4 module solutions to suit all applications
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

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Cablelink Plus Modular Floorbox

**TESTED TO EN50085-2-2
TO ACCEPT 5000 LOAD**

OUTLET BOX COLOUR

- 'Grey' or 'Light Grey' option

ROBUST CORD CAPS

- Designed for improved retention

HANDLE

- Designed for improved accessibility

8MM RECESSED LID

- Simple carpet cut out
- Easily removable and reversible for improved accessibility
- Can be hinged from either of two sides
- Self Closing in accordance with IEC 61534-22

OPTIONAL LOCKABLE LID

- Added security when not in use

OPTIONAL CABLE RETAINER CLIPS

SQUARE BOX OPTION

- 90° rotation of floorbox for system flexibility

OPTIONAL LID TETHER

- Added security
- Eliminates lid losses

ONE PIECE MOULDED FRAME

- Simple ordering of product
- Faster installation

LADDER DESIGN

- Modules can be positioned at different heights
- Increased clearance for Cat 6 patch leads, transformer plugs and audio visual applications

MODULES

- Design enables modules to be installed/removed whilst box still in situ
- Left and right handed power plates provide plug top cable strain relief
- Pre-wired power modules available for quicker installation
- Cat 5e, 6, 6A and fibre solutions available

BLADES

- Quick release blades to secure firmly in position for a "fit and forget" installation
- No tools required for faster installation
- Self adjusting blades – ensures floorbox remains secure throughout service life
- Fixes to floor thicknesses of 15-50mm



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raised floor systems

Cablelink Plus Modular Floorbox

The Modular Floorbox and Modules are ideal for use with the Interact Underfloor Power System – see page 9 for details.

Modular Floorbox selector guide

- Modular Floorboxes are ordered as a single assembly – “Frame and Lid”
- Floorbox – select number of compartments required, choice of trim colour and lockable lid
- Accessory Modules – select from wide range of serviced power and unserviced data options
- Optional Extras – e.g. lid tether and cable retainers available if required
- A selection of pre-configured modular floorboxes are available (see page 21 for details):
 - Switch socket outlets, data and blank modules
 - Optional pre-wired modules to tap-offs
 - Optional tap-off lengths – 3m or 5m

Floorbox



BOX SIZE	265 x 265mm	340 x 265mm
COMPARTMENT	3	4
100–124mm Depth	CRMB265-3GRY* CRMB265-3LGY*	CRMB340-4GRY* CRMB340-4LGY*

* Lockable option available – add suffix ‘L’ e.g. CRMB265-3GRYL. Floorbox lids must never be locked whilst in use. Box not supplied with key. Supplied complete as floorbox with 8mm recess lid. Smaller 1 or 2 compartment floorbox available in Cablelink Plus Single Pan Box, see page 23 for more details. For pre-configured options available – see page 21.

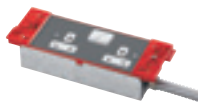
Accessory Modules

The conduit entry faces are integral with the accessory plate, enabling quick termination to the power or data plate and facilitates the remaining part of the back box to be fitted quickly with no risk to wiring being damaged.

Serviced Power Modules



Left Hand Module – CRM11730

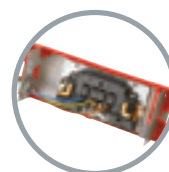


Right Hand Module – CRM11730RH

DESCRIPTION	LEFT HAND MODULES	
	STANDARD	CLEAN EARTH
2G 13A Switch Socket Outlet	CRM11730*	CRM11730CE*
2G 13A Switch Socket Outlet Non Standard (T Pin)	CRM11730NS*	CRM11730NSCE*
2G 13A Socket Outlet	CRM11731*	
2G 13A Socket Outlet Non Standard (T Pin)	CRM11731NS*	
2G 13A 30mA Passive RCD Switch Socket Outlet	CRM11735*	
2G 13A Angled Socket Outlet	CRM11745	CRM11745CE
3G 13A Socket Outlet	CRM11720	CRM11720CE
4G 13A Switch Socket Outlet†	CRM11750	CRM11750CE
4G 13A Socket Outlet	CRM11751	
4G 13A Socket Outlet Non Standard (T Pin)	CRM11751NS	
4G 13A Switch Socket Outlet Non Standard (T Pin)†		CRM11750NSCE
2G 16A 2P+E German Socket Outlet NON UK	CRM11740	
2G 15A 127V USA Socket Outlet NON UK	CRM11741	

Additional plates are available via the design service, see page 7

- Modules are available Left Hand and Right Hand to achieve a ‘staggered’ arrangement
- ‘Staggered’ arrangement ensures strain relief clearance for moulded plug tops
- Add ‘RH’ suffix for Right Hand Module, e.g. CRM11730RH
- When four socket outlets are required, order CRM11750 as ‘staggered’ arrangement is built in
- For more detail on how to order and configure your Cablelink Plus Modular Floorbox, please see page 89-92



Modules have unique two piece design to provide quick and safe installation.

Clean Earth switched power modules are identified with red rockers, unswitched with red sockets.

† Double module size with staggered arrangement to provide strain relief clearance for moulded plugs.

* Add ‘RH’ suffix for Right Hand Module, e.g. CRM11730RH

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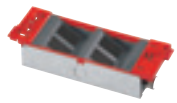
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Accessory Modules

Unserviced Data Modules



CRM21201



CRM21215

PART NO.	DESCRIPTION
CRM21101	2 x LJU/2 Apertures
CRM21201	4 x LJU6C Apertures (KNOCKOUTS)
CRM21301	6 x LJU6C Apertures
CRM21500	4 x ST Fibre Connector Apertures
CRM21215*	4 x LJU6C Aperture Wave Plate
CRM21117	4 x Alphasnap Apertures
CRM31501	2 x Euro 50x50mm Apertures
CRM31502	2 x 45x45mm Apertures
CRM31503	1 x Euro 150x50mm Aperture
CRM31261	2 x IBM LAN
CRM31341	2 x BNC
CRM31361	4 x BNC
CRM21205	4 x KRONE RJ45

Earthing studs are provided on all Unserviced data modules to enable a reliable connection to earth to be made. Earthing Kit CX-10 is recommended for use to ensure the earthing cable is connected correctly.

* Larger back boxes are available on request via the design service, see page 7.

Other Modules



CRM7000

PART NO.	DESCRIPTION
CRM31201	Blank Module
CRM7000	Cable Dump

Optional Extras



Lid Tether

PART NO.	DESCRIPTION
CX-01	Cable Retainers – pack of 10
CX-02	Lid Tether Kit – pack of 5
CX-04GRY	Cord Cap for 265x265 and 340x265mm Lid – Grey
CX-04LGY	Cord Cap for 265x265 and 340x265mm Lid – Light Grey
CX-10	Earthing Kit – pack of 10
CRXKEY	Lock Key – pack of 2
CXLP265	Lid Packer 265x265 2mm
CXLP340	Lid Packer 340x265 2mm
CRMA-1	Cutting template for 265x265mm floorbox
CRMA-2	Cutting template for 340x265mm floorbox

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Pre-Configured Range

To aid fast and simple product selection, storage and installation, a selection of popular pre-configured floorboxes are available to order:

- 2, 3 or 4 module options
- Supplied with Serviced Power and/or Unserviced Data Plates
- Choice of standard modules or pre-wired to a unfused tap-off
- Pre-wired boxes supplied with a choice of 3m or 5m fused tap-off, High Integrity Earthing compliance[†] as standard

2 Module Configuration – 265x265mm Floorbox

	PART NO.	MODULE 1	MODULE 2	MODULE 3	TAP-OFF
	CRM321	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRM321W	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m

All modules supplied set at 90mm from top of lid to base of module.

Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

3 Module Configurations – 265x265mm Floorbox

	PART NO.	MODULE 1	MODULE 2	MODULE 3	TAP-OFF
	CRM333	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRM333W	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRM334	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	NA
	CRM334W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRM336	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	NA
	CRM336W	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	UT33204 CE Red 4mm ² 3m

Tap-offs are also available in 5m options, add suffix '-5,' e.g. CRM321W-5. Please note this tap-off is unfused, the track must be derated to a max of 32A

All modules supplied set at 90mm from top of lid to base of module.

Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

4 Module Configurations – 340x265mm Floorbox

	PART NO.	MODULE 1	MODULE 2	MODULE 3	MODULE 4	TAP-OFF
	CRM431	2G Switch Socket Outlet	Blank	Blank	4G Data Plate LJU6C	NA
	CRM431W	2G Switch Socket Outlet	Blank	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRM433	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRM433W	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRM434	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRM434W	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRM436	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	Blank	4G Data Plate LJU6C	NA
	CRM436W	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	Blank	4G Data Plate LJU6C	UT33204 CE Red 4mm ² 3m
	CRM444	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRM444W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m

Tap-offs are also available in 5m options, add suffix '-5,' e.g. CRM321W-5. Please note this tap-off is unfused, the track must be derated to a max of 32A

All modules supplied set at 90mm from top of lid to base of module.

Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

[†]In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

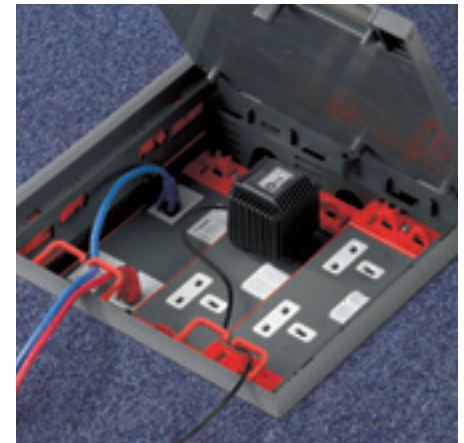
Continuing Professional Development through the MK Electric Technical Seminar Programme

TITLE	BRAND REPRESENTED	DESCRIPTION	EXTERNAL APPROVAL
High Integrity Earthing	MK Electric Ackermann	A review of the requirements of BS 7671:2008 in relation to the earthing requirements for the installation of equipment with high circuit protective conductor currents, the reasons behind it, the requirements and methods of compliance.	Construction CPD Service

Duration:
1 hour

Who should attend:
Electrical Contractors, Specifiers & Consultants

Recent years have seen a huge increase in Information Technology equipment, this brings with it implications for the electrical installation. This seminar takes into account this type of equipment and looks in detail how the electrical installation has to comply with the requirements of BS 7671:2008 – Earthing Requirements For The Installation Of Equipment Having High Protective Conductor Currents.



Content

- Why is the Regulation necessary
- Criteria & installation issues
- The Regulations
- Ring & radial circuits



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raised floor systems



range introduction

Cablelink Plus Single Pan Box provides an effective interface between services beneath the floor and the office environment.

Designed to offer robustness and constructed with a single piece metal frame, the floorbox is available with 1 to 4 compartments and a choice of 95mm or 70mm box depths to cater for floor voids of restricted space.

feature benefits

- Tested to EN50085-2-2 to accept 5000N load
- The range incorporates design features to ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- 70mm pan depth has been designed for those applications with shallow voids
- Device plate can be adjusted to provide increased wiring space or greater plug top clearance
- Self closing lid in accordance with IEC 61534-22
- Floorboxes are IP2X rated in accordance with BS EN50085-1
- Wide range of power and data accessory plates available to meet all requirements
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

raised floor systems

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Cablelink Plus Single Pan Box

TESTED TO EN50085-2-2
TO ACCEPT 5000N LOAD

ROBUST CORD CAPS

- Designed for improved retention

OUTLET BOX COLOUR

- 'Grey' or 'Light Grey' option

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

CABLE RETAINERS

- Supplied as standard

FLANGE FIXINGS

- Fast and simple installation

WIDE RANGE OF POWER AND DATA PLATES

- Suitable for all applications
- Pre-configured options available for fast and simple installation on site

HANDLE

- Designed for improved accessibility

LID

- Simple carpet cut out
- Easily removable and reversible for improved accessibility
- Lid can be hinged from either of two sides
- Self closing in accordance with IEC 61534-22

OPTIONAL LOCKABLE LID

- Added security when not in use

OPTIONAL TETHER

- Added security
- Eliminates lid losses

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Device plate can be positioned to provide 35mm or 45mm wiring space for Cat 6 compliance for 95mm depth floorbox, 25mm or 35mm for 70mm floorbox
- Stagger only available with 3 and 4 compartment floorboxes

ONE PIECE FRAME

- Robust metal design
- 95mm and 70mm pan depths available
- 70mm pan depth is ideal for shallow floor voids

SIDE KNOCKOUTS

- Pre-cut for fast and simple installation



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raised floor systems

Cablelink Plus Single Pan Box

The Single Pan Box is ideal for use with the Interact Underfloor Power System – see page 9 for more details.

Floorbox selector guide

- Floorboxes are ordered as one part – “Box, Frame and Lid”
- Box – select number of compartments required, box depth and choice of trim colour
- Accessory Plates – select from wide range of power and data options
- Optional Extras – e.g. lid tether and cable retainer available if required

Floorbox



BOX SIZE	100 x 200mm**	200 x 200mm	265 x 265mm	340 x 265mm
COMPARTMENT	1	2	3	4
70mm Depth	CRB100UK-70-1GRY CRB100UK-70-1LGY	CRB200UK-70-2GRY* CRB200UK-70-2LGY*	CRB265UK-70-3GRY* CRB265UK-70-3LGY*	CRB340UK-70-4GRY* CRB340UK-70-4LGY*
	CRB100UK-1GRY CRB100UK-1LGY	CRB200UK-2GRY* CRB200UK-2LGY*	CRB265UK-3GRY* CRB265UK-3LGY*	CRB340UK-4GRY* CRB340UK-4LGY*

* Lockable option available – add suffix ‘L’ e.g CRB265UK-3GRYL. **Floorbox lids must never be locked whilst in use. Box not supplied with key.** 95mm depth floorbox device plate is supplied fitted to provide 35mm wiring space with the option to 45mm allowing for Cat 6 compliance. 70mm depth floorbox device plate is supplied fitted to provide 35mm wiring space with the option to 25mm allowing for greater plug top clearance. Spare lids and frames are available, please see page 63 for details. If wiring space is 25mm, use side wired socket outlets – see Accessory Plates below. For 200x200mm bases, use ‘Compact’ power and data plates only from the table below. ** These boxes will only accept CXP10745

Accessory Plates

Accessory plates are common to most ranges, they will fit all Cablelink Plus Single Pan, Screed, Flush and Onix Plus™ Floorboxes.

Standard Plates are for use with 100x200mm, 265x265mm and 340x265mm Floorboxes.

Compact Plates are for use with 200x200mm Floorboxes only. Both Standard and Compact Plates are supplied in Light Grey (LGY) finish.

Serviced Power Plates

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP10730**	CXPC10730**	2G 13A Switch Socket Outlet
CXP10730NS**	CXPC10730NS**	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731*	CXPC10731*	2G 13A Socket Outlet
CXP10731NS*	CXPC10731NS*	2G 13A Socket Outlet Non-Standard (T Pin)
CXP10745*	CXPC10745*	2G 13A Angled Socket Outlet
CXP10735	CXPC10735	2G 13A RCD 30mA Passive Switch Socket Outlet **
CXP10760		2G 13A Switch Socket Outlet – Side Wired
CXP10720*		3G 13A Socket Outlet
CXP10740	CXPC10740	2G 16A 2P+E German Socket Outlet ** NON UK
CXP10741	CXPC10741	2G 15A 127V USA Socket Outlet - NON UK

* For Clean Earth wiring – add suffix ‘CE’ e.g CXP10730CE.

Clean Earth Switched Power plates are identified with red rockers, unswitched with red sockets.

**requires a 45mm wiring space, not suitable with 70mm depth boxes

* Supplied with the MK Electric 3-pin safety shutter as standard.

Compact Plates (power and data) are for use with 200x200mm base only.

If 2 socket plates are required in the 200x200 base, then only CXPC10745 / CXPC10745CE can be used.

Optional Extras



Lid Tether




PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
CX-01	Cable Retainers. Pack of 10	CXLP100	Lid Packer 100x200 2mm. Pack of 10
CX-02	Lid Tether Kit. Pack of 5	CXLP200	Lid Packer 200x200 2mm. Pack of 10
CX-03LGY	Cord Cap for 100x200mm and 200x200mm lid - Light Grey. Pack of 10	CXLP265	Lid Packer 265x265 2mm. Pack of 10
		CXLP340	Lid Packer 340x265 2mm. Pack of 10
CX-03GRY	Cord Cap for 100x200mm and 200x200mm Lid - Grey. Pack of 10	CRXKEY	Lock Key. Pack of 2
		CXT-100	Cutting template 100x200mm
CX-04LGY	Cord Cap for 265x265mm and 340x265mm Lid - Light Grey. Pack of 10	CXT-200	Cutting template 200x200mm
		CXT-265	Cutting template 265x265mm
CX-05	Ratchet levelling system. Pack of 10	CXT-340	Cutting template 340x265mm

Unserviced Data Plates

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP20101	CXPC20101	2x LJU/2 Apertures
CXP20200	CXPC20200	2x LJU6C Apertures
CXP20201*	CXPC20201*	4x LJU6C Apertures (KNOCKOUTS)
CXP20215	CXPC20215	4x LJU6C Wave Apertures
CXP20205	CXPC20205	4x Krone Apertures
CXP20301	CXPC20301	6x LJU6C Apertures
CXP30501	CXPC30501	2x Euro 50x50mm Apertures
CXP30503		1x Euro 150x50mm Aperture
CXP30502	CXPC30502	2x 45x45mm Module Apertures
CXP20117	CXPC20117	4x Alphasnap (Aperture 47.5mm x 23.6mm)
CXP20500	CXPC20500	4x ST Fibre Connector Apertures
CXP30201	CXPC30201	Blank Plate


* Data apertures are supplied as knockouts.

1 Compartment Configuration – 100x200mm Floorbox

	PART NO.	ACCESSORY PLATE 1	TAP-OFF
	CRP100-RCD	RCD Socket	NA
	CRP101	2G 13A Angled/Unswitched Socket Outlet	NA
	CRP121	1G 13A Switch Socket and 2x LJU6C aperture	NA





Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

2 Compartment Configurations – 200x200mm Floorbox

	PART NO.	ACCESSORY PLATE 1	ACCESSORY PLATE 2	TAP-OFF
	CRP221	2G Switch Socket Outlet	4G Data Plate LJU6C	NA
	CRP221W	2G Switch Socket Outlet	4G Data Plate LJU6C	UT33201

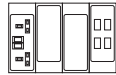




Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

3 Compartment Configurations – 265x265mm Floorbox

	PART NO.	ACCESSORY PLATE 1	ACCESSORY PLATE 2	ACCESSORY PLATE 3	TAP-OFF
	CRP321	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRP321W	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP333	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRP333W	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP334	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	NA
	CRP334W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP336	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	NA
	CRP336W	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	UT33204 CE Red 4mm ² 3m

Tap-offs are also available in 5m options, add suffix '-5,' e.g. CRP321W-5. Please note this tap-off is unfused, the track must be derated to a max of 32A. Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.

4 Compartment Configurations – 340x265mm Floorbox

	PART NO.	ACCESSORY PLATE 1	ACCESSORY PLATE 2	ACCESSORY PLATE 3	ACCESSORY PLATE 4	TAP-OFF
	CRP431	2G Switch Socket Outlet	Blank	Blank	4G Data Plate LJU6C	NA
	CRP431W	2G Switch Socket Outlet	Blank	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP433	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRP433W	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP434	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRP434W	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m
	CRP436	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	Blank	4G Data Plate LJU6C	NA
	CRP436W	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	Blank	4G Data Plate LJU6C	UT33204 CE Red 4mm ² 3m
	CRP444	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRP444W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 Grey 4mm ² 3m

Tap-offs are also available in 5m options, add suffix '-5,' e.g. CRP321W-5. Please note this tap-off is unfused, the track must be derated to a max of 32A. Supplied as Grey (GRY) finish, Light Grey (LGY) finish available via MK Design Service, see page 7.



*In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

Pre-Configured Range

To aid fast and simple product selection, storage and installation, a selection of popular pre-configured 95mm floorboxes are available to order:

- 1, 2, 3 or 4 compartment options
- Supplied with Serviced Power and/or Unserviced Data Plates (Light Grey finish)
- Choice of standard plates or pre-wired to a tap-off
- Pre-wired boxes supplied with a choice of 3m or 5m unfused tap-offs. High integrity Earthing compliant as standard. Also if 5m is required then track must be derated to 32A max
- Unwired boxes - plates supplied but not fitted

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raised floor systems



range introduction

The Slab Box provides the same services (power and data) as a floorbox, but with the benefit of a more aesthetically pleasing grommet access.

feature benefits

- **Flexible and cost effective underfloor solution**
- **Fast and efficient installation**
- **Use in conjunction with a grommet for an aesthetic alternative to floorboxes**
- **Wide range of power and data accessories available to meet all requirements**
- **Quality, reliability and safety comes as standard**
- **Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations**
- **5 year guarantee**

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CONNECTION POINT FOR THE DISTRIBUTION OF POWER AND DATA SERVICES

- Flexible and cost effective underfloor solution

WIDE RANGE OF POWER SOCKETS, DATA PLATES AND OUTLETS

- Comprehensive range to meet all requirements
- Product quality guaranteed

SLAB BOXES CAN BE SUPPLIED PRE-WIRED TO AN INTERACT TAP-OFF

- Fast and efficient installation

CABLE OUTLET VIA THE GROMMET

- Aesthetically less obtrusive alternative to other underfloor solutions
- Facilitates minimum floor disruption

CAT 5E, 6, AND FIBRE SOLUTIONS AVAILABLE

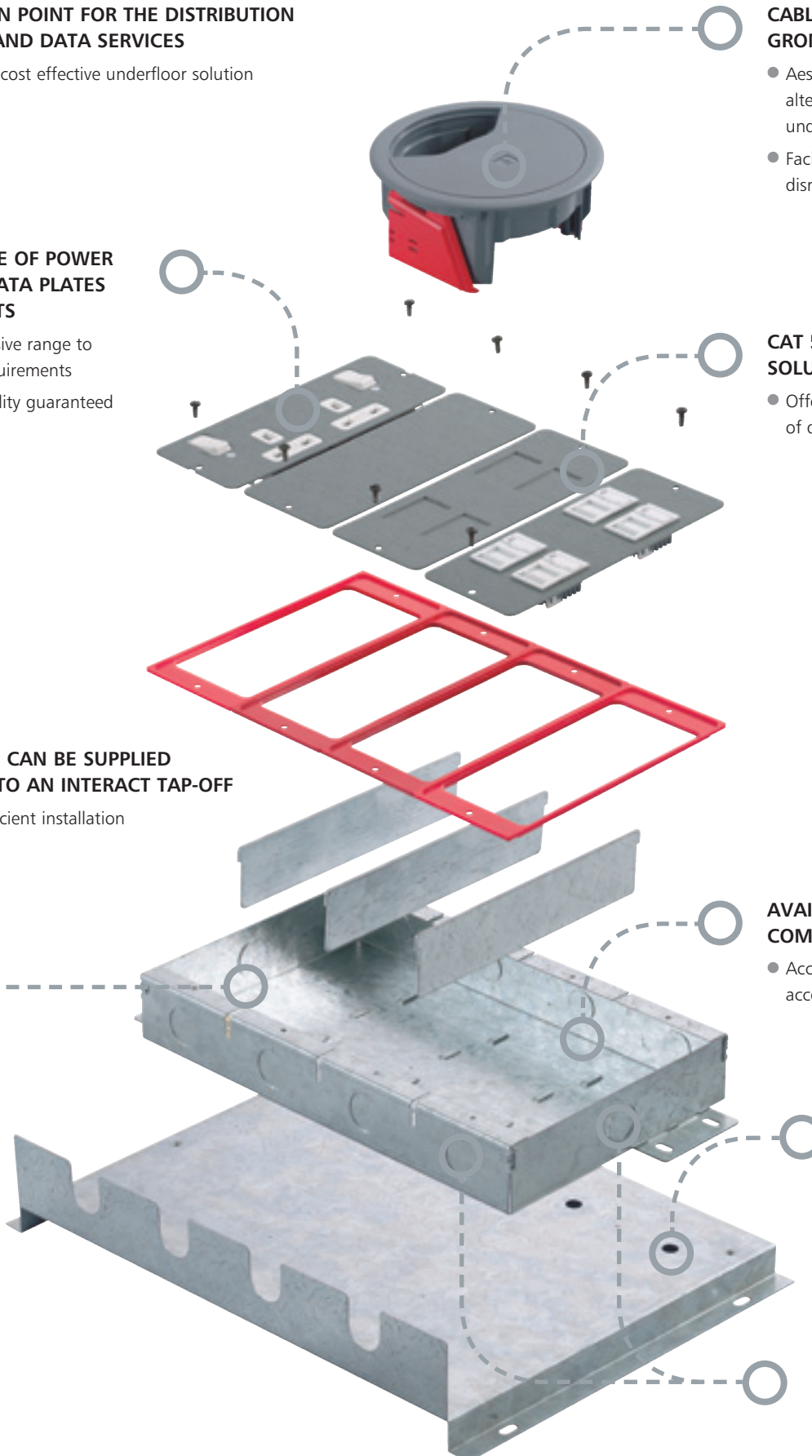
- Offers flexibility and choice of data solution

AVAILABLE IN 1, 2, 3 AND 4 COMPARTMENTS

- Accommodates a wide range of accessory mounting plates

OPTIONAL BOX SUPPORT AVAILABLE**SIDE AND END ENTRY KNOCK OUTS**

- Ensures a fast and simple installation



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Slab Boxes



PART NO.	DESCRIPTION
SB100	1 Compartment 190 x 76 x 45mm
SB200	2 Compartments 190 x 154 x 45mm
SB300	3 Compartments 190 x 231 x 45mm
SB400	4 Compartments 190 x 310 x 45mm

Box Supports



PART NO.	DESCRIPTION
SB9001	1 Compartment Box Support
SB9002	2 Compartments Box Support
SB9003	3 Compartments Box Support
SB9004	4 Compartments Box Support

Partitions



PART NO.	DESCRIPTION
SB9005	Blank Partition
SB9006	Interlink Partition

Accessory Plates

Accessory Plates are supplied in Light Grey (LGY) finish.

Serviced Power Plates



CRX10731NS



CRX10720



CRXP10740



CRX10741

PART NO.	DESCRIPTION
CRX10730*†	2G 13A Switch Socket Outlet
CRX10730NS*†	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CRX10735*†	2G 13A RCD Switch Socket Outlet
CRX10731*†	2G 13A Socket Outlet
CRX10731NS*†	2G 13A Socket Outlet Non-Standard (T Pin)
CRX10745*	2G 13A Angled Socket Outlet
CRX10720	3G 13A Socket Outlet
CRX10740	2G 16A 2P+E German Socket Outlet (non UK)
CRX10741	2G 15A 127V USA Socket Outlet (non UK)

* For Clean Earth wiring – add suffix 'CE' e.g CRX10730**CE**.

† Plates are supplied with the MK Electric 3-pin safety shutter.

Unserviced Data Plates



CRX20201



CRX20301



CRX30501



CRX30201

PART NO.	DESCRIPTION
CRX20101	2 x LJU/2 Apertures
CRX20201*	4 x LJU6C Apertures
CRX20301	6 x LJU6C Apertures
CRX20500	4 x ST Fibre Connector Apertures
CRX20410	2 x MK Master or Secondary Telephone or RJ11 Sockets
CRX20411	2 x MK Master Line Jack Telephone Socket Fitted
CRX20215	Angled Mounting Plate to accept 4 x RJ45 or LJU6C
CRX20117	4 x Alphasnap (Aperture 47.5mm x 23.6mm)
CRX30501	2 x Euro 50x50mm Apertures **
CRX30502	2 x 45x45mm Apertures
CRX30201	Blank Plate

* Data apertures are supplied as knockouts.

** Will not accept power module.

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range introduction

Power, data and accessory grommets offer an ideal solution for a fast, simple and unobtrusive installation.

Easy to install and relocate if necessary, Grommets are ideal for use with Spider, Slab Box and DeskPod™, perfect for any office environment.

feature benefits

- **Rotary and split lid variations available to meet all requirements**
- **One touch self-adjusting mechanism for a fast, simple and secure installation**
- **Available in 5" and 8", grey or light grey, for flexibility of use**
- **Quality, reliability and safety come as standard**
- **5 year guarantee**

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Access Grommets

SIMPLE ACCESS

- Simple 'push fit' for fast installation
- Crush ribs for secure fixing

GROMMET COLOUR

- Grey or Light Grey option (Light Grey option shown here)

ROTARY AND SPLIT LID VARIATIONS

- Accept up to 2 x 40mm flexible conduits for maximum data cable access

SPLIT LID OPTION

- Integral foam inserts for secure cable grip to minimise pressure loss in plenum floors

SPRING LOADED BLADES

- Fast and simple installation
- Secure fixing guaranteed
- One touch self adjusting fixing mechanism

REVERSIBLE CENTRE LID

- 6mm carpet cut out for improved installation aesthetics

Serviced Grommets

GROMMET COLOUR

- Grey or Light Grey option

LID TETHER

- Added security
- Eliminates lid losses

ANGLED POWER SOCKETS

- Provide strain relief clearance for moulded plugs

SPRING LOADED BLADES

- Fast and simple installation
- Secure fixing guaranteed
- One touch self adjusting fixing mechanism

BACK BOX

- 28mm back box pre-fitted for ease of installation



UNSERVICED LJU6C OR EURO ACCESSORY GROMMETS ARE AVAILABLE

Compatible with MK data outlets

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Grommet Boxes

Grommets provide an aesthetic alternative to floorboxes and offer the additional benefits of being fast and simple to install.

- Choose from 5" or 8" grommets
- Available in a choice of finish: Grey (GRY) or Light Grey (LGY)
- Range includes both Access Grommets and Serviced Grommets
- Ideal for use with Spider, DeskPod™ (8" Grommet) or Slab Box

5" Access Grommet Boxes



PART NUMBER		DESCRIPTION
GREY	LIGHT GREY	
GR500 GRY	GR500 LGY	Simple Access Grommet
GR510 GRY	GR510 LGY	Secure Access Grommet
GR100 GRY	GR100 LGY	Split Lid Grommet

5" Power Grommet Boxes



PART NUMBER		DESCRIPTION
GREY	LIGHT GREY	
GR200 GRY	GR200 LGY	Power Grommet BS 1363 MK Switch Socket Outlet
GR201 GRY	GR201 LGY	Power Grommet MK Non-Standard Switch Socket Outlet
GR205 GRY	GR205 LGY	Power Grommet BS546 5A MK Switch Socket Outlet

5" Data Outlet Grommet Boxes



PART NUMBER		DESCRIPTION
GREY	LIGHT GREY	
GR5050 GRY	G5050 LGY	50 x 50mm EURO Accessory Grommet (unserviced)
GR800 GRY	G800 LGY	2 x LJU6C Grommet (unserviced)

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8" Grommets

Larger grommets have an increased cord outlet size making them ideal to house DeskPod™ conduit.

8" Access Grommets



GR855 GRY

PART NUMBER		DESCRIPTION
GREY	LIGHT GREY	
GR850 GRY	G850 LGY	Simple Access Grommet
GR855 GRY	G855 LGY	Secure Access Grommet

1 Compartment Cablelink Plus Single Pan Floorboxes

	PART NUMBER	DESCRIPTION
 CRB100UK-1GRY	CRB100UK-1GRY*	100x200mm Single Compartment Floorbox – 95mm Deep Grey
	CRB100UK-1LGY*	100x200mm Single Compartment Floorbox – 95mm Deep Light Grey
	CRP100-RCD	100x200mm Single Compartment Floorbox fitted with RCD Socket Outlet
	CRP101	100x200mm Single Compartment Floorbox fitted with 2G 13A Socket Outlet
	CRP121	100x200mm Single Compartment Floorbox fitted with 1G 13A Socket outlet and 2x LJU6C aperture

* Accessory Plates – see below for details.

Accessory Plates for 1 Compartment Cablelink Plus Single Pan Floorboxes

Serviced Power Plates

STANDARD PART NO.	DESCRIPTION
CXP10745*	2G 13A Angled Socket Outlet

* For Clean Earth wiring – add suffix 'CE' e.g CXP10730CE.

Unique product - no other product is compliant

Unserviced Data Plates

STANDARD PART NO.	DESCRIPTION
CXP20101	2x LJU/2 Apertures
CXP20200	2x LJU6C Apertures
CXP20201*	4x LJU6C Apertures
CXP20215	4x LJU6C Wave Apertures
CXP20205	4x Krone Apertures
CXP20301	6x LJU6C Apertures
CXP30501	2x Euro 50x50mm Apertures
CXP20117	4x Alphasnap (Aperture 47.5mm x 23.6mm)
CXP20500	4x ST Fibre Connector Apertures
CXP30201	Blank Plate

* Data apertures are supplied as knockouts.



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range introduction

DeskPod™ offers a comprehensive range of fully customisable and pre-configured desk modules, providing convenient access to power and data services to the end user, where it is needed.

Delivering the final link in the chain of the power distribution circuit, DeskPod™ modules are compatible with the Interact Underfloor Power System, Cablelink Plus Floorboxes and Grommets.

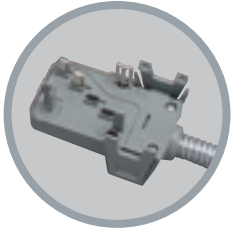
The range incorporates in-built product design features to address the increasing and varied demands of individual requirements.

feature benefits

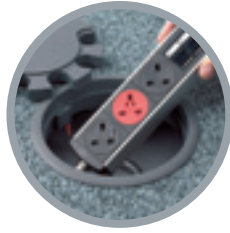
- Custom designed and versatile to suit all requirements
- Choice of factory fitted multi-positional sockets
- Ease of installation – available with pre-wired tap-offs
- Breadth and flexibility of range to suit all specifications
- Manufactured from anodised aluminium and polycarbonate – chemical, colour fade, impact resistant and flame retardant
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

raised floor systems

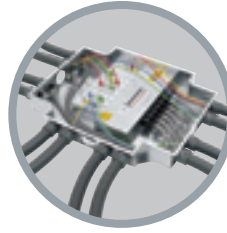
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**TAP-OFFS**

Available pre-wired to tap-offs for quick installation – see page 41

**8" GROMMET**

Provide access where DeskPods are contained within the floor void – see page 31

**SPIDER**

DeskPod™ can be used in conjunction with the Spider System – see page 43

INTEGRAL FIXING BRACKET

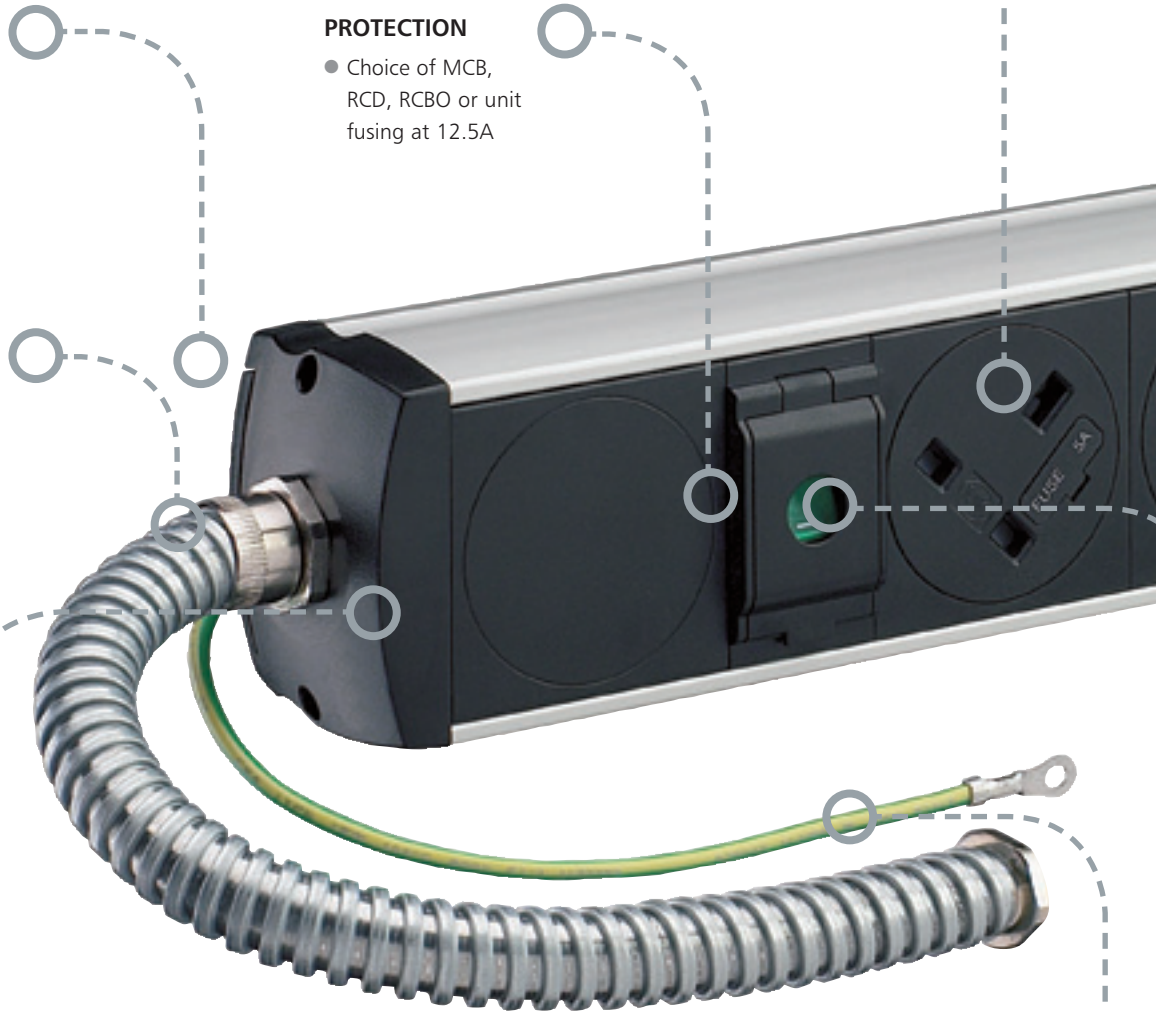
- In-built 2 position bracket to allow fast and simple mounting of the unit

INCOMING SUPPLY

- Conduit entry available for hard wiring tap-offs
- Flex entry available for hard wiring to a BS1363 plug
- 3 and 4 pole Wago or Wieland connectors
- Other industry standard options available on request

PROTECTION

- Choice of MCB, RCD, RCBO or unit fusing at 12.5A

**WIRING CONFIGURATION**

- Available as Standard, Clean Earth or High Integrity Earthing[†] compliant

EXTERNAL EARTH LEAD

- All power units include an earth lead to allow bonding to any metalwork, e.g. desk installation



[†] In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

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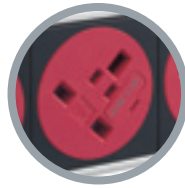
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Fused



Unfused



Non-standard

SOCKET OUTLETS

- Choice of factory fitted multi-positional socket outlets, each can be individually positioned in one of 8 orientations to provide improved cable management in any environment
- All standard socket outlets incorporate the patented MK Electric 3 pin safety shutter as standard
- Option of integral fused (3A or 5A) or unfused sockets
- Pre-configured and Custom Design options available to suit your requirements

ANODISED ALUMINIUM EXTRUDED 'POD'

- Styled and finished to be aesthetically pleasing
- Robust construction ensures durability whilst in use



DATA SUPPLY

- 20mm or 25mm flexible conduits in metal or plastic

DATA MODULES

- Available with choice of Euro or LUJ6C sized apertures
- Wide range of Euro and LUJ6C modules available
- Choose from 2 to 16 module apertures in a 'Data Module Only' unit

SWITCH

- Optional Double Pole Neon Switch available
- Neon Indicator to provide user with visible indication of power supply
- Positive Switch Action – audible indication of switching
- Switch Cover (with viewing cut out) – protects the unit from inadvertent switching
- Double Pole Switch – all contacts are disconnected for added user safety

SEGREGATION

- Combined power and data units come pre-segregated for installation convenience

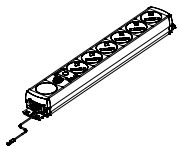
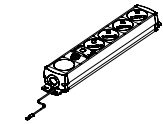
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STANDARD PRE-CONFIGURED OPTIONS

Power Modules

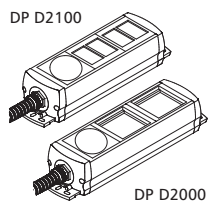
Note: The rotational angle of the socket outlets can be specified and factory fitted in one of eight orientations*.



PART NUMBER		DESCRIPTION
DP P4010		4x 13A socket outlet, unit fused 12.5A, unit switched, High Integrity Earthing compliant, conduit entry (ø20mm)
DP P6010		6x 13A socket outlet, unit fused 12.5A, unit switched, High Integrity Earthing compliant wiring, conduit entry (ø20mm)
Wieland GST Connector	Wago WINSTA Connector	
DP P4020	DP P4040	4x 13A socket outlet, unit fused 12.5A, unit switched, 3 Pole incoming connector
DP P4030	DP P4050	4x 13A socket outlet, unit fused 12.5A, unit switched, High Integrity Earthing compliant wiring, 4 Pole incoming connector
DP P6020	DP P6040	6x 13A socket outlet, unit fused 12.5A, unit switched, 3 Pole incoming connector
DP P6030	DP P6050	6x 13A socket outlet, unit fused 12.5A, unit switched, High Integrity Earthing compliant, 4 Pole incoming connector

* A half spacer is required for all socket orientation apart from North and South facing.

Data Modules



PART NUMBER	DESCRIPTION
DP D2000	4 modules, Euro sized apertures (25x50mm), conduit entry (ø20mm)
DP D2100	4 modules, LJU6C sized apertures (22x37mm), conduit entry (ø20mm)

Power Cables



PART NUMBER		DESCRIPTION
Wieland GST Connector	Wago WINSTA Connector	
DP C1120	DP C1320	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 2 metres
DP C1130	DP C1330	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 3 metres
DP C1150	DP C1350	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 5 metres

Interlink Cables



PART NUMBER		DESCRIPTION
Wieland GST Connector	Wago WINSTA Connector	
DP C2205	DP C4405	Interlink cable (1.5mm ²) 3 Pole connector 0.5 metre
DP C2210	DP C4410	Interlink cable (1.5mm ²) 3 Pole connector 1 metre
DP C3305	DP C5505	Interlink cable (1.5mm ²) 4 Pole connector 0.5 metre
DP C3310	DP C5510	Interlink cable (1.5mm ²) 4 Pole connector 1 metre

Refer to BS 6396 where appropriate.



*In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

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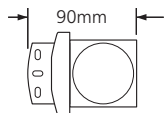
Custom designed DeskPods

Custom designed DeskPods ensure bespoke requirements are matched.

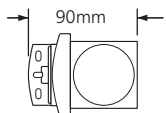
DeskPod Selector Guide

- Choose a 'Supply Option' – other industry standard connectors are available on request
- Select your preferred wiring configuration
- Circuit protection options available from MK Sentry range
- Optional switch available for isolation
- Choose from a range of standard and non-standard socket outlets
- Choice of spacers and end caps also available

Supply Options



Option – None and Pre-wired to Tap-off



Option – 3 and 4 Pole connector

OPTION REF.	DESCRIPTION
None	End cap includes 20mm diameter hole for conduit or cable gland
Pre-wired to Tap-off	Module can be supplied pre-wired to supply cord or powertrack tap-off
3 Pole Connector	Wieland GST* or Wago Winsta** standard power
4 Pole Connector	Wieland GST* or Wago Winsta** clean earth system Dual earth conductors for compliance to High Integrity Earthing [†] , BS 7671:2008 IEE Wiring Regulations

All end caps include fixing bracket.

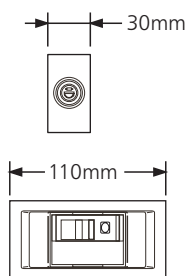
* Wieland GST connectors include retaining clip to minimise risk of accidental disconnection.

** Wago Winsta and other components available on request.

Wiring Options

OPTION REF.	DESCRIPTION
Standard	Single protective conductor
Clean Earth	Additional clean earth protective conductor
High Integrity Earthing [†]	Protective conductor meets requirements for High Integrity Earthing [†] , BS 7671:2008 IEE Wiring Regulations

Circuit Protection Options



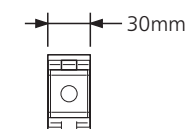
OPTION REF.	DESCRIPTION
Unit Fuse	12.5A High breaking capacity ceramic fuse to BS EN60127-2 Fuse length: 32mm Fuse diameter: 6.35mm
MCB	16A*, Type B, Single Pole, 6kA (MK Sentry)
RCD	16A, 30mA tripping current, Double Pole, 6kA (MK Sentry)
RCBO	10A*, Type C, 30mA tripping current, Double Pole 6kA

* Alternative lower circuit protection ratings available on request.

All circuit protection devices are from the MK Sentry range.

RCD's do not provide overcurrent protection.

Circuit Isolation



OPTION REF.	DESCRIPTION
Double Pole Neon Switch	Double Pole Switch with green neon, switch cover fitted as standard

[†]In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

Socket Outlets – Standard



ITEM	DESCRIPTION
Unfused	Colour of socket outlet – black
Fused	Individually fused 3.15 or 5A*. Colour of socket outlet – black

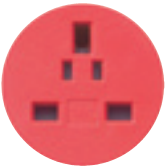
The rotational angle of the socket can be specified and factory fitted in one of eight orientations.

A half spacer must be added between sockets if they are rotated.

* For information regarding available socket and fuse options see technical page 88.

Red or White 13A socket outlet available on request.

Socket Outlets – Non-Standard



ITEM	DESCRIPTION
Non-Standard Unfused	Colour of socket outlet – red
Non-Standard Fused	Individually fused 3.15 or 5A*. Colour of socket outlet – red

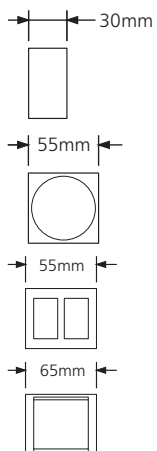
The rotational angle of the sockets can be specified and factory fitted in one of eight orientations.

Keyplate to fit standard 13A plug top may be purchased separately – NSKEYPLATE.

A half spacer must be added between sockets if they are rotated.

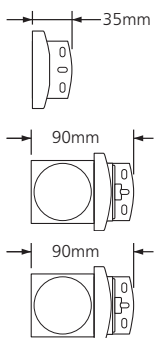
* For information regarding available socket and fuse options see technical page 88.

Spacers



ITEM	DESCRIPTION
Half Spacer	To provide extra space for internal cable termination and capacity, extra width on the socket for transformer plugs and other adaptors
Full Spacer	To provide extra space for internal cable termination and capacity, extra width on the socket for transformer plugs and other adaptors
LJU6C	Aperture size: 22.2mm x 37.6mm A range of data connectors suitable for this module are available from MK Electric
Euro	Aperture size: 50mm x 50mm A range of Euro size data connectors suitable for this module are available from MK Electric

End Caps



ITEM	DESCRIPTION
Blank Conduit Entry	Solid end cap. End cap includes Ø20mm or Ø25mm cutter position holes for conduit or cable gland (used for data only module)
3 Pole Connector	Wieland GST or Wago Winsta, standard power
4 Pole Connector	Wieland GST or Wago Winsta clean earth system



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Tap-off Leads

- Choose from a vast range of tap-off leads to meet installation requirements
- Alternative tap-offs available on request



ACCESS GROMMET

A range of 5" and 8" grommets are available. Please refer to page 33 for details



TYPE	PIN POSITION	CABLE / CONDUIT	CURRENT RATING	PROTECTION	3 METRE**		5 METRE*		KEY CODES†
					2.5mm ²	4.0mm ²	2.5mm ²	4.0mm ²	
STANDARD GREY	N2 L2 PE	LSF / LSF	13A	Fused	UT31301C		UT51301C		L
		16mm	32A	Unfused		UT33201		UT53201	
		16mm	13A	Fused	UT31301		UT51301		
AUX / PHASE 1 GREEN	PE N1 L1	LSF / LSF	13A	Fused	UT31302C		UT51302C		T
		16mm	32A	Unfused		UT33202		UT53202	
		16mm	13A	Fused	UT31302		UT51302		
PHASE 2 GREEN	PE N1 L2	LSF / LSF	13A	Fused	UT31310C		UT51310C		T
		16mm	32A	Unfused		UT33210		UT53210	
		16mm	13A	Fused	UT31310		UT51310		
PHASE 3 GREEN	PE N1 L3	LSF / LSF	13A	Fused	UT31311C		UT51311C		T
		16mm	32A	Unfused		UT33211		UT53211	
		16mm	13A	Fused	UT31311		UT51311		
ALL PHASE GREEN	PE N1 L1 L2 L3	16mm	28A	Unfused		UT33205		UT53205	
CE RED	CE N1 L1 PE	LSF / LSF	13A	Fused	UT31304C		UT51304C		T
		16mm	32A	Unfused		UT33204		UT53204	
		16mm	13A	Fused	UT31304		UT51304		
DUO (RED)	CE N1 L1 N2 L2 PE	20mm	28A	Unfused		UT33206		UT53206	

Alternative tap-off lengths are available on request via MK Design Service, see page 7.

Tap-offs are supplied as single cables inside steel flexible conduit, except those with 'C' suffix, which are supplied with 3 or 4 core LSF flex, as appropriate.

* Unfused tap-offs in excess of 3m can only be used on powertrack protected with a 32A (or less) circuit protection device.

** When fully stretched to ensure the conductor lengths do not exceed 3m to comply with BS 7671:2008 17th Edition IEE Wiring Regulations to ensure the conduit remains flexible this is then shortened by a further 0.1 - 0.2 of slack when wired to a module.

Add 'DE' suffix for Dual Earth High Integrity Earthing††, e.g. UT51301DE.

Unfused tap-offs - High Integrity Earthing†† as standard.

Add '607' suffix for High Integrity Earthing††, e.g. UT51301607.

† Key codes shown are from the perspective of the Power Track socket with the keycode in the top right corner.

The tap-off key code will be a mirror image when viewed from underneath.

†† In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

Continuing Professional Development through the MK Electric Technical Seminar Programme

TITLE	BRAND REPRESENTED	DESCRIPTION	EXTERNAL APPROVAL
Socket in a Shower – What's that all about?	MK Electric	A review of the main changes to BS 7671:2008 – 17th Edition of the IEE Wiring Regulations and the impact upon the electrical world	Construction CPD

Duration:
Approx. 1 hour

Who should attend:
Electrical Contractors, Specifiers & Consultants

January 2008 saw the publication of BS 7671, Requirements for Electrical Installations, 17th Edition of the IEE Wiring Regulations. This seminar takes a look at the main changes from the 16th to the 17th Edition, the reasons why and their impact.

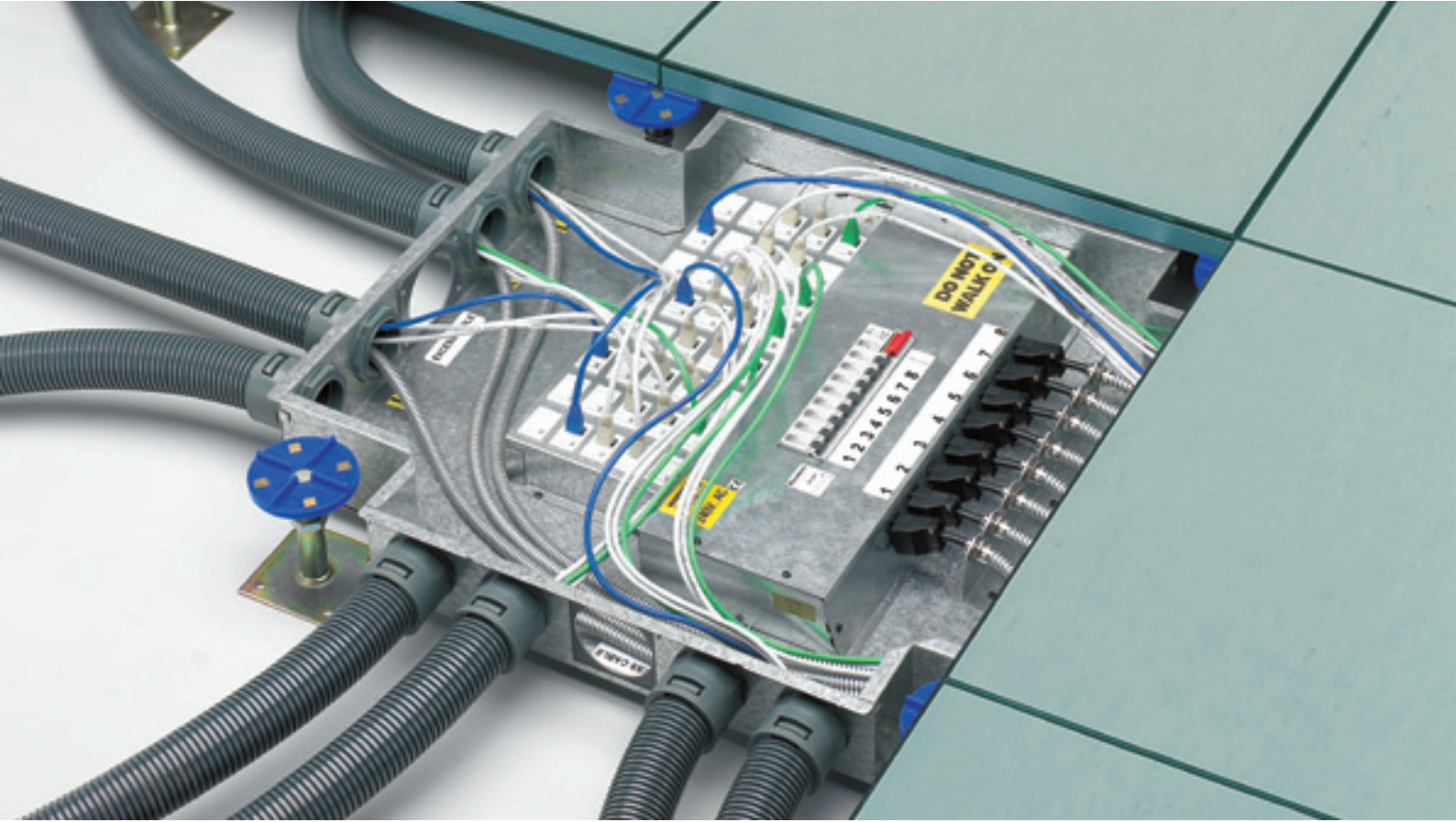
Content

- Reasons for change
- Structure
- Numbering
- Major changes chronologically for Parts 1-7 including;
 - Definitions
 - Protection against electric shock
 - Cables in walls
 - Bath & shower rooms



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range introduction

Spider provides a radically superior approach to fast and simple relocation of power and data services, comprising of a self contained power and data hub for distribution of services.

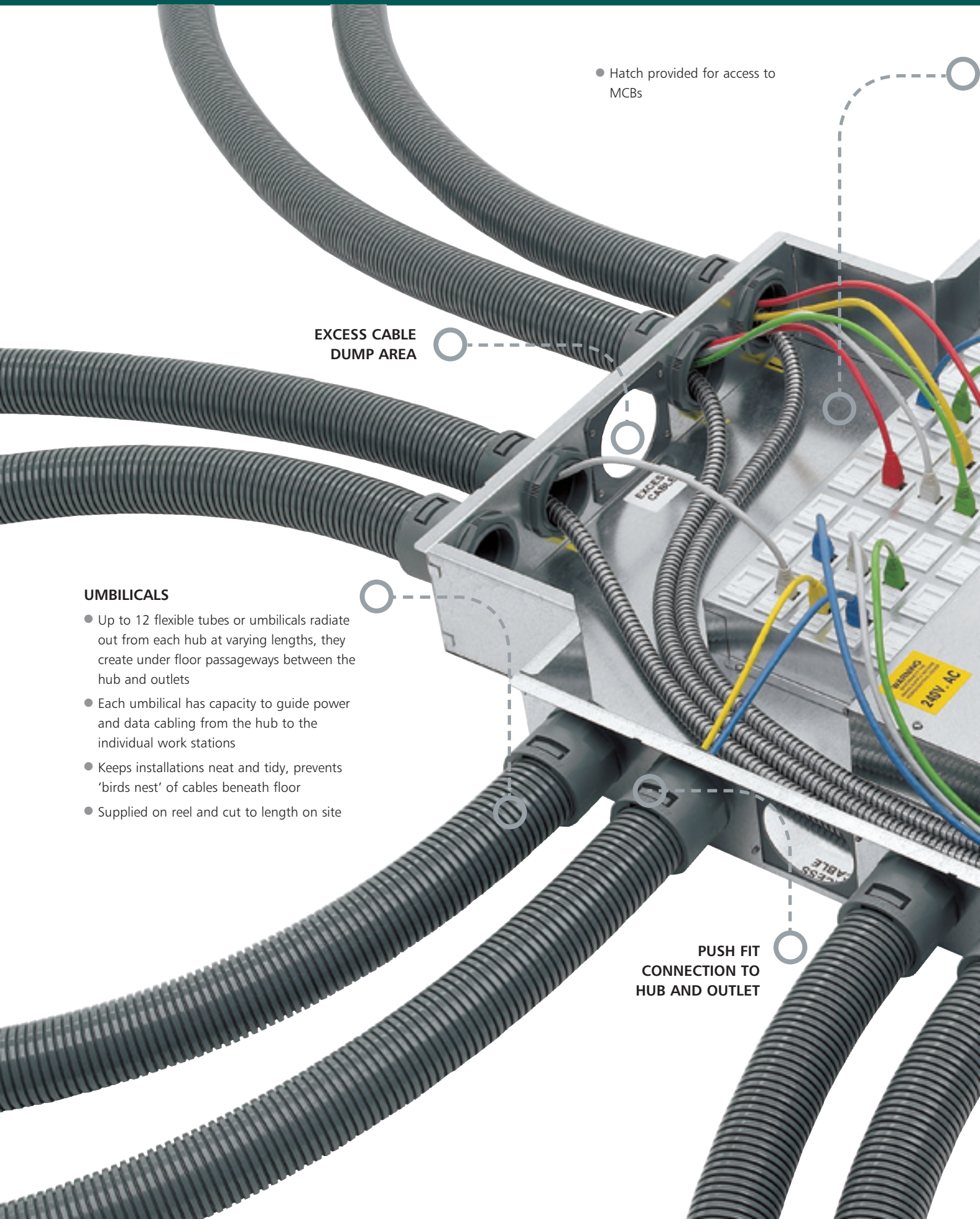
The Spider System provides maximum flexibility and significantly reduces the disruption of office changes.

feature benefits

- Ideal for office environments requiring frequent layout changes
- Offers a fast re-configuration of services whilst minimising disruption to services
- Complies with all relevant safety and performance standards
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

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- Hatch provided for access to MCBs

EXCESS CABLE
DUMP AREA

UMBILICALS

- Up to 12 flexible tubes or umbilicals radiate out from each hub at varying lengths, they create under floor passageways between the hub and outlets
- Each umbilical has capacity to guide power and data cabling from the hub to the individual work stations
- Keeps installations neat and tidy, prevents 'birds nest' of cables beneath floor
- Supplied on reel and cut to length on site

PUSH FIT
CONNECTION TO
HUB AND OUTLET

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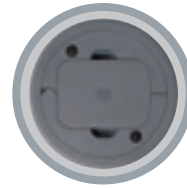
HUB

- Consists of a pre-galvanised housing, power unit, and data unit
- Each hub feeds up to 8 serviced desks, through a possible 12 outlets



DESKPOD™

- DeskPod™ can be used in conjunction with the Spider System – see page 35

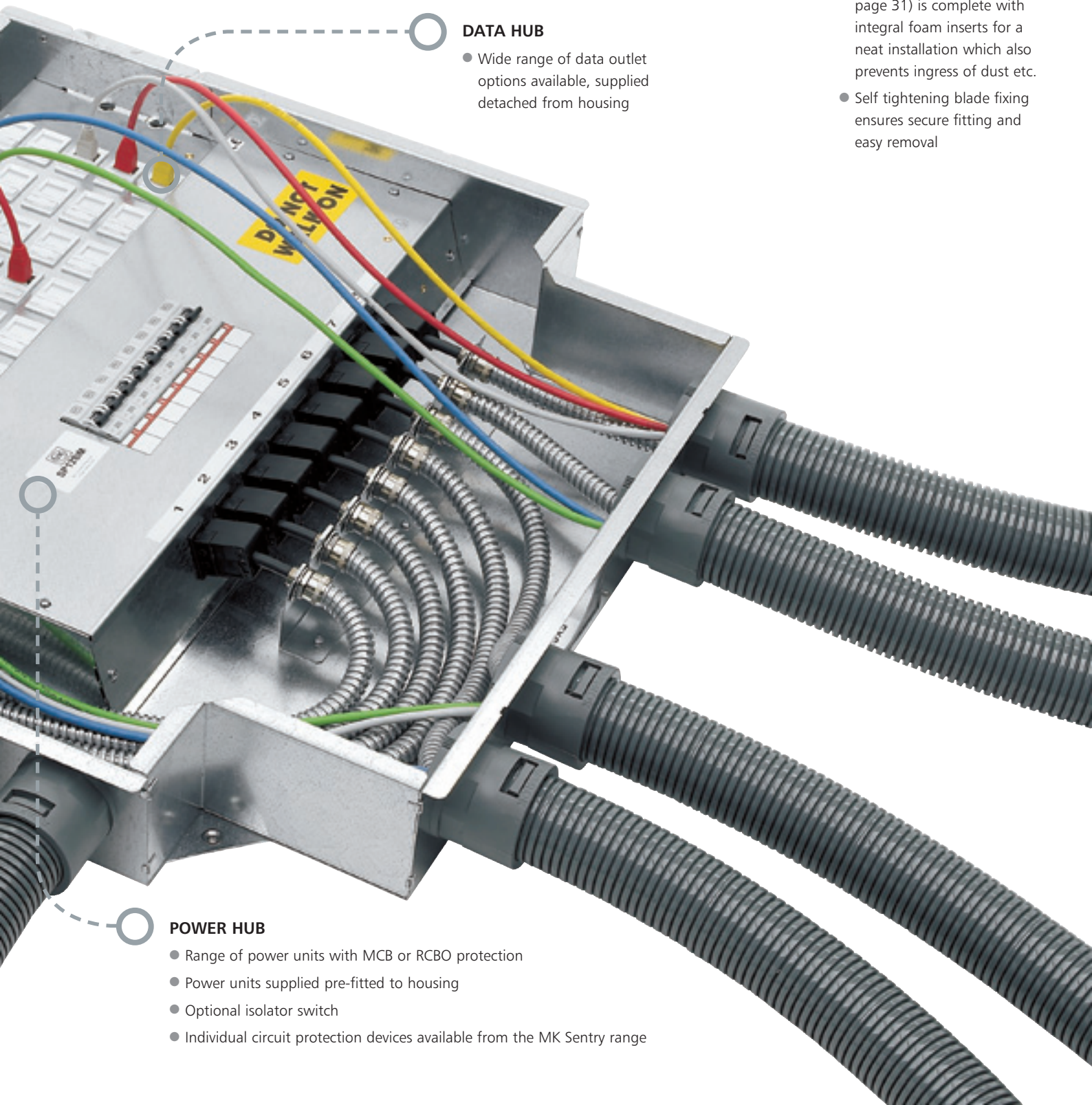


GROMMETS

- Grommets are ideal for using in conjunction with the Spider System to distribute power and data to the workstation and back to the hub
- Split lid grommet (see page 31) is complete with integral foam inserts for a neat installation which also prevents ingress of dust etc.
- Self tightening blade fixing ensures secure fitting and easy removal

DATA HUB

- Wide range of data outlet options available, supplied detached from housing



POWER HUB

- Range of power units with MCB or RCBO protection
- Power units supplied pre-fitted to housing
- Optional isolator switch
- Individual circuit protection devices available from the MK Sentry range

SPIDER – THE PLANNING

Spider can be easily applied to many situations, providing significant benefits to both the planner and end user.

- Practical and flexible system – final desk layout prior to planning the Spider installation is not necessary
- Service Outlets – provided at the required density
- Workstations – easily located in a variety of configurations to suit your needs
- Simple to plan – designed around a basic grid principle (utilising typical 600x600mm floor tiles)

1 Position outlets in a grid pattern

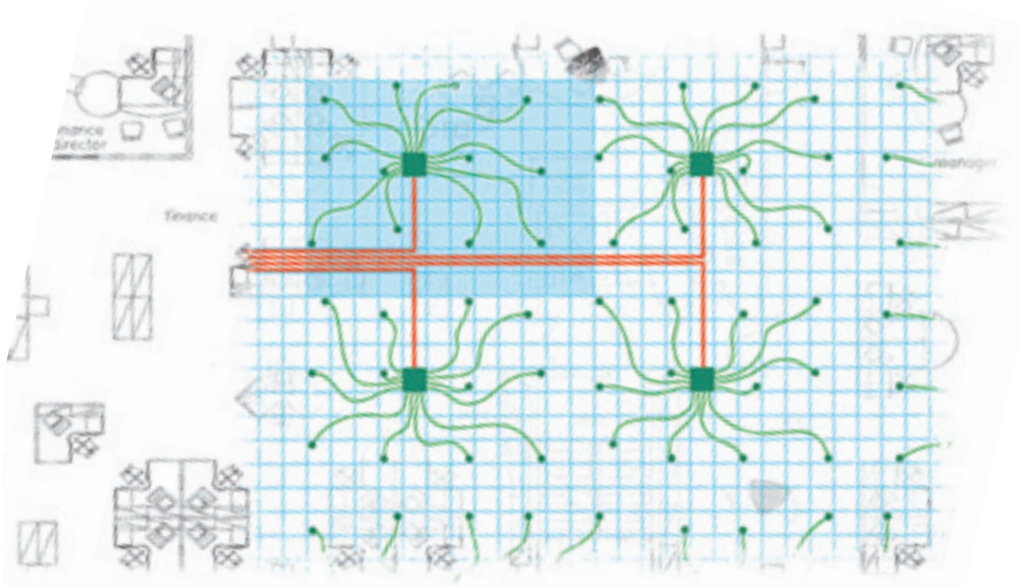
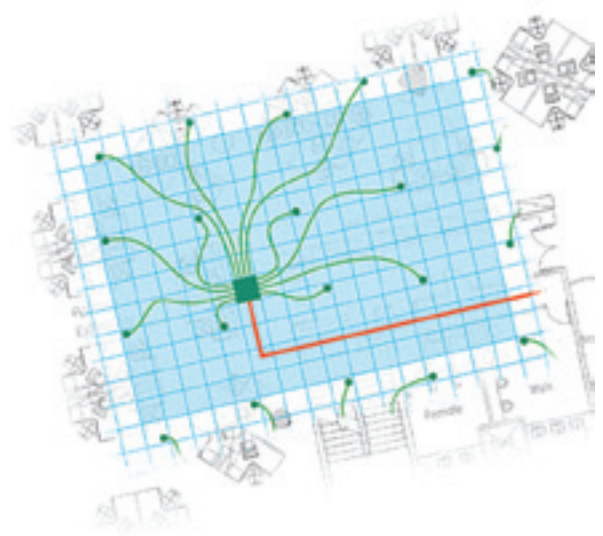
- High density applications: Every 3rd floor tile
- Medium density applications: Every 4th floor tile
- Low density applications: Every 5th floor tile

2 Centrally position the Spider hub to feed 12 outlets

- High density applications require 1 hub per 38m²
- Medium density applications require 1 hub per 70m²
- Low density applications require 1 hub per 108m²

3 Estimate quantity of umbilical reels

- Outlet on 3 tile grid = approx 35m per hub
- Outlet on 4 tile grid = approx 50m per hub
- Outlet on 5 tile grid = approx 65m per hub

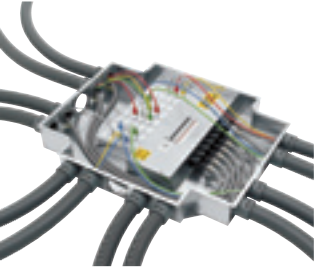
4 Continue grid pattern across the rest of the floor

It is important to plan the layout so that the spider hub can be easily accessed simply by lifting a floor tile, situated above each hub. Individual power supplies can be isolated without lifting the floor tile by accessing breakers through a hatchway in the floor tile.

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raised floor systems

Power Units



PART NUMBER			DESCRIPTION
8 Way Std 3 Pole Wieland GST Connector	8 Way HIE compliant 4 Pole Wieland GST Connector	8 Way CE 4 Pole Wieland GST Connector	
SP128M	SP128M607	SP128MCE	8 x MK 16A Type B MCB to accept 40 RJ45 Data Connectors
SP128IM	SP128IM607	SP128IMCE	8 x MK 16A Type B MCB + 63A Switch Disconnecter
SP128RC	SP128RC607	SP128RCCE	8 x MK 16A Type B 30mA RCBO
SP128IRC	SP128IRC607	SP128IRCCE	8 x MK 16A Type B 30mA RCBO + 63A Switch Disconnecter

Wago connectors are also available on special request.
Power leads and patch leads are not supplied with power unit.
Supplied complete with mounting feet.

Power Leads – Connector to Connector



SP5105GST



SP5117GST

PART NUMBER		DESCRIPTION	PART NUMBER		DESCRIPTION
3 Core		3 Pole Wieland GST Connector	4 Core		4 Pole Wieland GST Connector
SP5105GST		Cable size 1.5mm ² Length 5m	SP6105GST		Cable size 1.5mm ² Length 5m
SP5107GST		Cable size 1.5mm ² Length 7m	SP6107GST		Cable size 1.5mm ² Length 7m
SP5115GST		Cable size 2.5mm ² Length 5m	SP6115GST		Cable size 2.5mm ² Length 5m
SP5117GST		Cable size 2.5mm ² Length 7m	SP6117GST		Cable size 2.5mm ² Length 7m
SP5111GST		Cable size 2.5mm ² Length 11m	SP6111GST		Cable size 2.5mm ² Length 11m

Wago connectors are also available on special request.

Power Leads – Connector to Tails



SP5005GST

PART NUMBER		DESCRIPTION	PART NUMBER		DESCRIPTION
3 Core		3 Pole Wieland GST Connector	4 Core		4 Pole Wieland GST Connector
SP5005GST		Cable size 1.5mm ² Length 5m	SP6005GST		Cable size 1.5mm ² Length 5m
SP5007GST		Cable size 1.5mm ² Length 7m	SP6007GST		Cable size 1.5mm ² Length 7m
SP5015GST		Cable size 2.5mm ² Length 5m	SP6015GST		Cable size 2.5mm ² Length 5m
SP5017GST		Cable size 2.5mm ² Length 7m	SP6017GST		Cable size 2.5mm ² Length 7m
SP5011GST		Cable size 2.5mm ² Length 11m	SP6011GST		Cable size 2.5mm ² Length 11m

Wago connectors are also available on special request.

Data Patch Leads

PART NUMBER		DESCRIPTION	PART NUMBER		DESCRIPTION
RJ45 Plug Both Ends			RJ45 Plug To Tails		
SD5105		5m Patch Lead	SD5005		5m Patch Lead
SD5107		7m Patch Lead	SD5007		7m Patch Lead
SD5111		11m Patch Lead	SD5011		11m Patch Lead

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Umbilical Tube



PART NUMBER	DESCRIPTION
SP980994	25m Reel Umbilical Tube

Outlets



PART NUMBER	DESCRIPTION
SP1005	Single Service Outlet
SP100512	Service Outlet - Pack of 12

SP1005

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screeded floor systems



range introduction

Onix Plus™ Floorboxes and Power Grommets are a unique, innovative solution to hard floor power and data distribution requirements in screed floors with coverings such as laminate, wood, stone and marble.

Stylish and robust design offers superior load bearing performance and greater durability. Floorbox lids with snorkel or plain lid provide wet wash solutions.

Used in conjunction with the Cablelink Plus Screed Ducting System these products are ideal for reception areas, offices, airports, shopping malls and exhibition halls.

feature benefits

- **Wet washable and IP44 when not in use**
- **Tested to EN50085-2-2 to accept 10,000N load**
- **Selection of lid recess depths available, allowing for various floor depths**
- **Designed to support Cat 6 structured cabling systems**
- **Wide range of power and data accessories available to meet all requirements**
- **Quality, reliability and safety come as standard**
- **Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations**
- **5 year guarantee**

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Onix Plus™ Floorbox with Snorkel Cord Outlet Lid

SNORKEL CORD OUTLET

- Design allows access of plug tops and 16A 2P+E MK Commando Plug
- Supplied with a 9mm wide flange to cater for poorly cut tile infills

ATTRACTIVE, AESTHETIC LIDS

- Stylishly designed
- Recess depth options available to suit

WET WASHABLE

- Plain lid and snorkel design allows floor to be washed even when in use

**TESTED TO EN50085-2-2
TO ACCEPT 10,000N LOAD****ROBUST LOAD PLATE**

- Superior load bearing performance
- Ideal for areas of heavy foot traffic
- A tile lifter should be used to lift all Onix Plus lids

SQUARE BOX OPTION

- 90° rotation of floorbox for system flexibility

COMPARTMENT SEGREGATION

- Set at 35mm as standard
- Height adjustable - 25 to 45mm with appropriate CUBA kit

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

SERVICE OUTLET BOX

- Option of two screed depths: 55-80mm and 80-110mm
- Flat sided base design ensures a stronger screed solution and faster taping

BASE FIXING FEET

- 'Fast fix' installation



DESIGNED FOR USE WITH CABLELINK PLUS SCREED SYSTEM

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screeded floor systems

Onix Plus™ Boxes and Snorkel Lids

The Base Units are installed prior to screeding. Designed for use with the Cablelink Plus Screed Ducting System (see page 67 & 68 for more details). Snorkel design allows floor to be washed even when in use – IP44 when not in use, IP2x when in use.

Onix Plus Box selector guide

- Service Outlet Boxes and Junction Boxes are ordered as two parts – “Base” and “Lid”
- Base – identify screed depth, number of compartments required and preferred box size
- Lid – choice of lid type, available with and without snorkel
- Junction Box – supplied complete with disposable steel screed lid and cable flyover
- Accessory Plates – select from wide range of power and data see page 58 for details
- Alternative deeper Junction Boxes and Screed Base Unit depths are available - please contact Customer Services for details, 01745 532343

Screed Base Units: Standard



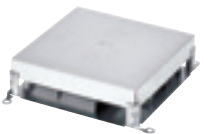
BASE SIZE COMPARTMENT	200 x 200mm 2	265 x 265mm 2	265 x 265mm 3	340 x 340mm 3	340 x 340mm 4
Screed 55-80mm 35mm wiring space	NXB200UK-2	NXB265UK-2	NXB265UK-3	NXB340UK-3	NXB340UK-4
Screed 80-110mm 35mm wiring space	NXB200XUK-2	NXB265XUK-2	NXB265XUK-3	NXB340XUK-3	NXB340XUK-4

Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit - part number CUBA-1 or CUBA-2. For 200x200mm base, use ‘Compact’ power and data plates only – see page 58.

Supplied with two PVC ducting side plates. Number of ducting knockouts varies by size: 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x340mm – 3 x 90x35mm. See page 58 for alternative plates.

If screed depth is 55-65mm, reduce height by use of CUBA-1 or CUBA-2 and use side entry power socket outlets – see page 58.

Junction Boxes



SIZE	200 x 200mm	265 x 265mm	340 x 340mm
55-80mm	NXJ200UK	NXJ265UK	NXJ340UK
80-110mm	NXJ200XUK	NXJ265XUK	NXJ340XUK

Disposable steel screed lid and cable flyover supplied as standard. **LIDS MUST BE ORDERED SEPERATELY.**

Supplied with four side adaptor plates, 4 PVC ducting plates. Number of ducting knockout varies by size: 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x340mm – 3 x 90x35mm. See page 58 for alternative plates.

Increased screed depth junction boxes available on request.

Box Lid: Snorkel Lid



SIZE	200 x 200mm	265 x 265mm	340 x 340mm
DEPTH 80-110 MM			
Recess Depth 15mm	NXLS200X-15	NXLS265X-15	NXLS340X-15
Recess Depth 20mm	NXLS200X-20	NXLS265X-20	NXLS340X-20
Recess Depth 25mm	NXLS200X-25	NXLS265X-25	NXLS340X-25
Recess Depth 30mm	NXLS200X-30	NXLS265X-30	NXLS340X-30

See page 99 to determine the minimum screed depth/finished floor depth combination required to enable the snorkel lid to close. All supplied as stainless steel lid with snorkel. Lids are supplied with frame and fittings.

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Onix Plus™ Floorbox with Round Metal Lid

SNORKEL CORD OUTLET

- Design allows access of plug tops and 16A 2P+E MK Commando Plug

ALUMINIUM LID WITH RIBBED FINISH

- Strong wear resistant and non-slip surface

**WET WASHABLE**

- Plain lid and snorkel design allows floor to be washed even when in use

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

**SERVICE OUTLET BOX**

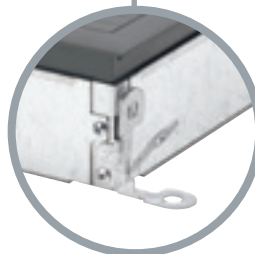
- Screed depth of 80-110mm
- Flat sided base design ensures a stronger screed solution and faster taping

COMPARTMENT SEGREGATION

- Set at 35mm as standard
- Height adjustable - 25 to 45mm with appropriate CUBA kit

BASE FIXING FEET

- 'Fast fix' installation



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screeded floor systems

Onix Plus™ Boxes and Round Snorkel Lids

The base units are installed prior to screeding. Designed for use with the Cabelink Plus Screeded Ducting System (see page 57 for more details). Snorkel design allows floor to be washed even when in use - IP44 when not in use.

Onix Plus Box selector guide

- Service Outlet Box - choose which floorbox for the floor type
- Accessory Plates - select from wide range of power and data plates

Screed Base Unit: Standard



PART NO.	DESCRIPTION
NXB370XUK-3	Base 80-110mm depth

See page 99 to determine the minimum screed depth/finished floor depth combination required to enable the snorkel lid to close.

Raised Base Unit: For use with Round Metal Lid



PART NO.	DESCRIPTION
NXLRR305UK-3	Base 80-110mm depth

* Compact plates must only be used within this floorbox.
 CXPC20215 and CXPC20500 will not fit into this box.
 CXPC20106 and CXPC20101 will require an increase in box depth of 6mm via use of NXLRSPKIT.

Box Lid: Round Metal Lid with Snorkel



PART NO.	DESCRIPTION
NXLRL	Round Die-Cast Aluminium Lid with Snorkel

Lids are supplied with frame and fittings.

Optional Extras

PART NO.	DESCRIPTION
The NXLRSPKIT is used to increase the plug top clearance on the NXLRR305UK-3	
NXLRSPKIT	Spacer Kit - Pack of 12

For use with the NXLRR305UK-3 only. The spacers increase the plug top clearance in increments of 3mm up to a maximum of 9mm. These are required when either the wave plate (CXPC20215) or the ST Fibre plate (CXPC20500) are to be used and prevent the snorkel contacting the accessory plates when it is closed.

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Onix Plus™ Floorbox with Edge Cord Outlet Lid

TESTED TO EN50085-2-2
TO ACCEPT 10,000N LOAD

ROBUST CORD CAPS

- Designed for improved retention



STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

OUTLET BOX

- Option of two screed depths: 55-80mm and 80-110mm
- Flat sided base design ensures a stronger screed solution and faster taping

ATTRACTIVE, AESTHETIC LIDS

- Stylishly designed
- Lid options allow for various floor coverings to be used

ROBUST LOAD PLATE

- Superior load bearing performance
- Ideal for areas of heavy foot traffic
- A tile lifter should be used to lift all Onix Plus lids

SQUARE LIDS

- 90° rotation of floorbox for system flexibility

COMPARTMENT SEGREGATION

- Set at 35mm as standard
- Height adjustable - 25 to 45mm with appropriate CUBA kit

BASE FIXING FEET

- 'Fast fix' installation



Cord Outlet Lids are not suitable for Wet Wash applications.

DESIGNED FOR USE WITH CABLELINK PLUS SCREED SYSTEM

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screeded floor systems

Onix Plus™ Boxes, Cord Outlet and Blank Lids

The Base Units are installed prior to screeding. Designed for use with the Cablelink Plus Screed Ducting System – see page 67 & 68 for more details. Blank Lid is suitable for wet wash applications.

Onix Plus Box selector guide

- Service Outlet Boxes and Junction Boxes are ordered as two parts, "Base" and "Lid"
- Junction Boxes – are supplied as a base and cable flyover
- Base – identify screed depth, number of compartments required and preferred box size
- Lid – choice of lid type. Cord Outlet Lid or Blank Lid. Cord caps must be ordered separately
- Accessory Plates – select from wide range of power and data options, see page 58 for details
- Alternative deeper Junction Boxes and Screed Base Unit depths are available - please contact Customer Services for details, 01745 532343

Screed Base Units: Standard



BASE SIZE COMPARTMENT	200 x 200mm 2	265 x 265mm 2	265 x 265mm 3	340 x 340mm 3	340 x 340mm 4
Screed 55-80mm 35mm wiring space	NXB200UK-2	NXB265UK-2	NXB265UK-3	NXB340UK-3	NXB340UK-4
Screed 80-110mm 35mm wiring space	NXB200XUK-2	NXB265XUK-2	NXB265XUK-3	NXB340XUK-3	NXB340XUK-4

Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit - part number CUBA-1 or CUBA-2. For 200x200mm base, use 'Compact' power and data plates only – see page 58. Supplied with two PVC side adaptor plates. Number of apertures varies by size: 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x340mm – 3 x 90x35mm. See page 58 for alternative plates. If screed depth is 55-65mm, reduce wiring space to 25mm by use of suitable CUBA kit and use side entry power socket outlets – see page 58.

Junction Boxes



SIZE	200 x 200mm	265 x 265mm	340 x 340mm
55-80mm	NXJ200UK	NXJ265UK	NXJ340UK
80-110mm	NXJ200XUK	NXJ265XUK	NXJ340XUK

Supplied complete with a disposable steel screed lid and cable flyover as standard. **LIDS MUST BE ORDERED SEPERATELY.** Supplied with four side adaptor plates, 4 x PVC ducting plates. Number of apertures varies by size: 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x340mm – 3 x 90x35mm. See page 58 for alternative plates.

Box Lids: Cord Outlet Lid



SIZE	200 x 200mm	265 x 265mm	340 x 340mm
DEPTH 55-80MM			
Recess Depth 15mm	NXLC200-15	NXLC265-15	NXLC340-15
Recess Depth 20mm	NXLC200-20	NXLC265-20	NXLC340-20
Recess Depth 25mm	NXLC200-25	NXLC265-25	NXLC340-25
Recess Depth 30mm	NXLC200-30	NXLC265-30	NXLC340-30
DEPTH 80-110MM			
Recess Depth 15mm	NXLC200X-15	NXLC265X-15	NXLC340X-15
Recess Depth 20mm	NXLC200X-20	NXLC265X-20	NXLC340X-20
Recess Depth 25mm	NXLC200X-25	NXLC265X-25	NXLC340X-25
Recess Depth 30mm	NXLC200X-30	NXLC265X-30	NXLC340X-30

CORD CAP	
Part Number	Description
NXLC-01GRY	Cord Cap – Grey (RAL 7011)
NXLC-01LGY	Cord Cap – Light Grey (RAL 7046)
NXLC-01BGE	Cord Cap – Beige (RAL 1019)

Cord outlet lid is not suitable for wet wash applications. Supplied as stainless steel lid. Cord caps must be ordered separately. Lids are supplied with frame and fittings.

Box Lids: Blank Lid



SIZE	200 x 200mm	265 x 265mm	340 x 340mm
DEPTH 55-80MM			
Recess Depth 15mm	NXLB200-15	NXLB265-15	NXLB340-15
Recess Depth 20mm	NXLB200-20	NXLB265-20	NXLB340-20
Recess Depth 25mm	NXLB200-25	NXLB265-25	NXLB340-25
Recess Depth 30mm	NXLB200-30	NXLB265-30	NXLB340-30
DEPTH 80-110MM			
Recess Depth 15mm	NXLB200X-15	NXLB265X-15	NXLB340X-15
Recess Depth 20mm	NXLB200X-20	NXLB265X-20	NXLB340X-20
Recess Depth 25mm	NXLB200X-25	NXLB265X-25	NXLB340X-25
Recess Depth 30mm	NXLB200X-30	NXLB265X-30	NXLB340X-30

Blank Lid is suitable for wet wash applications. Supplied as a stainless steel lid. Lids are supplied with frame and fittings.



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Onix Plus™ Metal Power Grommet

CAST METAL LID AND FRAME

- Designed for robustness in use

WET WASH SEALING GASKET

- IP44 rated to prevent water ingress when lid is closed

SIMPLE FLOOR THICKNESS ADJUSTMENT

- Accommodates floor covering thicknesses between 12mm and 30mm

TWO DEPTHS OF SCREED BASE

- Choice of 53-80mm and 80-110mm screed depth range

BASE FIXING FEET

- Fast Fix Installation

CHOICE OF KNOCKOUTS

- Provided with 6x20mm and 6x25mm

**COLOUR OPTIONS**

- Available in Aluminium, Nickel finish and Brass,

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screeded floor systems

Onix Plus™ Metal Power Grommet

The range of power grommets provide access to power in areas where standard plastic grommets are not robust enough, where improved aesthetics are required, or a wet wash solution is required.

IP44 WET WASH

Specifically designed to seal against water ingress to IP44 when the lid is closed, allowing the floor to be washed.

Onix Plus Metal Grommet selector guide

- Base – select preferred base depth (use for screeded floors only)
- Grommet – choose finish of unserviced grommet
- Select either switched Socket Outlet or Unserviced Data Outlet to service the grommet
- Serviced Data Grommets are available via the Design Service
- Use for screed floors only, compatible with conduit only

Screed Base Units



PART NO.	DESCRIPTION
NXGB100-1	Grommet Base Unit 55-80mm depth
NXGB100X-1	Grommet Base Unit 80-110mm

* A minimum finished floor thickness of 68mm is required. (Screed and floor tile thickness added together).

* Conduit entry only, not compatible with ducting.

Serviced Power Grommets*



NXG-ALP

PART NO.	DESCRIPTION
NXG-ALP	13A 1G Switched Socket Outlet Grommet – Aluminium
NXG-BRP	13A 1G Switched Socket Outlet Grommet – Brass
NXG-NIP	13A 1G Switched Socket Outlet Grommet – Nickel

Socket outlets feature the MK Electric 3-pin operated safety shutter.

*Not dual earth.

Unserviced Data Grommets



NXG-ALD

PART NO.	DESCRIPTION
NXG-ALD	Unserviced Grommet with 1x 50x75mm Euro aperture - Aluminium
NXG-BRD	Unserviced Grommet with 1x 50x75mm Euro aperture - Brass
NXG-NID	Unserviced Grommet with 1x 50x75mm Euro aperture - Nickel

Accessory Plates

Accessory plates are common to most ranges, they will fit all Onix Plus™, Cablelink Plus Single Pan, and Screed Floorboxes. Standard Plates are for use with 265x265mm, 340x265mm and 340x340mm Floorboxes. Compact Plates are for use with 200x200mm and Raised Floor Round Metal Lid Floorboxes only. Both Standard and Compact Plates are supplied in Light Grey (LGY) finish.

Serviced Power Plates



CXP10730



CXP10731NS



CXP10745



CXP10740



CXP10741

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP10730*†	CXPC10730*†	2G 13A Switch Socket Outlet
CXP10730NS*†	CXPC10730NS*†	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731†	CXPC10731†	2G 13A Socket Outlet
CXP10731NS†	CXPC10731NS†	2G 13A Socket Outlet Non-Standard (T Pin)
CXP10745*	CXPC10745*	2G 13A Angled Socket Outlet
CXP10735**	CXPC10735**	2G 13A 30mA Passive RCD Switch Socket Outlet
CXP10760		2G 13A Switch Socket Outlet – Side Wired
CXP10720*		3G 13A Socket Outlet
CXP10740**	CXPC10740**	2G 16A 2P+E German Socket Outlet (non UK)
CXP10741	CXPC10741	2G 15A 127V USA Socket Outlet (non UK)

* For Clean Earth wiring – add suffix 'CE' e.g CXP10730CE.

Clean Earth switched power plates are identified with red rockers, unswitched with red sockets.

† Plates are supplied with the MK Electric 3-pin safety shutter.

Compact Plates (power and data) are for use with 200x200mm bases and Raised Floor Round Metal Lid floorbox only.

**Minimum 45mm wiring space required.

If 2 socket plates are required in the 200x200 base, then only CXPC10745 / CXPC10745CE can be used.

Unserviced Data Plates



CXP2015



CXP20301



CXP30201

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP20101	CXPC20101	2 x LJU/2 Apertures
CXP20200	CXPC20200	2 x LJU6C Apertures
CXP20201*	CXPC20201*	4 x LJU6C Apertures
CXP20215†	CXPC20215**†	4 x LJU6C Wave Apertures
CXP20205	CXPC20205	4 x Krone Apertures
CXP20301	CXPC20301	6 x LJU6C Apertures
CXP30501	CXPC30501	2 x Euro 50x50mm Apertures
CXP30503		1 x Euro 150x50mm Aperture
CXP30502	CXPC30502	2 x 45x45mm Apertures
CXP20117	CXPC20117	4 x Alphasnap (Aperture 47.5mm x 23.6mm)
CXP20500†	CXPC20500**†	4 x ST Fibre Connector Apertures
CXP30201	CXPC30201	Blank Plate

* Data apertures are supplied as knockouts. ** Not suitable for use with NXLR305UK-3

† Additional floor depth restrictions apply when using these plates - See page 99 for details Compact Plates.

(power and data) are for use with 200x200mm bases and Raised Floor Round Metal Lid floorbox only.

Optional Extras

PART NO.	DESCRIPTION
NXLC-01GRY	Cord Cap – Grey (RAL 7011)
NXLC-01LGY	Cord Cap – Light Grey (RAL7046)
NXLC-01BGE	Cord Cap – Beige (RAL 1019)
CUBA-1	Plate Height Adjustment Kit +/- 10mm. Suitable for 265x265mm and 340x265mm boxes only
CUBA-2	Plate Height Adjustment Kit +/- 10mm. Suitable for 100x200mm and 200x200mm boxes only
CX-10	Earthing Kit, pack of 10

Side Adaptor Plates



SIDE PLATE	CUBP200-01	CUBP200-02	CUBP200-03	CUBP200-04	CUBP200-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 100x38
No. per plate		2/2	2	1	
SIDE PLATE	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	
SIDE PLATE	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

See page 67 for information regards PVCu ducting, page 68 for metal ducting. * Knockouts 20mm and 25mm.



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screeded floor systems



range introduction

Cablelink Plus Screed System provides adaptable power and data distribution highways in screeded floors.

Specifically designed to offer superior load bearing performance and greater robustness.

The Screed System consists of Service Outlet Boxes, Junction Boxes, Vertical Access Boxes, PVCu and Metal Ducting. These can be used together to provide a complete layout in floors with a screed depth as low as 53mm.

feature benefits

- Tested to EN50085-2-2 to accept 5000N load
- The system incorporates numerous design features to ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Suitable for screeded depth from 53mm to 110mm
- Floorboxes are IP2X rated in accordance with BS EN50085-1
- Choice of 1, 2, 3 or 4 compartment floorboxes
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- PVCu ducting manufactured from 100% recycled material
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

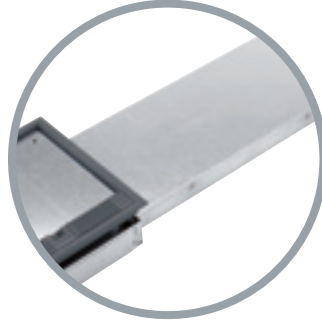
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TESTED TO pr EN50085-2-2 TO ACCEPT 5000N LOAD

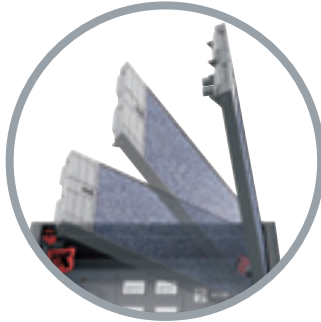
DUCTING

- Choice of PVCu or metal
- PVCu ducting sizes: 90 x 35mm and 60 x 25mm
- PVCu ducting manufactured from 100% recycled material



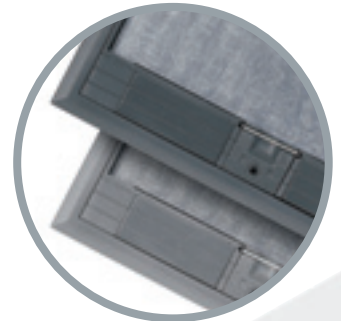
LID OPENING TO 80°

- Self closing lid in accordance with draft IEC 61534-22



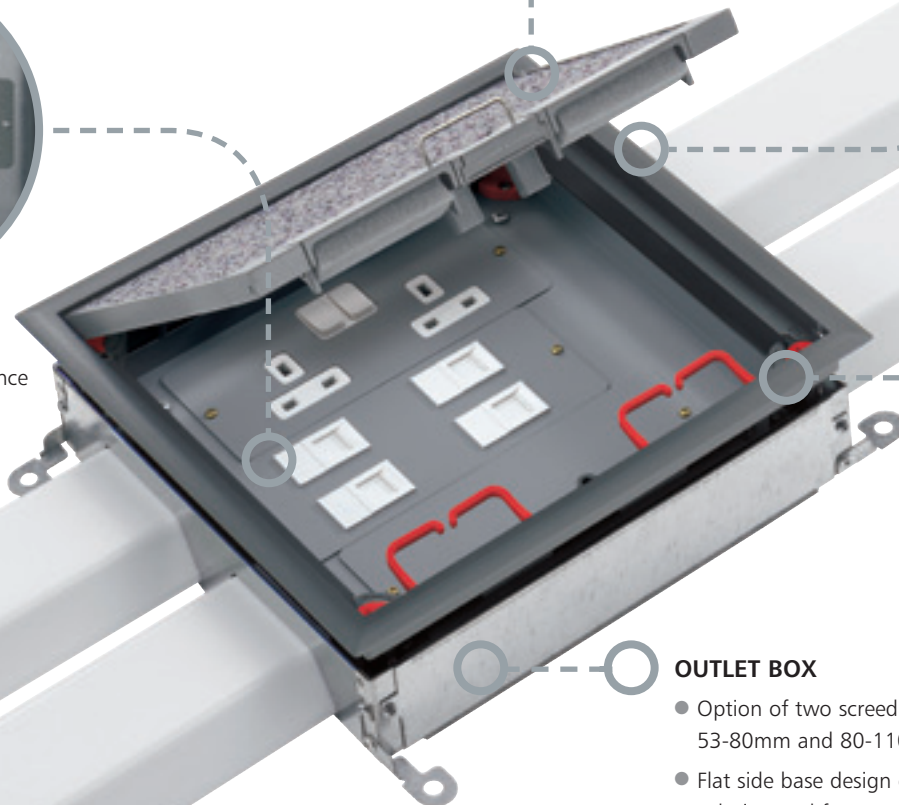
OUTLET BOX COLOUR

- 'Grey' or 'Light Grey' option



STAGGERED PLATES

- Provides strain relief clearance for moulded plugs
- stagger only available with 3 and 4 compartment floorboxes



OUTLET BOX

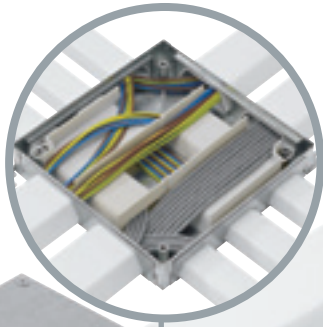
- Option of two screed depth variants: 53-80mm and 80-110mm
- Flat side base design ensures a stronger screed solution and faster taping
- Optional 10mm plate height adjustment kit for increased wiring space to support Cat 6 compliance
- IP2X rated in accordance with BS EN 50085-1

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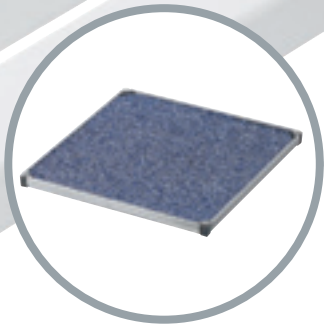
JUNCTION BOX FLY OVER

- Allows for 'through', 'tee', 'angle' and 'crossover' configurations
- Supports Cat 6 compliance



RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid



JUNCTION BOX

- Supplied with plain lid and cable flyover, optional recessed lids available



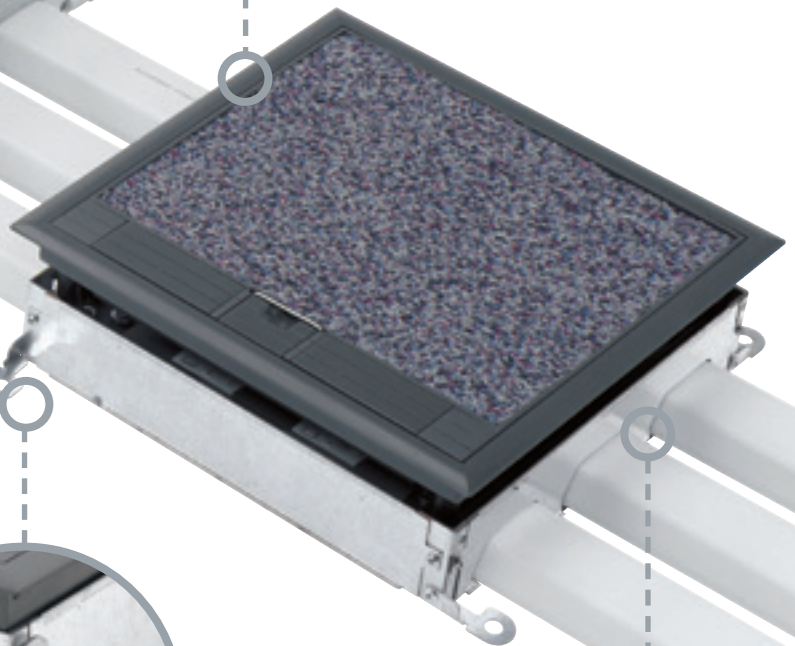
BASE FIXING FEET

- Fast fix installation



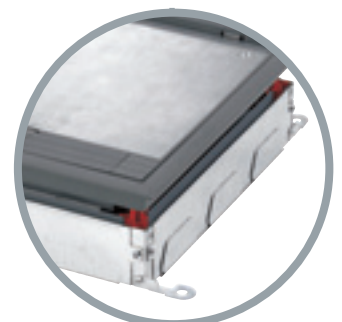
DISPOSABLE STEEL SCREEDING LID

- Supplied with all Cablelink Plus Screed Floorboxes
- Recyclable



SIDE ADAPTOR PLATE OPTIONS

- Selection of side plates to suit PVCu or metal ducting



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Service Outlet Box

TESTED TO EN50085-2-2 TO ACCEPT 5000N LOAD

ROBUST CORD CAPS

- Designed to improve retention

HANDLE

- Designed for improved accessibility

OPTIONAL LOCKABLE LID

- Added security when not in use

CABLE RETAINERS

- Supplied as standard

LID

- Simple carpet cut out
- 8mm or 12mm recessed lids available
- Can be hinged from either of two sides

SQUARE BOX OPTION

- 90° rotation of floorbox for system flexibility

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

OPTIONAL LID TETHER

- Added security
- Eliminates lid losses

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

COMPARTMENT SEGREGATION

OUTLET BOX

- Option of two screed depths: 53-80mm and 80-110mm
- Flat sided base design ensures a stronger screed solution and faster taping
- Optional 10mm plate height adjuster kit for greater screed depths to support Cat 6 compliance
- IP2X rated in accordance with BS EN50085-1

BASE FIXING FEET

- Fast fix installation

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Screeded Outlet Boxes

The Service Outlet Box should be positioned directly on the structural floor slab. The box provides location and connection facilities for power and data service outlets.

Service Outlet Box selector guide

- Service Outlet Boxes are ordered as two parts – “Base” and “Frame and Lid”
- Base – identify screed depth, number of compartments required and preferred box size
- Frame and Lid – choose trim colour and lid recess depth
- Side Adaptor Plates – choose alternative to PVC ducting plates if required
- Accessory Plates – select from wide range of power and data options – see page 69
- Optional Extras – e.g. lid tether and 10mm plate height adjustment kit for increased wiring space
- Alternative deeper Service Outlet Boxes for alternative screed depths are available – please contact Customer Services for details, 01745 532343

Base



BASE SIZE COMPARTMENT	100 x 200mm* 1	200 x 200mm 2	265 x 265mm 2	265 x 265mm 3	340 x 265mm 3	340 x 265mm 4
Screed 53-80mm 35mm wiring space	CUB100UK-1	CUB200UK-2	CUB265UK-2	CUB265UK-3	CUB340UK-3	CUB340UK-4
Screed 80-110mm 35mm wiring space	CUB100XUK-1	CUB200XUK-2	CUB265XUK-2	CUB265XUK-3	CUB340XUK-3	CUB340XUK-4

Increased wiring space of 45mm below the plate is required to achieve Cat 6 compliance. Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit - part number CUBA-1 or CUBA-2.

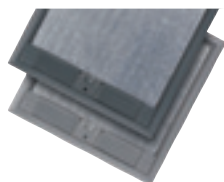
For 200x200mm bases, use 'Compact' power and data plates only – see page 69.

Disposable steel screed lid (recyclable) supplied as standard.

If screed depth is 53mm, reduce wiring space to 25mm by use of suitable CUBA kit and use side wired socket outlets – see page 69.

Supplied with PVC Ducting side plates. Number of knockouts varies by size: 100x200mm – 1 x 60x25mm, 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x265mm – 3 x 90x35mm. * These boxes will only accept CXP10745.

Frames and Lid



FRAME/LID SIZE	100 x 200mm	200 x 200mm	265 x 265mm	340 x 265mm
Recess: 8mm	CXL100-8GRY CXL100-8LGY	CXL200-8GRY* CXL200-8LGY*	CXL265-8GRY* CXL265-8LGY*	CXL340-8GRY* CXL340-8LGY*
		CXL200-12GRY CXL200-12LGY	CXL265-12GRY CXL265-12LGY	
Recess: 12mm**				

Choose from Grey (GRY) or Light Grey (LGY) finish.

* Lockable option available – add suffix 'L' e.g. CXL265-8GRYL. Floorboxes must never be locked whilst in use. Not supplied with key.

An optional 2mm lid packer is available when used with thinner carpet tiles – see Optional Extras below.

If a 12mm lid is required for use in 80-110mm screed, please add 'X' e.g. CXL265X-12GRY.

** For 12mm recess depth lids use Onix Plus™ base, see page 51 i.e. NXB265UK-3

Side Adaptor Plates



SIDE PLATE	CUBP200-01	CUBP200-02	CUBP200-03	CUBP200-04	CUBP200-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 100x38
No. per plate		2/2	2	1	
SIDE PLATE	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	
SIDE PLATE	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

See page 67 for information regards PVCu ducting, page 68 for metal ducting. * Knockouts 20mm and 25mm.

Optional Extras



Lid Tether

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
CX-01	Cable Retainers – pack of 10	CXLP100	Lid Packer 100x200 2mm
CX-02	Lid Tether Kit – pack of 5	CXLP200	Lid Packer 200x200 2mm
CX-03GRY	Cord Cap for 100x200 and 200x200mm Lid – Grey	CXLP265	Lid Packer 265x265 2mm
		CXLP340	Lid Packer 340x265 2mm
CX-03LGY	Cord Cap for 100x200 and 200x200mm Lid – Light Grey	CUBA-1	Plate Height Adjustment Kit +/- 10mm. Suitable for 265x265mm and 340x265mm boxes only
CX-04GRY	Cord Cap for 265x265 and 340x265mm Lid – Grey	CUBA-2	Plate Height Adjustment Kit +/- 10mm. Suitable for 100x200mm and 200x200mm boxes only
CX-04LGY	Cord Cap for 265x265 and 340x265mm Lid – Light Grey	CRXKEY	Lock Key – pack of 2
CX-05	Ratchet levelling kit		



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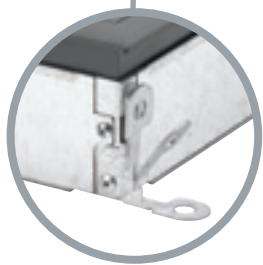
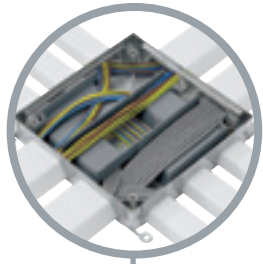
Junction Box

CHOICE OF JUNCTION BOX LID

- Supplied with a plain lid, optional recessed lids available

JUNCTION BOX FLY OVER

- Allows for 'through,' 'tee,' 'angle' and 'crossover' configurations
- Supports Cat 6 compliance



BASE FIXING FEET

- Fast fix installation

TESTED TO pr EN50085-2-2 TO ACCEPT 5000N LOAD

DISPOSABLE STEEL SCREEDING LID

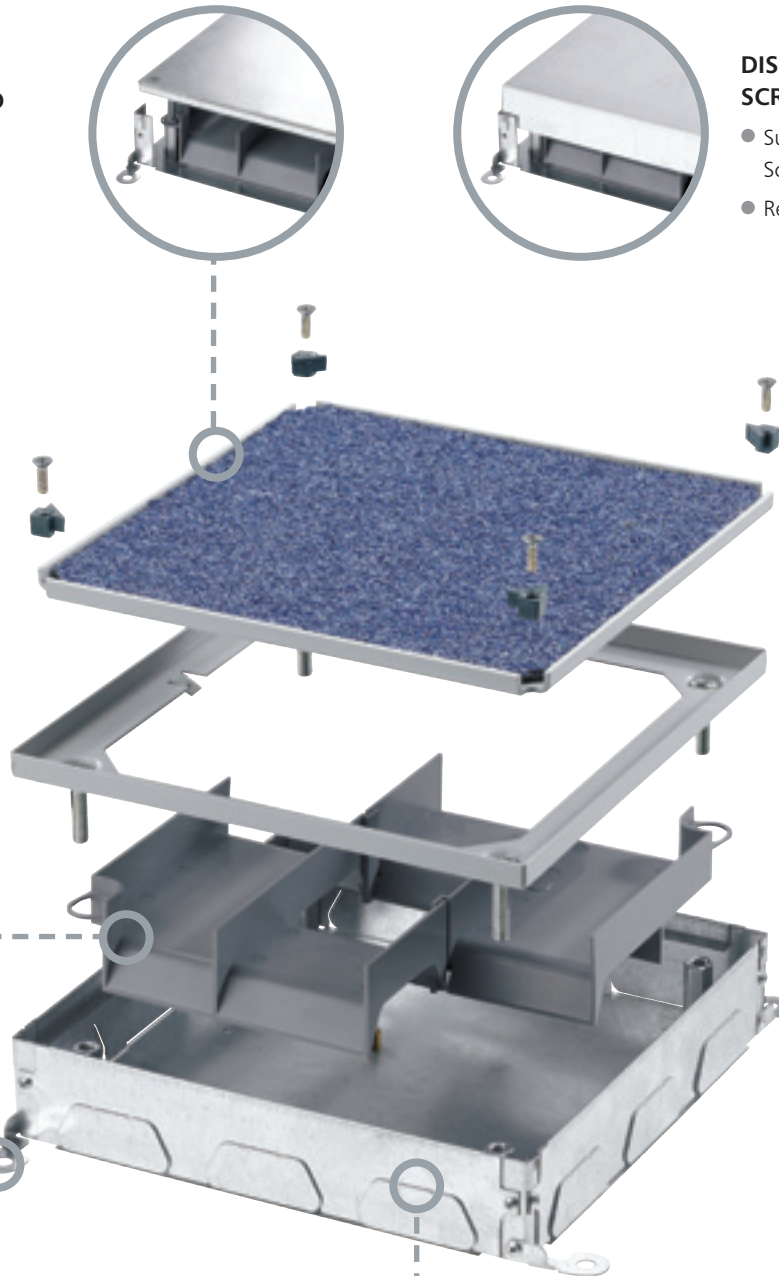
- Supplied with all Cablelink Plus Screed Floorboxes
- Recyclable

OPTIONAL RECESSED LID

- Simple carpet cut out
- Optional 'lid packer' available

JUNCTION BOX

- Option of two screed depth variants: 53-80mm and 80-110mm
- Flat side base design ensures a stronger screed solution and faster taping
- Supplied with cable flyover
- IP2X rated in accordance with BS EN 50085-1



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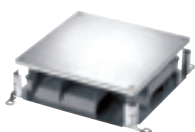
Junction Boxes

The Junction Box should be positioned directly on the structural floor slab. The box provides access to cables at the intersection of ducting runs or changes of direction. The ducting forms a system of tunnels to segregate services within the junction box.

Junction Box selector guide

- Junction Boxes are supplied as a base, lid and cable flyover as standard
- Lid – supplied complete as a plain flat lid as standard
- Alternative deeper Junction Boxes are available – please contact Customer Services for details, 01745 532343

Junction Box



DEPTH/BASE SIZE	200 x 200mm	265 x 265mm	340 x 340mm
53-80mm	CUJ200UK	CUJ265UK	CUJ340UK
80-110mm	CUJ200XUK	CUJ265XUK	CUJ340XUK

Supplied complete with a plain flat lid, disposable steel screed lid and cable flyover as standard.
 Supplied with four side adaptor plates, 4 x PVC ducting plates – number of ducting knockouts varies by size: 200x200mm – 2 x 60x25mm, 265x265mm – 3 x 60x25mm and 340x340mm – 3 x 90x35mm. See below for alternative plates.

Recessed Lid and Frame



RECESS/BASE SIZE	200 x 200mm	265 x 265mm	340 x 340mm
DEPTH 53-80MM			
Recess depth 8mm	CUJL200-8GRY CUJL200-8LGY	CUJL265-8GRY CUJL265-8LGY	CUJL340-8GRY CUJL340-8LGY
Recess depth 12mm	CUJL200-12GRY CUJL200-12LGY	CUJL265-12GRY CUJL265-12LGY	CUJL340-12GRY CUJL340-12LGY
DEPTH 80-110MM			
Recess depth 8mm	CUJL200X-8GRY CUJL200X-8LGY	CUJL265X-8GRY CUJL265X-8LGY	CUJL340X-8GRY CUJL340X-8LGY
Recess depth 12mm	CUJL200X-12GRY CUJL200X-12LGY	CUJL265X-12GRY CUJL265X-12LGY	CUJL340X-12GRY CUJL340X-12LGY

Supplied as a recessed lid to accept floor covering.

Side Adaptor Plates



SIDE PLATE	CUBP200-01	CUBP200-02	CUBP200-03	CUBP200-04	CUBP200-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 100x38
No. per plate		2/2	2	1	
SIDE PLATE	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	
SIDE PLATE	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

See page 67 for information regards PVCu ducting, page 68 for metal ducting.

* Knockouts 20mm and 25mm.

Optional Extras

PART NO.	DESCRIPTION
CXLP200J	Junction Box Lid Packer 200x200 2mm
CXLP265J	Junction Box Lid Packer 265x265 2mm
CXLP340J	Junction Box- Lid Packer 340x340 2mm



Vertical Access Boxes

The Vertical Access Box provides draw-in facilities to allow for a change of plane or direction of the ducting and connection to skirting trunking systems, distribution boards, boxes etc.

- Conduit or ducting can be run vertically or horizontally from the box

Vertical Access Boxes – for PVC Ducting



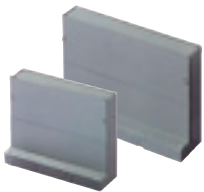
LIST NO.	TYPE	LIST NO.	TYPE
Shallow		Full Access	
SF88152	Twin	SF88172	Twin
SF88153	Triple	SF88173	Triple

When using VAB with 2 or 3 compartment skirting trunking boxes, with dimension B = 270 should be used to give maximum accessibility.

Cover Plates – for Vertical Access Boxes (PVC Ducting)

LIST NO.	TYPE	LIST NO.	TYPE
Overlapping Shallow		Flush Shallow	
SF88180	Twin	SF88176	Twin
SF88181	Triple	SF88177	Triple
Overlapping Full Access		Flush Full Access	
SF88188	Twin	SF88184	Twin
SF88189	Triple	SF88185	Triple

Vertical Access Boxes – for Metal Ducting



BOX SIZE	265mm	340mm
Vertical Access Box	CUV265UK-2	CUV340UK-3

Supplied with flush cover plate and Metal Ducting side adaptor plate:

265mm box = CUBP265-08, 340mm box = CUBP340-08.

If using 60 x 25mm ducting the ducting can be joined into the box buy using SF88150.

Spares

BOX SIZE	265mm	340mm
OVERLAPPING COVER PLATES	CUVP265	CUVP340

Supplied as singles.

Ducting and Accessories

The ducting is intended primarily for installation within the floor screed thickness, but it can also be cast direct into the structural slab, attached to the soffit with access through from the floor above or used for vertical service risers.

- Underfloor ducting is available in two sizes 90mm x 35mm and 60mm x 25mm. Comes in 12 metre packs and is white in colour.
- Extruded from PVCu using 100% recycled material
- Maximum cable capacity and strength with minimum screed cover

PVCu Ducting



3m lengths	
60x25mm	SF88200
90x35mm	SF88100

Ducting Bends



PART NO.	DUCTING SYSTEM	ANGLE	MEAN CENTRE LINE RADIUS
PVCu ducting horizontal bends			
SF88144	SF88100	90°	465mm
SF88145	SF88100	45°	465mm
SF88248	SF88200	90°	450mm
SF88249	SF88200	45°	450mm
PVCu ducting vertical bends			
SF88142	SF88100	90°	100mm
SF88143	SF88100	45°	100mm
SF88246	SF88200	90°	95mm
SF88247	SF88200	45°	95mm

Ducting Bends require the jointing sleeve to connect to the ducting.

Accessories



PART NO.	DESCRIPTION
SF88106	Jointing Sleeve (SF88100). Pack of 5
SF88206	Jointing Sleeve (SF88200). Pack of 5
CUFC60-2	2 Compartment Fixing Clip (SF88200). Pack of 10
CUFC60-3	3 Compartment Fixing Clip (SF88200). Pack of 10
SF88116	2 Compartment Fixing Clip (SF88100). Pack of 10
SF88117	3 Compartment Fixing Clip (SF88100). Pack of 10
SF88105	Conduit entry adaptor for PVC ducting VAB's pack of 5
SF88107	Ducting Adaptor. Pack of 5
SF88150	Duct Reducer. Pack of 5

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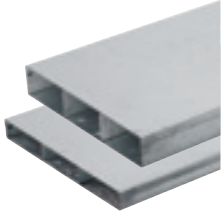
Metal Ducting System

Metal Ducting Systems are offered as an alternative to PVCu systems.

- Provide greater cable protection
- Provides EMC Screening
- Manufactured from pre-galvanised sheet steel



Metal Ducting



DUCTING WIDTH	100mm	225mm	225mm	250mm	275mm	275mm	300mm
COMPARTMENT	1	2	3	3	2	3	3
DUCTING HEIGHT							
25mm	CUD100-25-1	CUD225-25-2	CUD225-25-3	CUD250-25-3	CUD275-25-2	CUD275-25-3	CUD300-25-3
38mm	CUD100-38-1	CUD225-38-2	CUD225-38-3	CUD250-38-3		CUD275-38-3	CUD300-38-3

Supplied in lengths of 2.44m.

Joint Sleeves



DUCTING WIDTH	100mm	225mm	250mm	275mm	300mm
DUCTING HEIGHT					
25mm	CUDJ100-25	CUDJ225-25	CUDJ250-25	CUDJ275-25	CUDJ300-25
38mm	CUDJ100-38	CUDJ225-38	CUDJ250-38	CUDJ275-38	CUDJ300-38

Fixing Clips



DUCTING WIDTH	100mm	225mm	250mm	275mm	300mm
DUCTING HEIGHT					
25mm	CUDF100-25	CUDF225-25	CUDF250-25	CUDF275-25	CUDF300-25
38mm	CUDF100-38	CUDF225-38	CUDF250-38	CUDF275-38	CUDF300-38

Side Adaptor Plates



SIDE PLATE	CUBP200-01	CUBP200-02	CUBP200-03	CUBP200-04	CUBP200-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 100x38
No. per plate		2/2	2	1	

SIDE PLATE	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	

SIDE PLATE	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

See page 67 for information regards PVCu ducting, page 68 for metal ducting.

* Knockouts 20mm and 25mm.

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Accessory Plates

Accessory plates are common to most ranges, they will fit all Cablelink Plus Screed, Single Pan, Flush and Onix Plus™ Floorboxes.

Standard Plates are for use with 100x200mm, 265x265mm and 340x265mm Floorboxes.

Compact Plates are for use with 200x200mm Floorboxes only.

Both Standard and Compact Plates are supplied in Light Grey (LGY) finish.

Serviced Power Plates



CXP10730



CXP10731NS



CXP10745



CXP10735

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP10730*†	CXPC10730*†	2G 13A Switch Socket Outlet
CXP10730NS*†	CXPC10730NS*†	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731†	CXPC10731†	2G 13A Socket Outlet
CXP10731NS†	CXPC10731NS†	2G 13A Socket Outlet Non-Standard (T Pin)
CXP10745*	CXPC10745*	2G 13A Angled Socket Outlet – Power plate for CUB100
CXP10735**	CXPC10735**	2G 13A 30mA Passive RCD Switch Socket Outlet
CXP10760		2G 13A Switch Socket Outlet – Side Wired
CXP10720*		3G 13A Socket Outlet
CXP10740**	CXPC10740**	2G 16A 2P+E German Socket Outlet (non UK)
CXP10741	CXPC10741	2G 15A 127V USA Socket Outlet (non UK)

* For Clean Earth wiring – add suffix 'CE' e.g CXP10730**CE**.

** Requires a 45mm wiring space.

Clean Earth switched power plates are identified with red rockers, unswitched with red sockets.

† Plates are supplied with the MK Electric 3-pin safety shutter. Compact Plates (power and data) are for use with 200x200mm bases only.

If 2 socket plates or a socket plate and wave plate are to be used then only CXP10745 and CXPC10745 socket plate can be used.

Unserviced Power Plates

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP20106	CXPC20106	1G Accessory Plate with 60.3mm fixing centres
CXP20107*		2G accessory Plate with 120.6mm fixing centres

* Recommend that an MK Electric Aspect, Edge or Logic Plus Socket Outlet is used. Can only be used in 4 module floorboxes.

Unserviced Data Plates



CXP20201



CXP20215



CXP20301



CXP30201

STANDARD PART NO.	COMPACT PART NO.	DESCRIPTION
CXP20101	CXPC20101	2 x LJU/2 Apertures
CXP20200	CXPC20200	2 x LJU6C Apertures
CXP20201*	CXPC20201*	4 x LJU6C Apertures
CXP20215	CXPC20215	4 x LJU6C Wave Apertures
CXP20205	CXPC20205	4 x Krone Apertures
CXP20301	CXPC20301	6 x LJU6C Apertures
CXP30501	CXPC30501	2 x Euro 50x50mm Apertures
CXP30503		1 x Euro 150x50mm Aperture
CXP30502	CXPC30502	2 x 45x45mm Apertures
CXP20117	CXPC20117	4 x Alphasnap (Aperture 47.5mm x 23.6mm)
CXP20500	CXPC20500	4 x ST Fibre Connector Apertures
CXP30201	CXPC30201	Blank Plate

* Data apertures are supplied as knockouts.

Compact Plates (power and data) are for use with 200x200mm bases only.

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Screed System Product Selection Table

SCREED OUTLET BOX							
BASE SIZE		100 X 200 mm	200 X 200 mm	265 X 265 mm	265 X 265 mm	340 X 265 mm	340 X 265 mm
NUMBER OF COMPARTMENTS		1	2	2	3	3	4
BASE	53-80mm	CUB100UK-1	CUB200UK-2	CUB265UK-2	CUB265UK-3	CUB340UK-3	CUB340UK-4
	80-100mm	CUB100XUK-1	CUB200XUK-2	CUB265XUK-2	CUB265XUK-3	CUB340XUK-3	CUB340XUK-4
LID & FRAME	8mm RECESS	CXL100-8GRY	CXL200-8GRY	CXL265-8GRY	CXL265-8GRY	CXL340-8GRY	CXL340-8GRY
ADAPTOR PLATE SIZE		N/A	200	265	265	340	340
SIDE PLATES AS STD		N/A	2 X CUBP200-03	2 X CUBP265-03	2 X CUBP265-03	2 X CUBP340-04	2 X CUBP340-04
NO. / TYPE OF APERTURE ON SIDE PLATE		20 & 25mm Conduit directly into base unit	2 X PVC 60X25mm	3 X PVC 60X25mm	3 X PVC 60X25mm	3 X PVC 90X35mm	3 X PVC 90X35mm
OPTIONAL SIDE PLATE ADAPTORS		N/A	CUBP200-01	CUBP265-01	CUBP265-01	CUBP340-01	CUBP340-01
		N/A	CUBP200-02	CUBP265-02	CUBP265-02	CUBP340-02	CUBP340-02
		N/A	CUBP200-03	CUBP265-03	CUBP265-03	CUBP340-03	CUBP340-03
		N/A	CUBP200-04	CUBP265-04	CUBP265-04	CUBP340-04	CUBP340-04
		N/A	N/A	CUBP265-08	CUBP265-08	CUBP340-08	CUBP340-08

JUNCTION BOX				
BASE SIZE		200 X 200 mm	265 X 265 mm	340 X 340 mm
NUMBER OF COMPARTMENTS		2	3	3
BASE	53-80mm	CUJ200UK	CUJ265UK	CUJ340UK
	80-110mm	CUJX200UK	CUJX265UK	CUJX340UK
JUNCTION BOX FLY OVER INCLUDED		2 WAY	3 WAY	3 WAY
LID SUPPLIED AS STANDARD		PLAIN FLAT	PLAIN FLAT	PLAIN FLAT
LID OPTIONS AVAILABLE				
DEPTH 53-80mm	8mm RECESS	CUJL200-8	CUJL265-8	CUJL340-8
	12mm RECESS	CUJL200-12	CUJL265-12	CUJL340-12
DEPTH 80-110mm	8mm RECESS	CUJL200X-8	CUJL265X-8	CUJL340X-8
	12mm RECESS	CUJL200X-12	CUJL265X-12	CUJL340X-12
ADAPTOR PLATE SIZE		200	265	340
SIDE PLATES AS STANDARD		4 X CUBP200-03	4 X CUBP265-03	4 X CUBP340-04
NO. / TYPE OF APERTURE ON SIDE PLATE		2 X PVC 60X25mm	3 X PVC 60x25mm	3 X PVC 90X35mm
OPTIONAL SIDE PLATE ADAPTORS		CUBP200-01	CUBP265-01	CUBP340-01
		CUBP200-02	CUBP265-02	CUBP340-02
		CUBP200-03	CUBP265-03	CUBP340-03
		CUBP200-04	CUBP265-04	CUBP340-04
			CUBP265-08	CUBP340-08

VERTICAL ACCESS BOX	METAL DUCTING	
	265mm	340mm
NO OF COMPARTMENTS	2	3
VERTICAL ACCESS BOX	CUV265	CUV340
COVER PLATES AS STANDARD	FLUSH	FLUSH
COVER PLATES OPTIONAL	CUVP265	CUVP340

VERTICAL ACCESS BOX	PVC _u DUCTING			
	SHALLOW		FULL ACCESS	
SIZE	2	3	2	3
NUMBER OF COMPARTMENTS	2	3	2	3
VERTICAL ACCESS BOX	SF88152	SF88153	SF88172	SF88173
COVER PLATES - OVERLAPPING	SF88180	SF88181	SF88188	SF88189
COVER PLATES - FLUSH	SF88176	SF88177	SF88184	SF88185



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overhead systems



range introduction

Interact Overhead Power System is a powertrack catering for single, 3 phase or dual circuit applications suitable for standard, permanent live, uninterrupted or dedicated power supply up to 480V.

Interact is fast and simple to install and has the additional benefit of all standard tap-offs being designed to be 'fail safe' should any incompatible track/tap-off connections be made.

feature benefits

- **Patented crocodile 'snap fast' joint**
- **Strong, rigid but light weight structure**
- **40A system available, 25A system on request**
- **All tap-offs are key coded and fail safe**
- **Rigidity of design enables greater spans between fixing brackets – for a simpler and faster installation**
- **Complies with the requirements of BS EN61534**
- **Supports compliance with the 17th Edition of the Wiring Regulations**
- **Quality, reliability and safety as standard**
- **5 year guarantee**

overhead systems

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OVERHEAD POWER TRACK

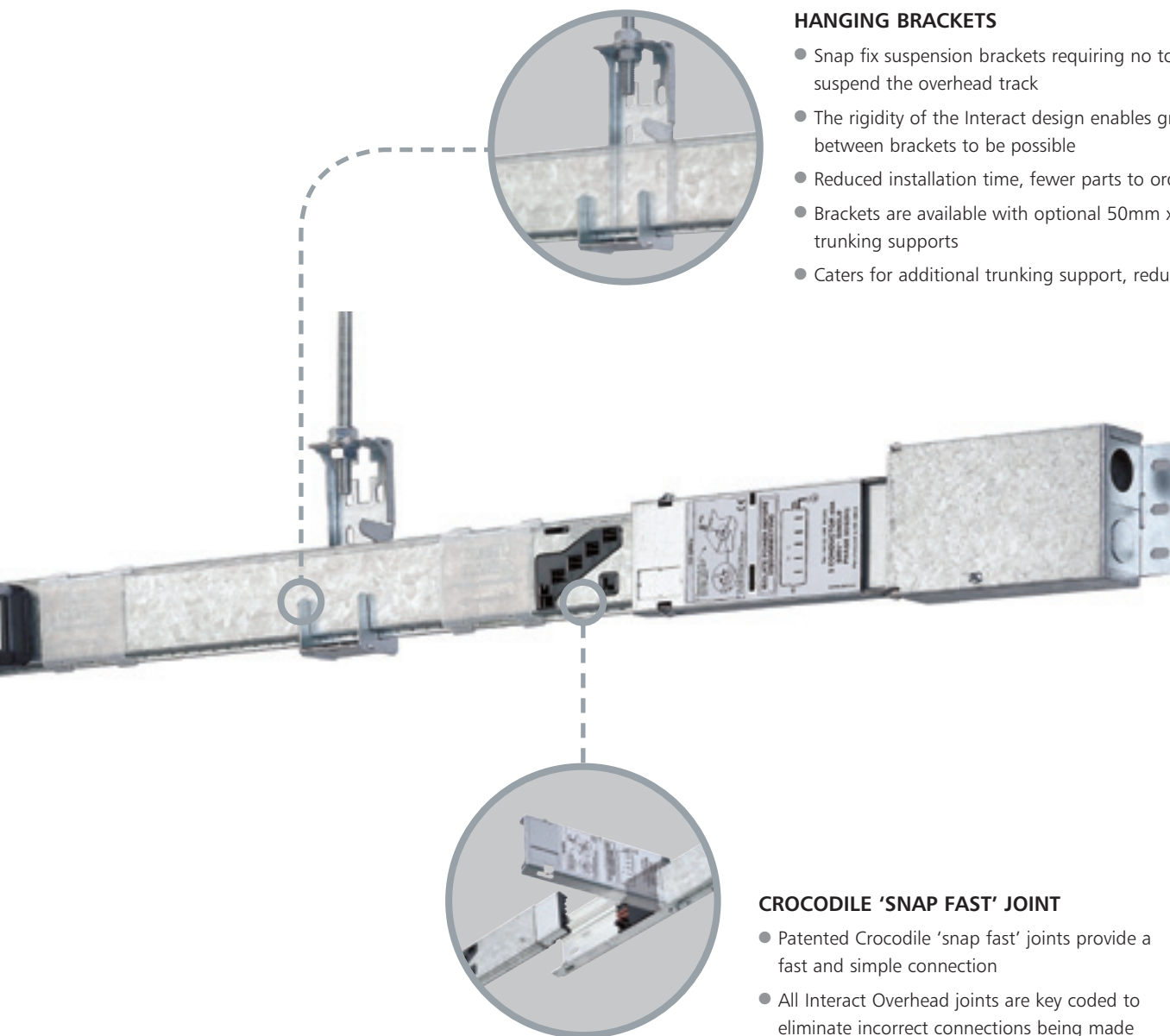
- Strong and rigid construction to guarantee a robust installation and secure track and fittings suspension
- Lightweight structure enabling a faster installation and easier handling on site
- Available in a choice of 2m and 4m lengths to suit
- 500mm socket outlet pitch as standard

**EXTENSIVE RANGE OF TAP-OFFS**

- Comprehensive pre-wired range available, fused and unfused, 1m, 3m and 5m lengths – other lengths available on special request, all designed to meet exact requirements
- All Interact Overhead tap-offs are key coded to eliminate incorrect connections being made
- In situations where incompatible connections are accidentally made, all standard tap-offs are designed to be 'fail safe' – eliminates potential health and safety risks

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overhead systems

**HANGING BRACKETS**

- Snap fix suspension brackets requiring no tools to fit, suspend the overhead track
- The rigidity of the Interact design enables greater spans between brackets to be possible
- Reduced installation time, fewer parts to order
- Brackets are available with optional 50mm x 50mm trunking supports
- Caters for additional trunking support, reduces costs

CROCODILE 'SNAP FAST' JOINT

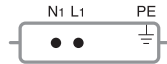
- Patented Crocodile 'snap fast' joints provide a fast and simple connection
- All Interact Overhead joints are key coded to eliminate incorrect connections being made
- Strong and rigid construction to guarantee a robust installation and secure track connections

Whilst the track can remain 'live' when connecting or disconnecting tap-offs, appliances should not be on load.

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40 AMP SYSTEM



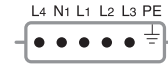
2+PE



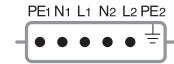
3+PE



4+PE



5+PE

DUAL GREY
5+PE

Powertrack



2+PE	3+PE	4+PE	5+PE	DUAL GREY 5+PE
Length 2m Pitch 500mm 4 sockets				
LB42053	LB42054	LB42055	LB42056	LB42056GRY
Length 4m Pitch 500mm 8 sockets				
LB44053	LB44054	LB44055	LB44056	LB44056GRY

All overhead powertrack sockets do not contain shutters and are rated to IP2X.
25A available on request.

Infeeds



2+PE	3+PE	4+PE	5+PE	DUAL GREY 5+PE
Standard				
LF43	LF44	LF45	LF46	LF46GRY
Opposite End Feed				
LF43 LH	LF44 LH	LF45 LH	LF46 LH	LF46GRY LH

Terminal Capacity = 16mm²

Opposite end feed suffix must be added when ordering where applicable.

Each opposite end feed comes with an end cap to close off the powertrack run.

Flexible Interlinks







2+PE	3+PE	4+PE	5+PE	DUAL GREY 5+PE
1m				
LI4310	LI4410	LI4510	LI4610	LI4610GRY
3m				
LI4330	LI4430	LI4530	LI4630	LI4630GRY

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overhead systems

Tap-off Leads

TYPE	PIN POSITION			CURRENT RATING	PROTECTION	1 METRE	3 METRE	5 METRE	KEY CODE			
						2.5mm ²	2.5mm ²	2.5mm ²				
 SINGLE PHASE	N1	L1	PE	25A	Unfused	LT12501C	LT32501C	LT52501C				
				16A	Fused	LT11601C	LT31601C	LT51601C				
	N1	L2	PE	25A	Unfused	LT12502C	LT32502C	LT52502C				
				16A	Fused	LT11602C	LT31602C	LT51602C				
	N1	L3	PE	25A	Unfused	LT12503C	LT32503C	LT52503C				
				16A	Fused	LT11603C	LT31603C	LT51603C				
L4	N1	PE	25A	Unfused	LT12504C	LT32504C	LT52504C					
 SINGLE PHASE + L4	L4	N1	L1	PE	25A	Unfused	LT12521C	LT32521C	LT52521C			
	L4	N1	L1(F)	PE	16A	Fused	LT11621C	LT31621C	LT51621C			
	L4	N1	L2	PE	25A	Unfused	LT12522C	LT32522C	LT52522C			
	L4	N1	L2(F)	PE	16A	Fused	LT11622C	LT31622C	LT51622C			
	L4	N1	L3	PE	25A	Unfused	LT12523C	LT32523C	LT52523C			
	L4	N1	L3(F)	PE	16A	Fused	LT11623C	LT31623C	LT51623C			
ALL PHASE	N1	L1	L2	L3	PE	25A	Unfused	LT12505C	LT32505C	LT52505C		
ALL PHASE + L4	L4	N1	L1	L2	L3	PE	20A	Unfused	LT12506C	LT32506C	LT52506C	
CIRCUIT 1 GREY	PE1	N1	L1			25A	Unfused	LT12501GRY	LT32501GRY	LT52501GRY		
						16A	Unfused	LT11601GRY	LT31601GRY	LT51601GRY		
CIRCUIT 2 GREY			N2	L2	PE2	16A	Unfused	LT11625GRY	LT31625GRY	LT51625GRY		
						25A	Unfused	LT12525GRY	LT32525GRY	LT52525GRY		
DUAL GREY	PE1	N1	L1	N2	L2	PE2	20A	Unfused	LT12526GRY	LT32526GRY	LT52526GRY	

(F) = Fused.

LSF Cable is supplied as standard. For PVC cable replace suffix 'C' with suffix 'PVC'. For Dual Grey system simply add suffix 'PVC'. Suffix must be added when ordering.

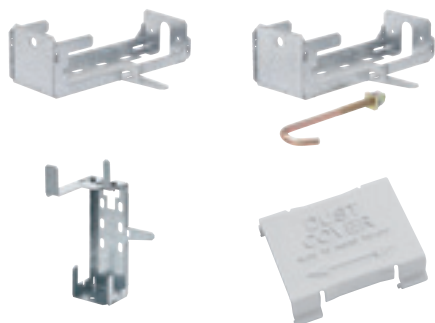
Polarity of tap-offs are configured to enable L4 to be used as a continuous conductor for Emergency Line.

When using tap-offs ensure that the line is protected by an appropriately rated protective device.

Key codes shown are from the perspective of the powertrack socket with the keycode in the top right corner.

The tap-off key code will be a mirror image when viewed from underneath.

Other components



PART NO.	DESCRIPTION
UK2	Hanging Bracket to suit up to ø10mm tie rod
UK2E	Hanging Bracket with 50mm x 50mm Trunking Suspension Arm
UK4	Hanging Bracket with Hook
UKDC	Additional Dust Cover

Please refer to Interact Overhead Power Technical – page 115, for details regards support bracket spacing and maximum suspended load.

overhead systems

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range introduction

Hangmann is a range of hanging service modules providing a portable and convenient means of distributing power, data and compressed air flow from overhead supplies.

Available as either a power module or combined power and compressed air module the units are made from a flame retardant grade of polyamide and are durable and resistant to chemicals.

feature benefits

- **Robust design to suit demanding applications**
- **Wide range of modules for added flexibility**
- **Suspension bar – easy positioning of unit**
- **Ideal for garages, workshops and factories**
- **Quality, reliability and safety comes as standard**
- **5 year guarantee**

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overhead systems

OVERHEAD POWER MAKES A SAFER WORK ENVIRONMENT

SUSPENSION HOOK

- Fast and simple installation

ROBUST DESIGN

- Impact resistant
- Fire retardant
- Chemical resistant

PRE-ASSEMBLED OPTIONS

- Ease of installation
- Simplified ordering

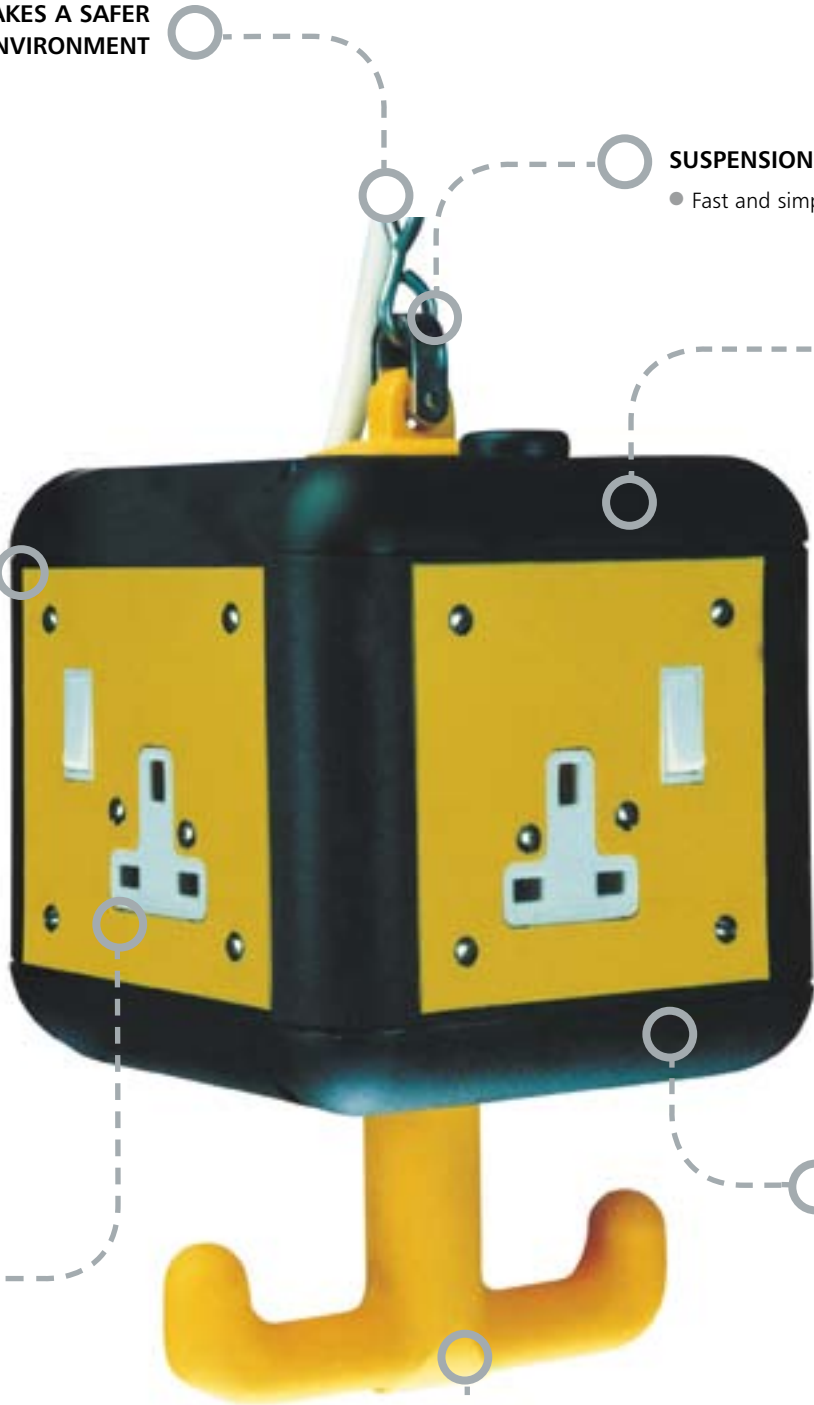
RANGE OF MODULES AND MOUNTING PLATES

- MK Commando products available
- Compressed air modules available
- Built in flexibility

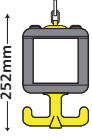
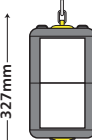
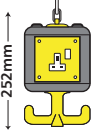
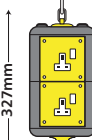



SUITED FOR USE IN 'TOUGH' ENVIRONMENTS

GRAB HANDLE

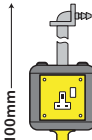

- Hang tools
- Easy positioning of unit



Power Modules




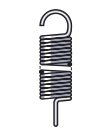
	PART NO.	DESCRIPTION
	SM34900A0	Single Empty module*
	SM34900C0	Double Empty Module*
* Selection of accessories and mounting plates are available below.		
	PART NO.	DESCRIPTION
	SM49004	Single Starter Pack: 2 x 13A Switch socket outlets 2 x Blank plates
	SM49005	Single Starter Pack: 4 x 13A Switch socket outlets
	SM49006	Double Starter Pack: 4 x 13A Switch socket outlets 4 x Blank plates
	SM49007	Double Starter Pack: 8 x 13A Switch socket outlets
	SM49010	Single Starter Pack: 3 x 13A Switch socket outlets 1 x Mounting plate for 2 x LJU6C modules (includes segregation backing plate)

Compressed Air Modules

	PART NO.	DESCRIPTION
	SM34901A0	Single Empty air Module*
	SM49019	Single Air Starter Pack: 4 x 13A Switch socket outlets
	SM49018	Single Air Starter Pack: 2 x 13A Switch socket outlets 2 x Blank plates

* Selection of accessories and mounting plates are available.

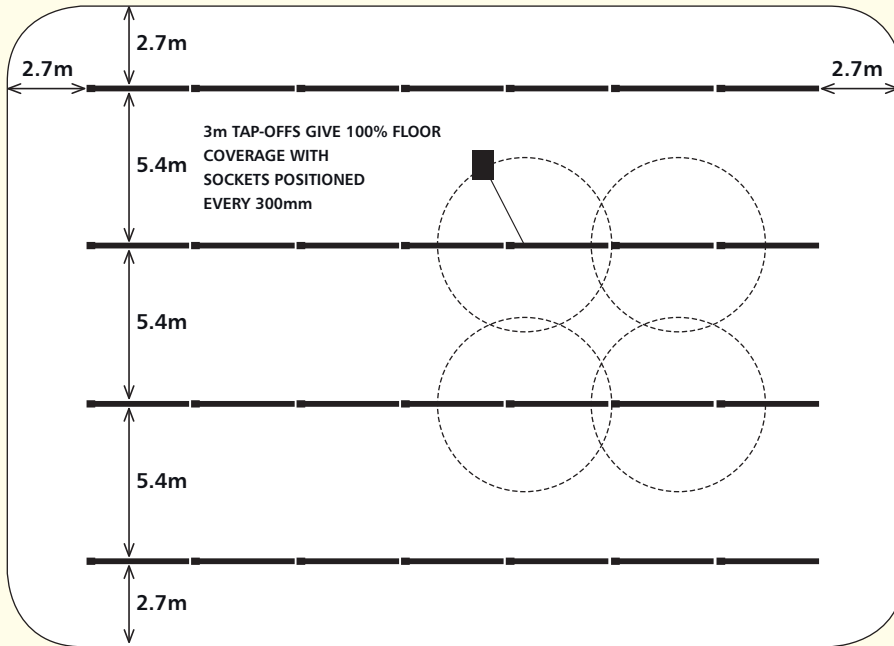
Mounting Plates and Accessories

	PART NO.	DESCRIPTION
	SM49008	13A Socket Outlet
	SM49009	13A Switch socket outlet
	SM49011	Mounting plate for 2 x LJU6C modules (includes segregation back plate)
	SM49012	130V 16A Straight socket – Yellow
	SM49013	250V 16A Straight socket – Blue
	SM937896	Mounting plate for BS EN60309-2 socket outlet, 47mm fixing centres
	SM937895	Mounting plate for BS EN60309-2 socket outlet, 60mm fixing centres
	SM910101	Blank mounting plate
	SMCHAIN5	Suspension chain – 5m length
	SM42449	Spring VHF80 80N
	SM980911	Balancer Unit
	SM980922	Locking balancer unit

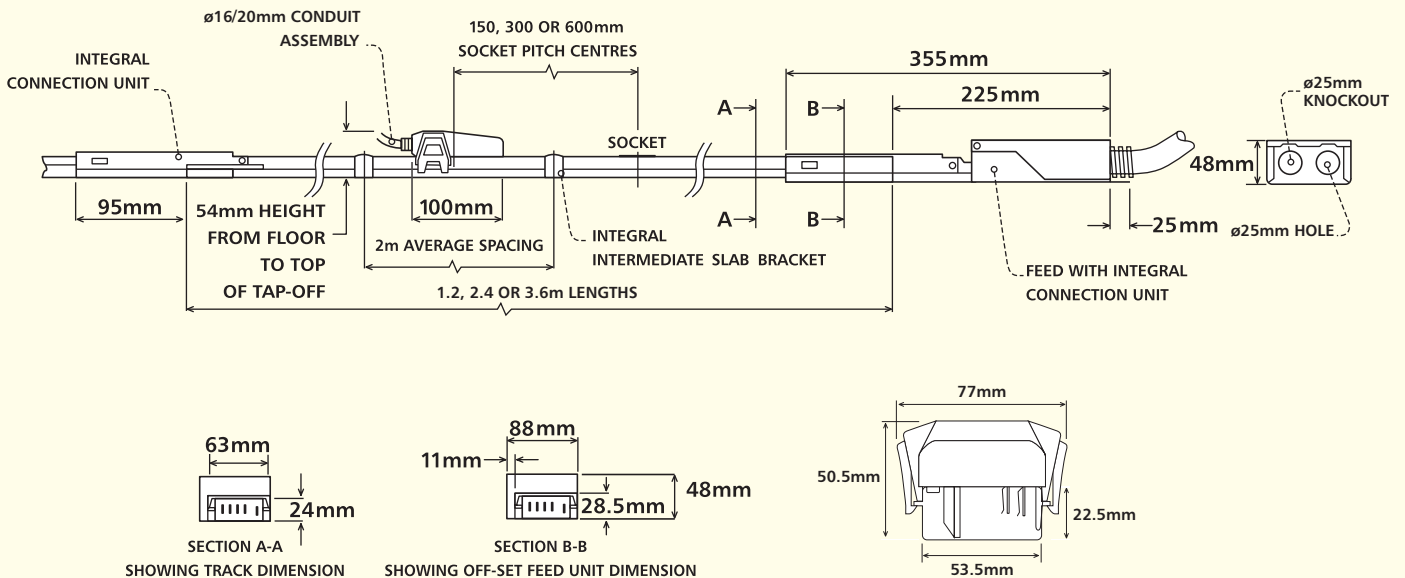
Alternative configurations, including data and circuit protection options are available via the MK Design Service.
Optional Self retracting balancer with ratchet lock also available via the MK Design Service, see page 7.

Interact Underfloor Power

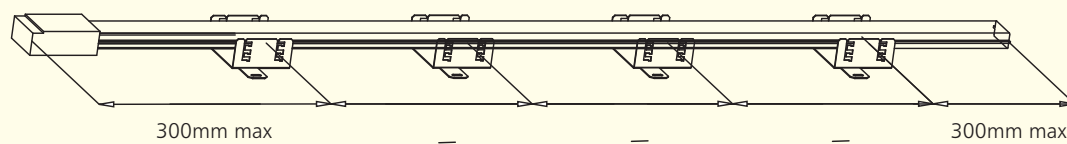
Typical floor layout



Dimensions



Elevating fixing Brackets should be positioned within 300mm from either end of a track run and either side of all joints.



Minimum support requirement:

- 3.6 metre length = 4 brackets equally spaced
- 2.4 metre length = 3 brackets equally spaced
- 1.2 metre length = 2 brackets equally spaced

Interact Underfloor Power

Technical Specification

Underfloor 63A and 40A – complies with BS EN 61534:2003

Manufactured within ISO 9000-9002 environment.

Electrical Specification	63A	40A	
Rated Current	63	40	A
Rated Voltage	480	480	V
Frequency	50/60	50/60	Hz
Conditional Short Circuit Rating	16	16	kA
Resistance per Copper Conductor (At ambient temperature 20°C)	1.3	3.0	mΩ/m
Impedance per Copper Conductor (At ambient temperature 20°C)	1.3	1.3	mΩ/m
Volt Drops (Full load, concentrated at one end) (Line + Neutral)			
Powertrack	2.9	2.9	mV/A/m
Feed Unit	0.6	0.6	mV/A
Tap-off Connection	1.6	1.6	mV/A
+ 4mm ² Cable	10	10	mV/A/m
+ 2.5mm ² Cable	18	18	mV/A/m
Joint	0.6	0.6	mV/A
Flexible interlink Unit	0.8	0.8	mV/A
+ 10mm ² Cable	4.0	4.0	mV/A/m
Earth Fault Loop Impedance			
Line Conductor	1.5	1.5	mΩ/m
Earth			
– Case	1.0	1.0	mΩ/m
– Copper	1.5	1.5	mΩ/m
– Copper + Case	0.75	0.75	mΩ/m
Feed Unit (Line + Earth)	0.6	0.6	mΩ
Tap-off Connection (Line + Earth)			
+ 4mm ² Cable R1 + R2	10	10	mΩ/m
+ 2.5mm ² Cable R1 + R2	18	18	mΩ/m
Joint (Line + Earth)	0.6	0.6	mΩ
Flexible Interlink Unit (Line + Earth)	0.8	0.8	mΩ
+ 10mm ² Cable R1 + R2	3.7	3.7	mΩ/m

3m is actually 2.7/2.8 fully stretched shortened by 0.1 - 0.2m of slack to ensure remains flexible when wired up to module/

Mechanical Data

	63A	40A	
Max. No. of Copper Conductors	5	5	
Conductor Cross Section Area (Nominal)	14.4	14.4	mm ²
Powertrack Casing Copper Equivalent (Where Casing is Protective Earth)	14.5	14.5	mm ²
Cable Termination Capacity	16	16	mm ²
Tap-off Cable 32A	4.0	4.0	mm ²
Tap-off Cable 13A	2.5	2.5	mm ²
Tap-off Conduit Sizes	16/20	16/20	Ømm
Flexible Interlink Cable	10	10	mm ²
Flexible Interlink Conduit	25	25	Ømm
Integral Feed Conduit Entry	1 x 25	1 x 25	Ømm
Feed Conduit Entry	2 x 25	2 x 25	Ømm
IP Rating	4X	4X	

Materials Specification

Powertrack Casing, Feeds and Brackets	Galvanised Steel
Conductors	High Conductivity Copper
Dust cover	
Powertrack Insulators	63A – polyamide and Polyester 40A – PVC Sockets / Tap-off Plug / Joint
Mouldings	Noryl SE1 (Modified PPO)
Shutter	Polycetal
Tap-off/Interlink Flexible Conduit	Galvanised Steel
Tap-off Cable (Singles in Conduit)	LSF Cable to BS 7211 (PVC Cable to BS 6004 available on request)
Tap-off Cable (Multi-core)	Multi-core Cable to BS 6500 & BS 7211 LSF cable standard (PVC Cable available on request)
Tap-off Pins	
– Line, Neutral & Copper Earth	Copper and Phosphorous Bronze, tin plated
– Casing Earth	Brass, tin plated
Flexible Interlink Cable	10mm ² cable to BS 6231

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raised floor systems

Cablelink Plus Modular Floorbox

Cablelink Plus Raised Modular Floorboxes have been specifically engineered to ensure robustness, a faster installation and maximum life span flexibility.

- Tested to EN50085-2-2 to accept 5000N load
- Quick release blades ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Choice of two frame sizes provide 3 and 4 module solutions to suit all applications
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

Materials

All plastic components are manufactured from UL94 V2 rated nylon.

Metal components are manufactured from pre-galvanised steel, accessory plates are powdercoated or colour coated.

RAL Colours

Grey (GRY) = RAL 7011

Light Grey (LGY) = RAL 7046

Standards

The Cablelink Plus Modular Floorbox supports compliance with the latest edition of the IEE Wiring Regulations (BS 7671:2008) and to BS EN50085 Part 1 and EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

Installation

Cablelink Plus Modular boxes should not be installed in the following situations:

- Where protruding electrical cables are likely to cause a safety hazard
- In passageways, especially where trolleys or other vehicles may be used
- On escape routes, as this may impede the evacuation of the occupants from the building
- Where the cleaning methods employed result in the formation of pools of liquid or soaking of the floor surface
- Desks, chairs, shelving, filing cabinets should not be positioned on the floorbox as this will interfere with opening the lid

Load Testing

Load Testing of Floorboxes to draft pr EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of draft pr EN50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

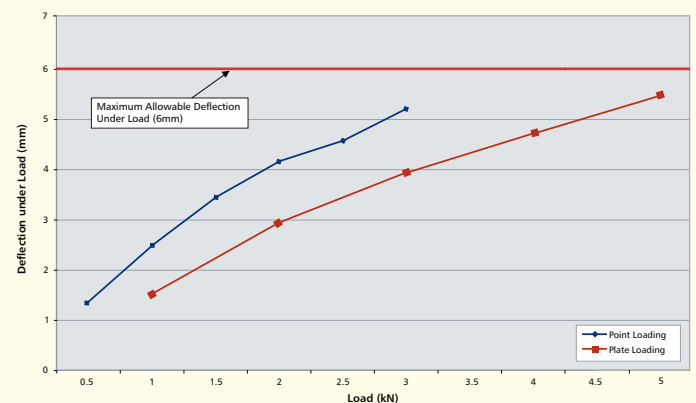
There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm. The loading position is the centre of the lid.

The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

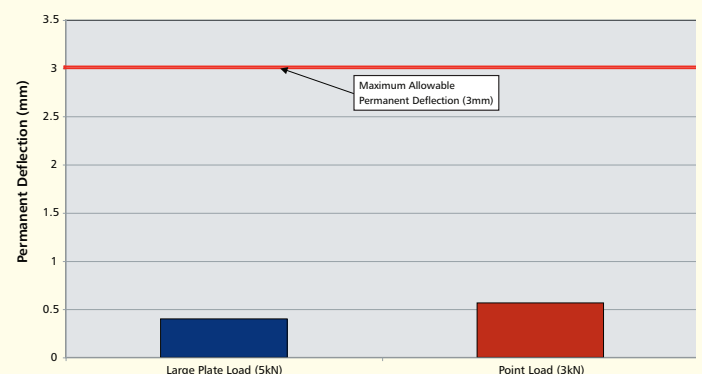
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.55mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm.

Note: This test data specifically refers to the 265 x 265mm sized floorbox frame assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

Lid Deflection – Cablelink Plus 265 x 265mm Frame Assembly

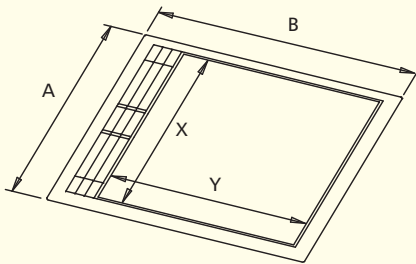
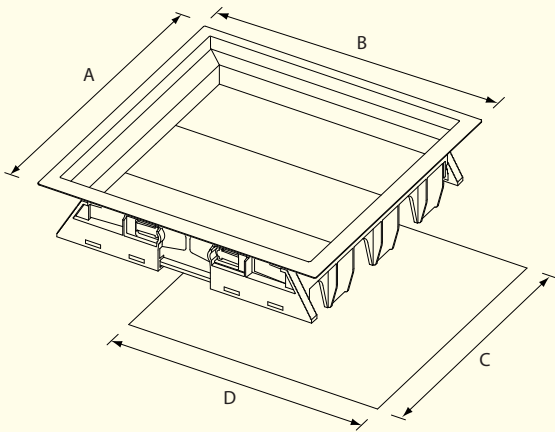


Permanent Deflection After Removal of Load – Cablelink Plus 265 x 265mm Frame

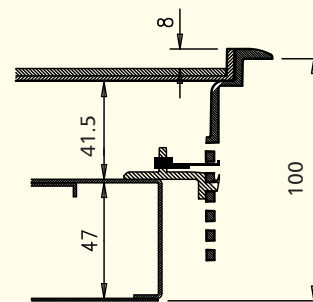


Cablelink Plus Modular Floorbox

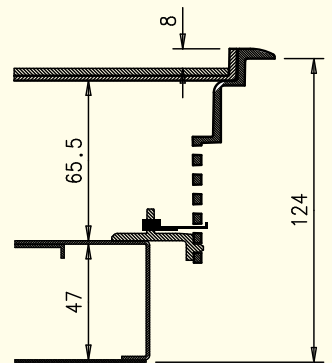
Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions for 3 and 4 Module Box



MINIMUM DEPTH (mm)

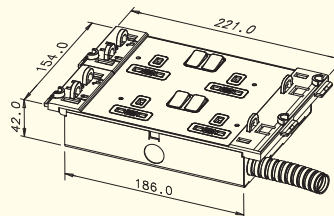


MAXIMUM DEPTH (mm)

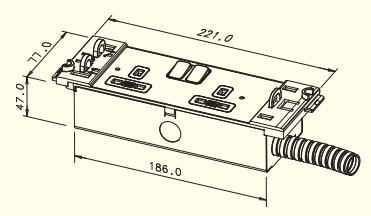


Cablelink Plus Module Dimensions

CRM11750



CRM11730



DIMENSIONS (mm)		
	3 Module	4 Module
A	287	287
B	287	362
C*	266	266
D*	266	341

* Tile cut out general tolerance = +1.5mm.

The table below shows the sizes required for the carpet lid infill for the Cablelink Plus Modular Floorboxes.

	265x265mm		340x265mm	
	X	Y	X	Y
Carpet Infill (mm)	251	219	326	219

Where X is from left to right and Y is from back to front.

Knockouts

	End Knockout (conduit entry)		Side Knockout (interlink)
	20mm	25mm	20mm
Power	2	-	2
Non-Power	1	1	2
6 x LJU6C Only (CRM21301)	-	2	2

Cat 6 Compatibility

With the introduction of Cat 6 data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer's recommendations to prevent transmission losses. As a result MK has introduced 45mm wiring space for the Cablelink Plus Floorbox systems (as well as for the Prestige 3D wall trunking system). This easily accommodates the longer Cat 6 data outlets and leaves sufficient space for the data cable to run underneath it.

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Cablelink Plus Modular Floorbox

Installing Modules into the Cablelink Plus Modular Floorbox

To install a module into the Cablelink Plus Modular Floorbox, firstly ensure the sliding bracket is pushed towards the centre of the module.

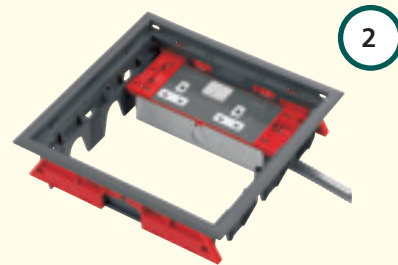
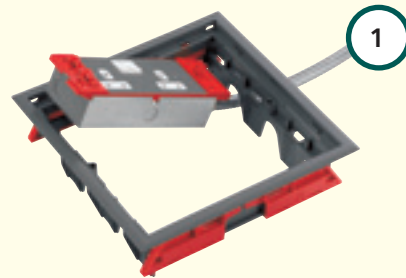
① Lower the opposite end into the box and push the tab firmly into the slot in the ladder at the height the module should be positioned.

The other end is then lowered down so that the tab on the sliding bracket is level with the same slot on the other side of the frame.

② Holding the module with the built in handles, the sliding bracket is then pushed outwards so that the tab engages with the correct slot.

A screw is then used to fix the sliding bracket in place.

The module is now secure. The procedure is reversed in order to remove a module.



Dual Earth Sockets and High integrity Earthing†

Modern offices, schools, universities, laboratories etc, are heavy users of IT, computing and electronic equipment. As most of this equipment is fitted with a filter mechanism to protect data and data transmission against RFI and power surges, small earth leakages emanating from this equipment introduces a current onto the Circuit Protective Conductor (CPC) effectively turning this into a functional earth.

Should the CPC be broken, any equipment downstream of the break is no longer connected to earth. If a fault now occurs in this equipment, the CPC could rise to the mains potential and the fault transferred to other equipment on the circuit. The implicit risks to equipment, data and most importantly users in this situation are dealt with in the 17th Edition of the IEE Wiring Regulations†, and have led MK Electric to introduce Dual Earth Sockets.

Dual Earth Sockets allow the designer and installer to maintain the earth integrity of the system, in accordance the the 17th Edition of the IEE Wiring Regulations† is intended to maintain at all times the CPC to ensure safety.

Clean Earth Sockets

Clean Earth Sockets allow the designer and installer to introduce a protective conductor connecting sensitive equipment i.e. a computer, directly to the main earth.

This reduces the possibility of 'noise' occurring on the protective conductor through induced voltages from other equipment, and hence can have benefits in maintaining data and data transmission integrity.

Earthing on Data modules for Modular Raised

Earthing studs are provided on all Unserviced data modules to enable a reliable connection to earth to be made. Earthing Kit CX-10 is recommended for use to ensure the earthing cable is connected correctly.

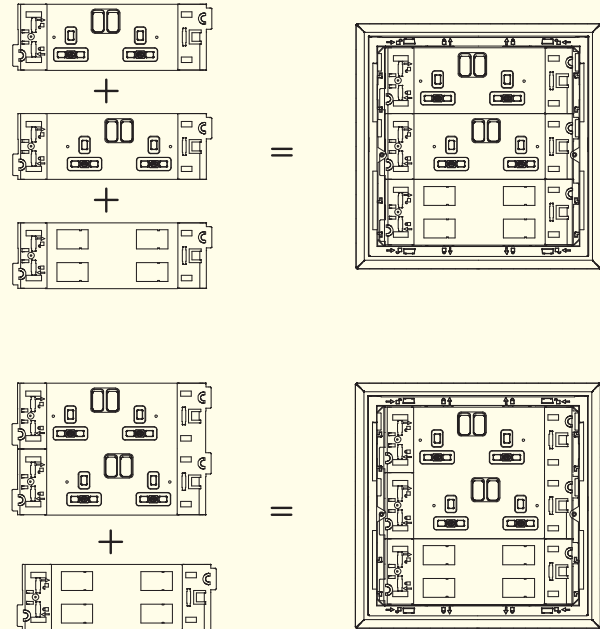
† In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

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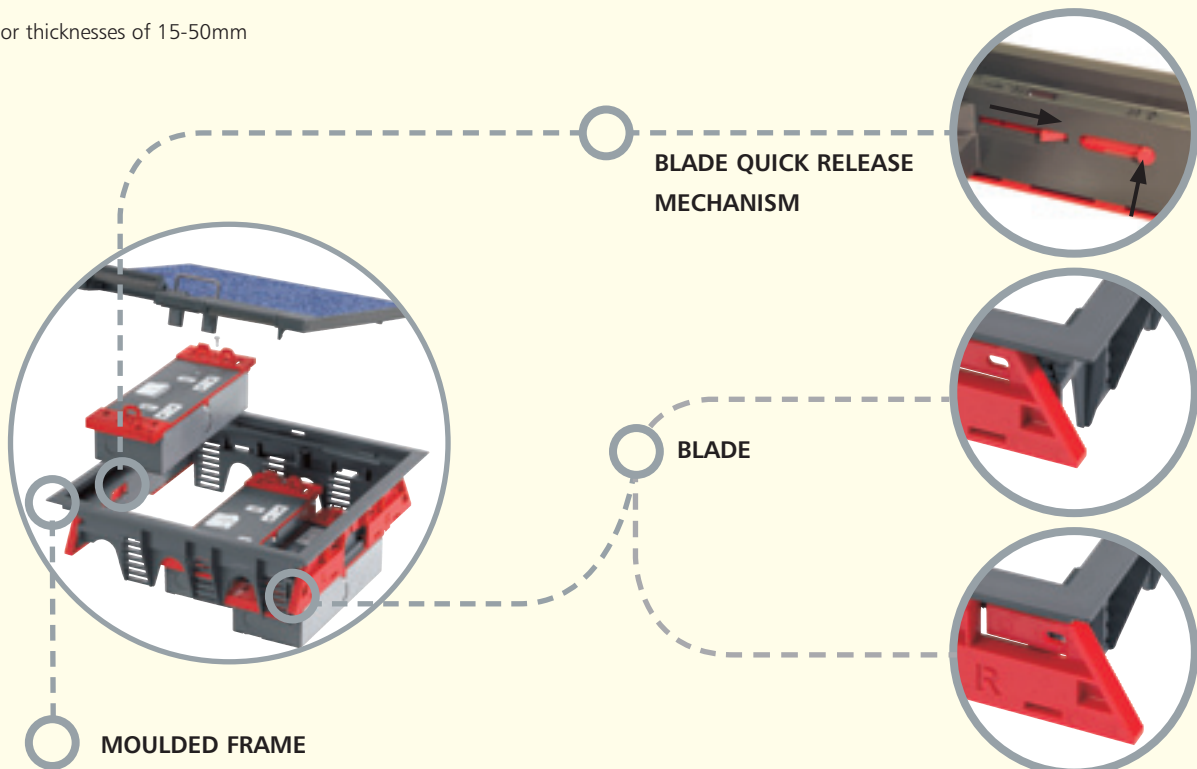
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Serviced Power Modules

- Modules are available Left Hand and Right Hand to achieve a 'staggered' arrangement
- 'Staggered' arrangement ensures strain relief clearance for moulded plug tops
- Add 'RH' suffix for Right Hand Module, e.g CRM11730RH
- When four socket outlets are required, order CRM11750 as 'staggered' arrangement is built in

3 Compartment Boxes**Installing Cablelink Plus Modular Floorbox - Blades**

- Quick release blades to secure firmly in position for a "fit and forget" installation
- No tools required for faster installation
- Self adjusting blades – ensures floorbox remains secure throughout service life
- Fixes to floor thicknesses of 15-50mm



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raised floor systems

Cablelink Plus Single Pan

Cablelink Plus Single Pan Box provides an effective interface between services beneath the floor and the office environment. Robust design, constructed with a single piece metal frame, the floorbox is available with 1 to 4 compartments and a choice of 95mm or 70mm box depths.

- Tested to EN50085-2-2 to accept 5000N load
- Designed to support Cat 6 structured cabling systems
- 70mm pan depth has been designed for those applications with shallow voids
- Device plate can be adjusted to provide increased wiring space or greater plug top clearance
- Self closing lid in accordance with IEC 61534-22
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

Materials

All plastic components are manufactured from UL94 V2 rated nylon.

Metal components are manufactured from pre-galvanised steel, accessory plates are powdercoated or colour coated.

Standards

The Cablelink Plus Single Pan Box supports compliance with the latest edition of the IEE Wiring Regulations (BS 7671) and to BS EN50085 Part 1 and EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

Installation

Cablelink Plus Single Pan boxes should not be installed in the following situations:

- Where protruding electrical cables are likely to cause a safety hazard
- In passageways, especially where trolleys or other vehicles may be used
- On escape routes, as this may impede the evacuation of the occupants from the building
- Where the cleaning methods employed result in the formation of pools of liquid or soaking of the floor surface
- Desks, chairs, shelving, filing cabinets should not be positioned on the floorbox as this will interfere with opening the lid

RAL Colours

Grey (GRY) = RAL 7011

Light Grey (LGY) = RAL 7046

Cat 6 Compatibility

With the introduction of Cat 6 data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer's recommendations to prevent transmission losses. As a result MK has introduced 45mm wiring space for the Cablelink Plus Floorbox systems (as well as for the Prestige 3D wall trunking system.) This easily accommodates the longer Cat 6 data outlets and leaves sufficient space for the data cable to run underneath it.

Load Testing

Load Testing of Floorboxes to draft pr EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of draft pr EN50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

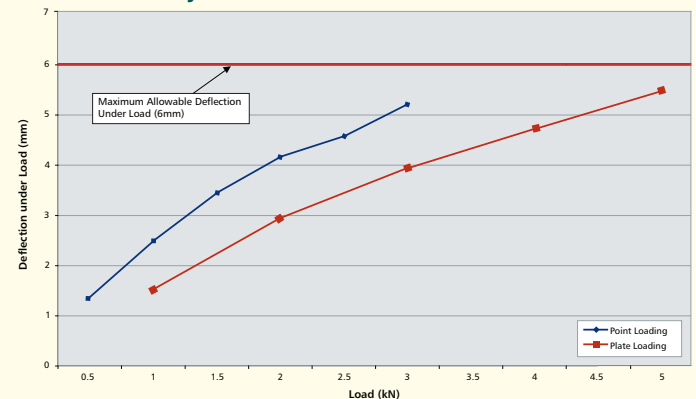
There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

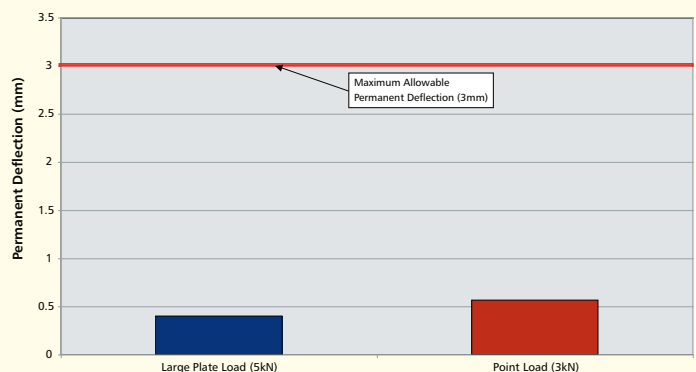
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.55mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm. The loading position is the centre of the lid.

Note: This test data specifically refers to the 265x265mm sized floorbox frame assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

Lid Deflection – Cablelink Plus 265x265mm Frame Assembly



Permanent Deflection After Removal of Load – Cablelink Plus 265x265mm Frame

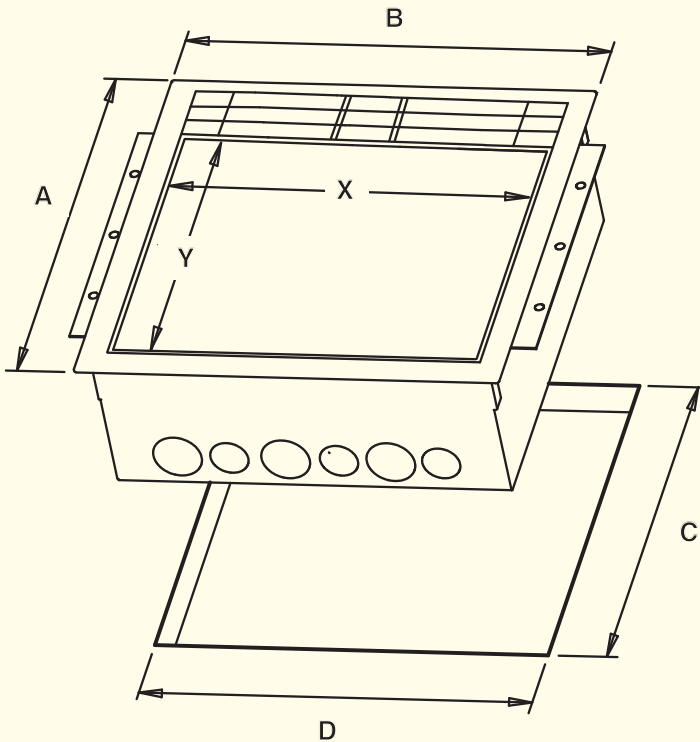


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Cablelink Plus Single Pan

Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions



DIMENSIONS (mm)				
	100x200mm	200x200mm	265x265mm	340x265mm
A	130	222	287	287
B	222	222	287	362
C*	115	210	275	271
D*	206	206	271	350

* General tolerance = +1.5mm.

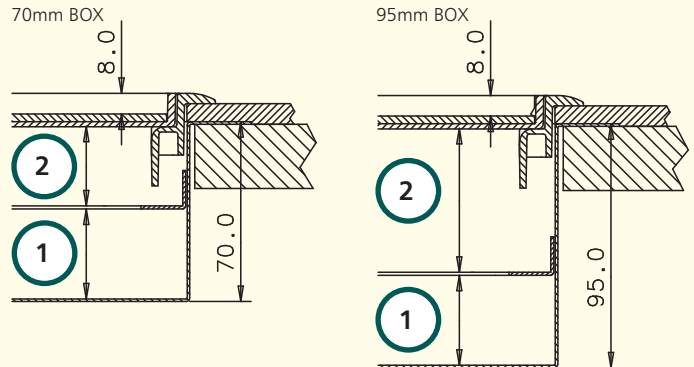
The table below shows the sizes required for the carpet lid infill for the Cablelink Plus Single Pan Floorboxes.

DIMENSIONS (mm)	100x200		200x200		265x265		340x265	
	X	Y	X	Y	X	Y	X	Y
Carpet Infill	93	152	185	152	251	219	326	219

Knockouts

1 compartment box is supplied with 20 and 25mm knockouts. 2, 3 and 4 compartment boxes are supplied with 2x20mm, 1x25mm, 1x32mm knockouts respectively, per compartment.

[†] In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

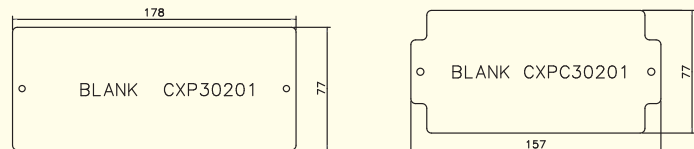


- ① This height can be adjusted on site. Please see table below for dimensions
- ② This dimension assumes a floor covering thickness of 8.0mm. A thinner covering will reduce this dimension accordingly.

Plug Top Clearances

DIMENSIONS (mm)		70mm Box		95mm Box	
1	Wiring Space	35	25	35	45
2	Plug Top Clearance	31	41	56	46

Plate Dimensions (mm)



Dual Earth Sockets and High integrity Earthing[†]

Modern offices, schools, universities, laboratories etc. are heavy users of IT, computing and electronic equipment. As most of this equipment is fitted with a filter mechanism to protect data and data transmission against RFI and power surges, small earth leakages emanating from this equipment introduces a current onto the Circuit Protective Conductor (CPC) effectively turning this into a functional earth.

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Grommets

Feature benefits

- Rotary and split lid variations available to meet all requirements
- One touch self-adjusting mechanism for a fast, simple and secure installation
- Available in 5" and 8", grey or light grey, for flexibility of use
- 5 year guarantee

GROMMET TECHNICAL DIMENSIONS							
List No.	Description	Diameter	Overall Depth	Floor Tile	Cut-out	Knockout	Accessory Cut-out
GR500	Simple Access Grommet	142mm	50mm	All	127mm (+/-1mm)		
GR510	Secure Access Grommet	142mm	60mm	30 – 50mm	127mm (+/-1.5mm)		
GR100	Split Lid Grommet	142mm	60mm	30 – 50mm	127mm (+/-1.5mm)		
GR200	Power Grommet BS 1363 MK SSO	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)	20mm x 3	
GR201	Power Grommet MK Non-Std SSO	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)	20mm x 3	
GR5050	50mm x 50mm Accessory Grommet	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)		50mm x 50mm Euro frame fitted
GR800	2 x LJU6C Grommet	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)		36.7mm x 22.2mm
GR850	Simple Access Grommet	233mm	85mm	30 – 50mm	209mm (+/-1.5mm)		
GR855	Secure Access Grommet	233mm	85mm	30 – 50mm	209mm (+/-1.5mm)		

Cablelink Plus Single Pan - 1 Compartment Floorboxes

- Tested to pr EN50085-2-2 to accept 5000N load
- The range incorporates design features to ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Device plate can be adjusted to provide increased wiring space for greater plug top clearance
- 5 year guarantee

1 COMPARTMENT FLOORBOXES TECHNICAL DIMENSIONS							
List No.	Description	Dimensions	Overall Depth	Floor Tile	Cut-out	Knockout	Accessory Cut-out
CRB100 UK-1GRY	100x200mm Single Compartment Floorbox – 95mm depth, Grey (GRY) finish	130x222mm	95mm	10-50mm	115x206mm (+/-1.5mm)	20mm x 6 25mm x 6	
CRB100 UK-1LGY	100x200mm Single Compartment Floorbox – 95mm depth, Grey (GRY) finish	130x222mm	95mm	10-50mm	115x206mm (+/-1.5mm)	20mm x 6 25mm x 6	
CRP100-RCD	100x200mm Single Compartment Floorbox fitted with RCD Socket Outlet	130x222mm	95mm	10-50mm	115x206mm (+/-1.5mm)	20mm x 6 25mm x 6	
CRP101	100x200mm single Compartment Floorbox fitted with 2G 13A Angled Socket Outlet	130x222mm	95mm	10-50mm	115x206mm (+/-1.5mm)	20mm x 6 25mm x 6	
CRP121	100x200mm Single Compartment Floorbox fitted with 2xLJU6C aperture	130x222mm	95mm	10-50mm	115x206mm (+/-1.5mm)	20mm x 6 25mm x 6	36.7mm x 22.2mm

DeskPod™

Feature benefits

- Custom designed and versatile to suit all requirements
- Choice of factory fitted multi-positional sockets
- Ease of installation – available with pre-wired tap-offs
- Breadth and flexibility of range to suit all specifications
- Manufactured from anodised aluminium and polycarbonate – chemical, colour fade, impact resistant and flame retardant
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

General

The DeskPod™ range is designed & tested to BS 5733 (General requirements for electrical accessories). The sockets are designed and tested to BS 1363 Part 2 (Specification for 13A switched and unswitched socket-outlets).

DeskPod™ is designed to be used in electrical installations to BS 7671 and, with certain restrictions, in installations complying with BS 6396. Further information regarding BS 6396 is given below.

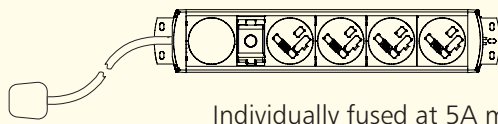
BS 6396: 2002: Electrical systems in office furniture and office screens – specification

Ackermann can supply desk modules that may be used in installations complying to BS 6396.

The following restrictions are placed on these desk modules:

- Maximum current rating = 13A and maximum voltage rating = 250V ac
- The supply cord must connect to the permanent electrical installation via a standard 13A plug to BS 1363-1
- All sockets, connected to a single supply, must be protected as follows:

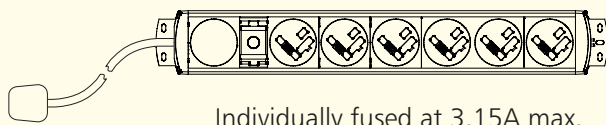
Up to 4 sockets



BS 1363-1
plug

Individually fused at 5A max.
Alternatively use a single 5A protection
device to protect all sockets

Up to 6 sockets



BS 1363-1
plug

Individually fused at 3.15A max.
Alternatively use a single 3A protection
device to protect all sockets

3.15A and 5A

3.5A & 5A fuses 5x20mm to BSEN60127-2:2003 time lag, high breaking current

- No more than six sockets can be connected to a single supply
- No single item of equipment having a rated voltage greater than 250V and rated current greater than 5A must be connected to the desk module
- The desk module must be connected to an electrical supply that has a protective (Earth) conductor

The completed installation must be inspected and tested for:

- Continuity and polarity of the conductors
- Insulation resistance
- Earth continuity

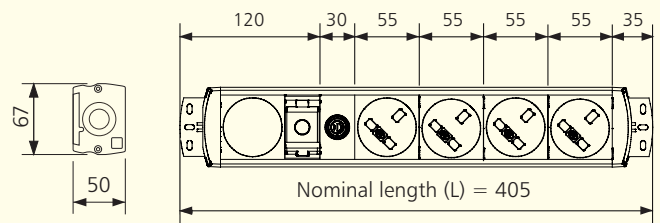
Details of the tests are given in the installation instructions. These tests must be carried out whenever the system is reconfigured.

It is recommended that the installation is periodically maintained, inspected and tested.

For full details of the requirements for the rest of the installation refer to BS 6396.

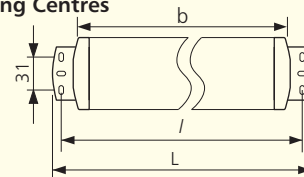
Dimensions

The nominal length of each configuration can be estimated using the dimensions shown in the Custom Design section of this brochure. eg: Part number DP P4010.



Dimensions in mm

Fixing Centres



/Bracket retracted (B)/
Screw fixing pitch (l)
= Nominal length (L) - 17mm
(Bracket extended)

E.g. DP P4010 =
(405 - 17)mm = 388mm

Materials

Main housing

Anodised aluminium extrusion.

Mouldings

High impact, flame retardant grade of polycarbonate.

Internal wiring

Single cables insulated in low smoke, low fume grade of material to BS 7211.

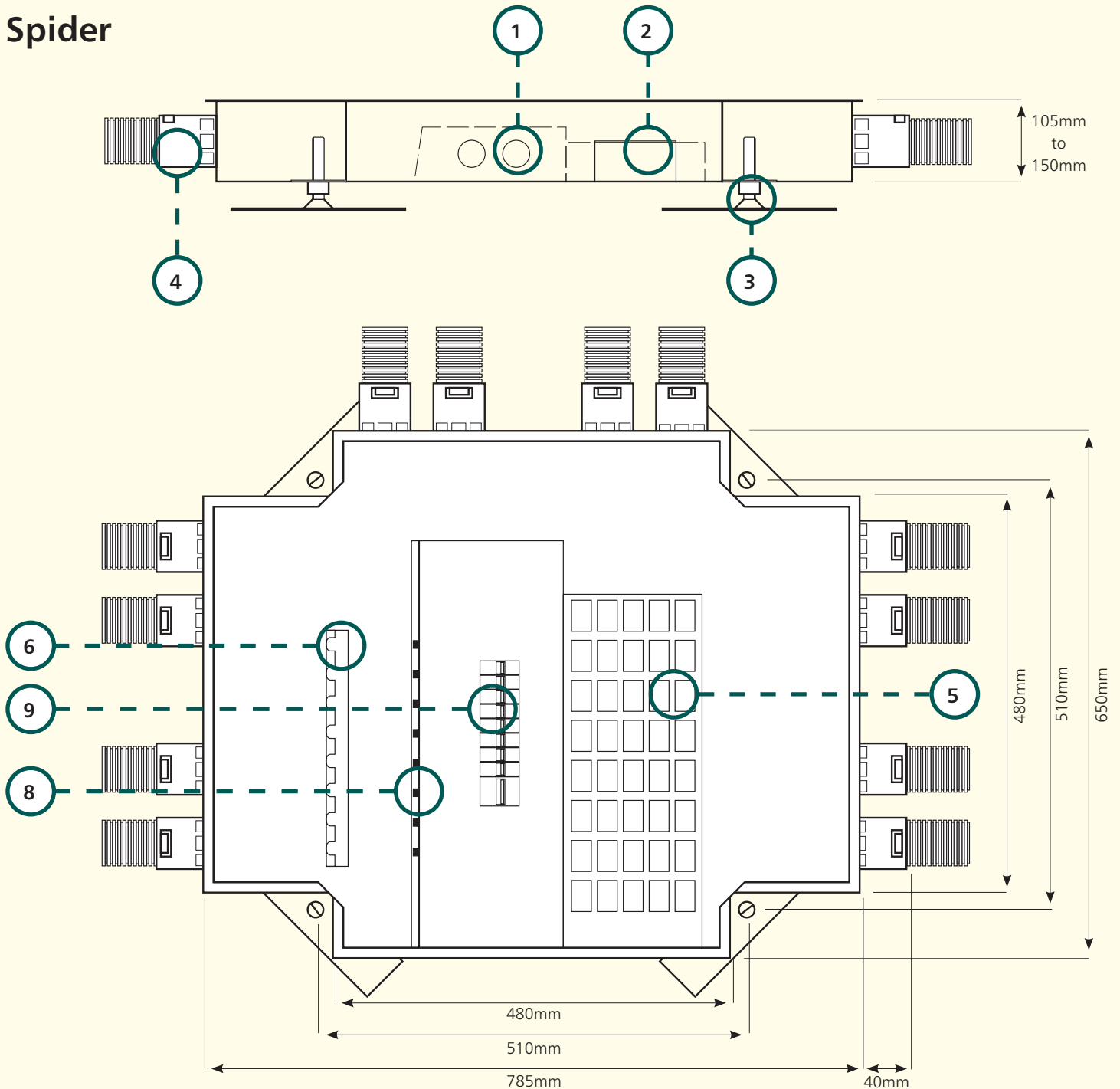
Power leads

Multicore flexible cable to BS 6500. Insulation PVC (low smoke and fume available on request).

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Spider



- ① Incoming power supply via 2 x 25mm diameter knockouts. Maximum cable size using switch disconnecter is 25mm². Maximum cable size with no switch is 25mm²
- ② Aperture (120 x 35mm) provides entry for data and voice cables.
- ③ Mounting feet allow adjustment of up to 150mm for deep voids.
- ④ Up to 12 outlets accommodate 50mm diameter tubing. The tubing is supplied on a reel and is easily cut to the required length.
- ⑤ Up to 40 RJ45 connectors (LUU6C aperture 36.7mm x 22.2mm).
- ⑥ Conduit mounting bracket for securing power leads and earthing conduit.
- ⑦ 63A isolator switch available.
- ⑧ Up to 8 power circuits are accommodated within the hub.
- ⑨ The circuit breakers are rated at 16A and are accessed via a hatchway.

Spider

General

- Minimum floor void 105mm
- Jacking legs are supplied to accommodate floor depths up to 150mm
- For deep floor voids the Spider hub can be mounted on a platform
- Hub manufactured from galvanised steel
- To comply with OFTEL regulations and Low Voltage Directive the power leads are supplied in an earthed flexible metal conduit providing electrical segregation between power and data
- Desking units (DeskPod™) can also be supplied – see page 35 for details

Power Hub

- Incoming supply connected via 2 x 25mm diameter knockouts
- Incoming supply terminal capacity 25mm² (only switch disconnect models)
- Alternative MCB ratings and types available on request

Data Hub

- Up to 40 RJ45 data outlets
- Large (120mm x 35mm) aperture provides entry for data and voice cables
- Data module can be wired off site and installed into the hub complete
- Alternative data options available on request

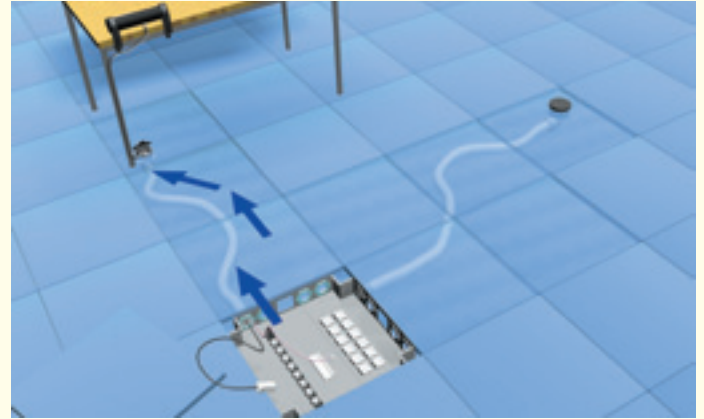
Outlets

- Up to 12 outlets can be connected to the hub
- 50mm diameter umbilical tubing supplied on 25m long reels and cut to length on site to suit any configuration
- Cut out size for floor outlets \varnothing 127mm
- Umbilicals manufactured from fire retardant grade of polyamide

Spider – The Relocation

Step 1

- Lift a single floor tile to reveal the Ackermann Spider hub
- Disconnect the services from the hub and pull cables back to desk



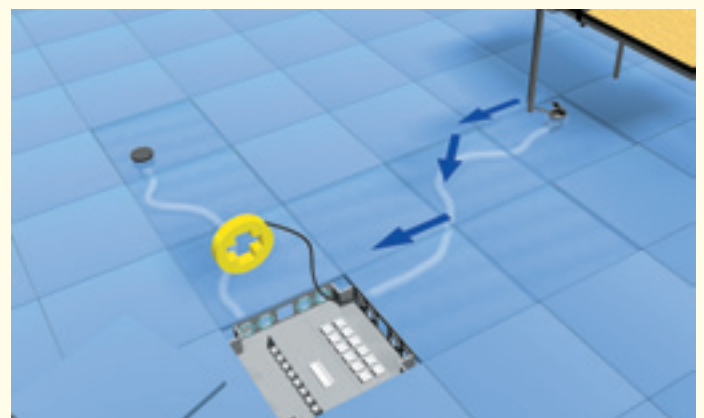
Step 2

- Move desk to new location



Step 3

- Using a cable feeder, pull cables through from new location to the hub
- Re-connect services to their original sockets no need to re-patch data
- Replace tile over the hub
- All this in under ten minutes



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screeded floor systems

Onix Plus™ Floorboxes

Onix Plus™ Floorboxes and Power Grommets are a unique, innovative solution to hard floor power and data distribution requirements in screed floors with coverings such as laminate, wood, stone and marble.

- Wet washable and IP44 when not in use
- Tested to EN50085-2-2 to accept 10,000N load
- Selection of lid recess depths available, allowing for various floor depths
- Designed to support Cat 6 structured cabling systems
- Wide range of power and data accessories available to meet all requirements
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

Materials

Round Aluminium Floorbox

Lid and Frame manufactured in die cast aluminium. Snorkel Cord Outlet mouldings are manufactured from a UL94 V2 rated nylon.

Box Lid and Frames

Lid, load plate and frame manufactured in stainless steel. Cord Outlet mouldings are manufactured from a UL94 V2 rated nylon.

Power Grommet

Service outlet is die cast aluminium, brass or nickel plated brass. The base unit is pre-galvanised steel. Plastic parts are polycarbonate.

RAL Colours

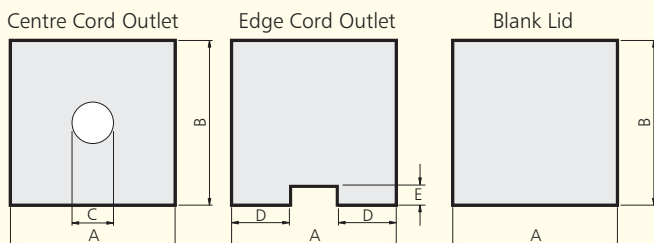
Grey (GRY) = RAL 7011

Light Grey (LGY) = RAL 7046

Beige (BGE) = RAL 1019

Lid Recess Dimensions

The dimensions in the table provide the sizes for the floor covering insert for the lid.



Box size	Dimension (mm)				
	A	B	C	D	E
200x200mm	183	183	102	31	45
265x265mm	248	248	102	63	45
340x340mm	323	323	102	101	45

Note: Due to the weight of the lid and floor covering, a tile lifter, not the cord outlets, should be used to lift these lids.

Wet Wash Test

The plain lid and the centre Snorkel outlet lids have an Ingress Protection rating of IP44, according to BS EN60529: 1992

Standards

These products are designed to withstand heavier than normal traffic loading as found in office buildings. The Onix Plus™ range supports compliance with the requirements of the latest edition of the IEE Wiring Regulations (BS 7671) and to BS EN50085 Part 1 and EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

Centre Cord Outlet Restrictions

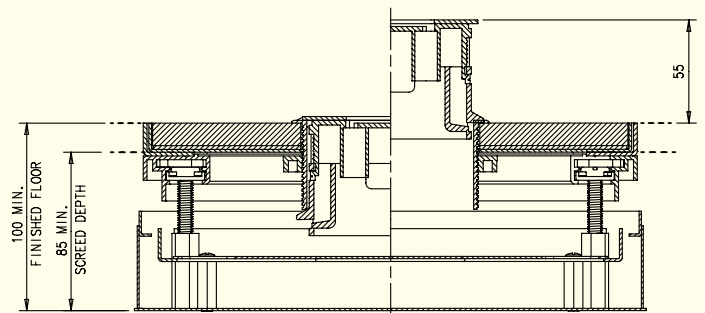
This applies to the Round Aluminium Floorbox and the Box Lid with Snorkel Cord Outlet.

Screed Depth Table – For Snorkel Lid with Flush Accessories

Wiring Space (mm)	Floor Tile Thickness - including adhesive (mm)	Minimum Screed Depth (mm)	Minimum Finished Floor Depth (mm)
25	15	85	100
25	20	80	100
25	25	75	100
25	30	70	100
35	15	95	110
35	20	90	110
35	25	85	110
35	30	80	110
45	15	105	120
45	20	105	120
45	25	95	120
45	30	90	120

- Decide Wiring Space required: 25mm, 35mm or 45mm
- Decided Floor Tile Thickness. (This must align with the lid depth choice)
- Read across to determine the minimum screed depth and subsequent finish floor thickness

Note: When using the wave plate (CXPC20215 / CXPC20215) or ST fibre plate (CXPC20500 / CXPC20500) the minimum screed depth and minimum finished floor depth must be increased by 15mm. This will result in restrictions when utilising a 45mm wiring space.

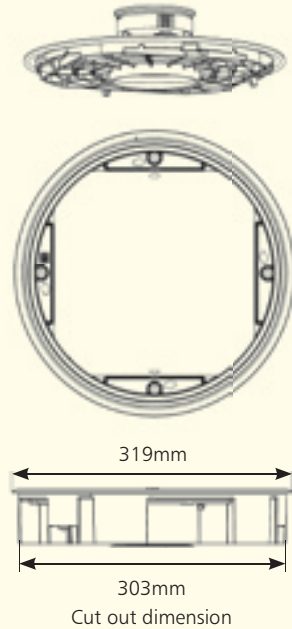


* The Snorkel cord outlet cannot be used in depths less than 100mm.

Onix Plus™ Floorboxes and Power Grommets

Round Aluminium Floorbox Dimensions

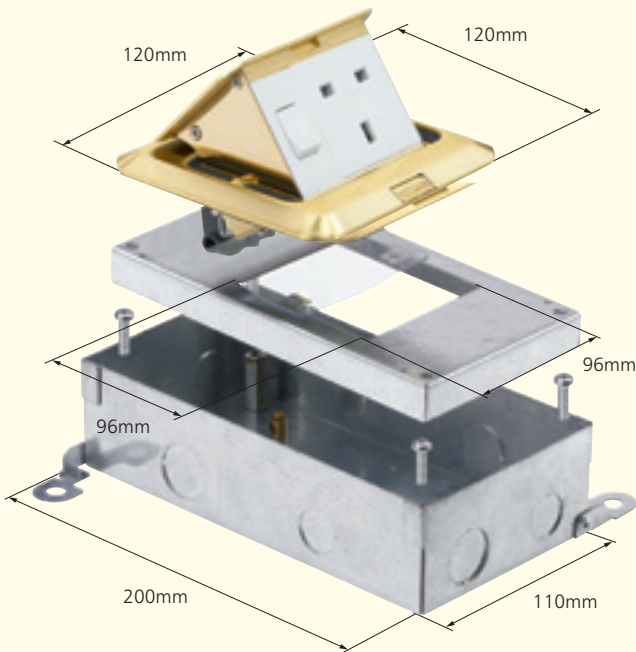
This floorbox must be used in conjunction with the 370x370mm Onix Base Unit, 3 compartment (NXB370XUK-3)



Metal Power Grommet Dimensions

The Metal Power Grommet is designed to be used in conjunction with the Screed Base Unit, part number NXGB100-1 or NXGB100X-1, depending on the depth of the screed.

Onix Grommets are designed to be IP44 rated when the lid is closed, allowing the floor to be washed.



BASE UNIT	NXGB100-1	NXGB100X-1
Screed Depth (mm)	55-80mm	80-110mm

Load Testing

Load Testing of Floorboxes to draft pr EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of draft pr EN50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

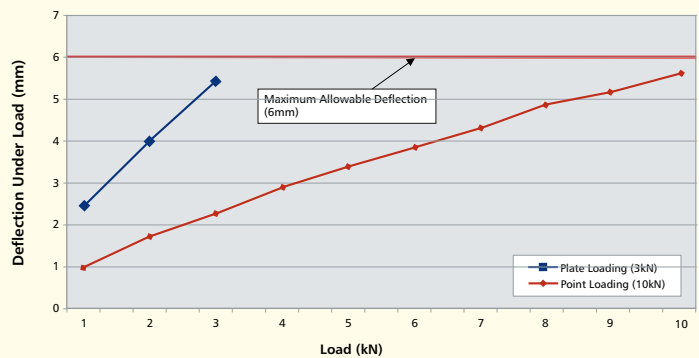
There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm. The loading position is the centre of the lid.

The Lid Deflection (loading) graph shows that the maximum test wheel loading classification achieved is 3kN and the maximum large plate loading classification achieved is 10kN.

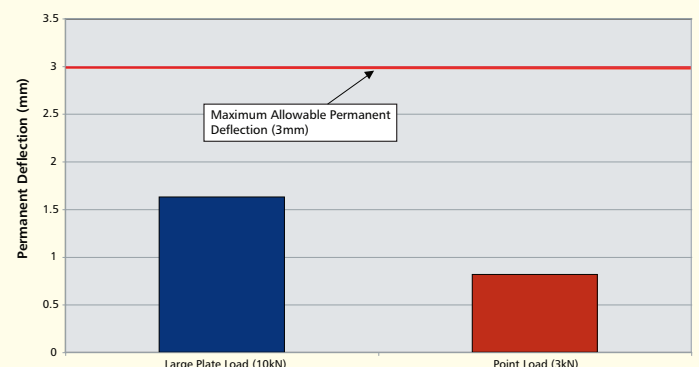
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.8mm and large plate loading at 10kN is 1.65mm. This is well within the maximum allowable deflection of 3.0mm.

Note: This test data specifically refers to the 265x265mm sized cord outlet box assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

Lid Deflection - Onix Plus Cord Outlet Lid 265x265mm



Permanent Deflection After Removal of Load - Onix Plus 265x265mm Cord Cap Lid



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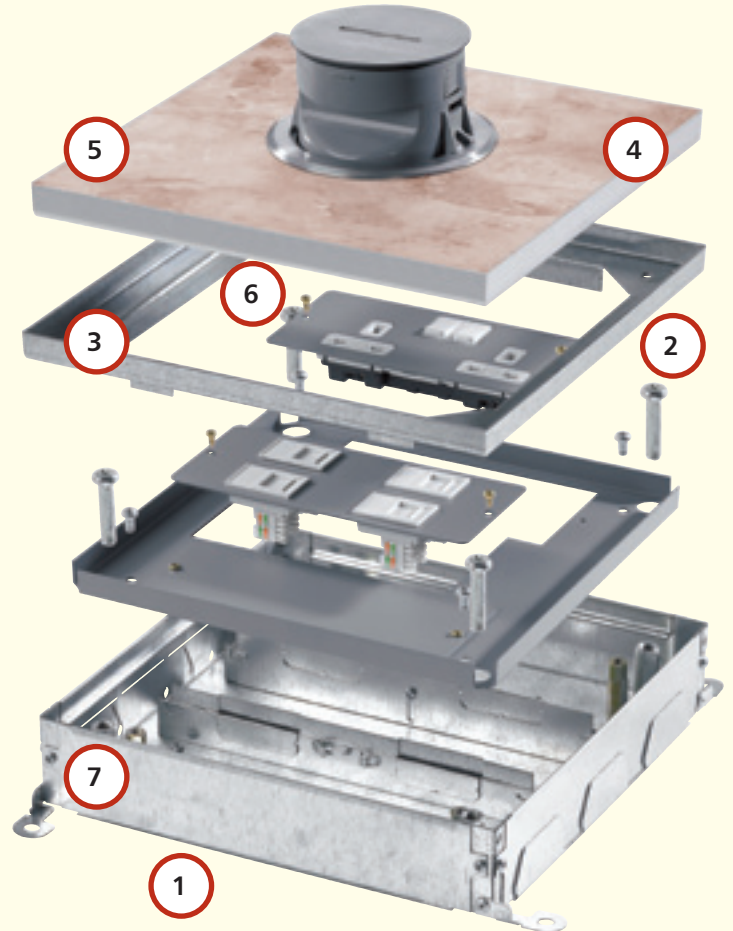
screeded floor systems

Onix Plus™ Floorboxes and Power Grommets

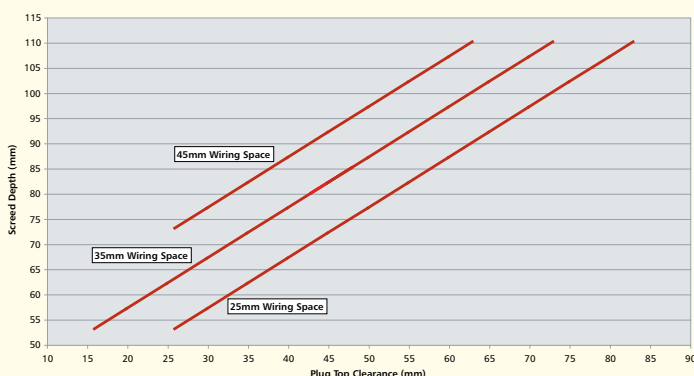
Full installation instructions are supplied with the product. Full details of the Onix Plus System can be found on page 49.

Installation of Snorkel Lid and Round Aluminium Floorbox

- ① The base unit is fixed to the slab and the ducts or conduits are fed into the base using the appropriate side entry plate.
- ② The disposable screed cover is fitted to prevent the ingress of screed through the top. All areas of the box which may be susceptible to screed ingress should be sealed.
- ③ The Lid frame should be assembled and fitted after the disposable screed lid has been removed and the gasket can now be fitted.
- ④ The lid is supplied with an earth lead and must be bonded to earth for all power applications. As the lid is only installed when the floor covering is laid there is less chance the surface finish of the lid will be damaged.
- ⑤ A floor covering insert is required for the lid recess. The dimensions for the insert are given in the Lid Recess Dimensions section see page 99.
- ⑥ Sealing compounds are required for products that are for use in wet wash environments.
- ⑦ The bases are supplied with 35mm wiring space, but with the option to reduce to 25mm or increase to 45mm with the Cuba-1 or Cuba-2 height adjustment kit.



Screed Depth – 25mm, 35mm and 45mm Wiring Space



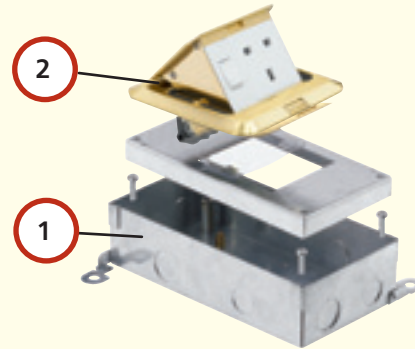
Cat 6 Compatibility

With the introduction of Cat 6 data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer's recommendations to prevent transmission losses. As a result MK has introduced 45mm wiring space for the Cablelink Plus Floorbox systems (as well as for the Prestige 3D wall trunking system). This easily accommodates the longer Cat 6 data outlets and leaves sufficient space for the data cable to run underneath it.

Onix Plus™ Floorboxes and Power Grommets

Installation of Metal Power Grommets

- 1 The Screed Base Unit, is laid onto the concrete slab. There are two Screed Bases available depending on the screed depth.
Screed depth between 55mm and 80mm use NXGB100-1.
Screed depth between 80mm and 110mm use NXGB100X-1.
A metal plate supplied with the Screed Base Unit to keep the screed out of the interior of the box.
After screeding the mounting plate is fitted and the floor covering is laid.
- 2 The grommet top is installed after the floor covering is laid. The lid is simply screwed into position until tight with the floor.



Cablelink Plus Screed System

Cablelink Plus Screed System provides adaptable power and data distribution highways in screeded floors.

- Tested to EN50085-2-2 to accept 5000N load
- The system incorporates numerous design features to ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Suitable for screeded depth from 53mm to 110mm
- Floorboxes are IP2X rated in accordance with BS EN50085-1
- Choice of 1, 2, 3 or 4 compartment floorboxes
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- PVCu ducting manufactured from 100% recycled material
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

Top tips

- Distance between two junction boxes must not exceed 6 metres
- Carpets – use those with backing at least 2mm thick
- Service Outlet Boxes – fixed only on branch ducts and not on header ducts. Fixing service boxes on the header ducts affects cable capacity and constricts the header
- Workstations – locate over Service Outlet Boxes so that it does not interfere with normal office traffic

Layout

In order that the installation may exhibit the desired flexibility, the ducting is usually laid out on either a Grid, Fishbone or a Comb Pattern of single, double or triple runs.

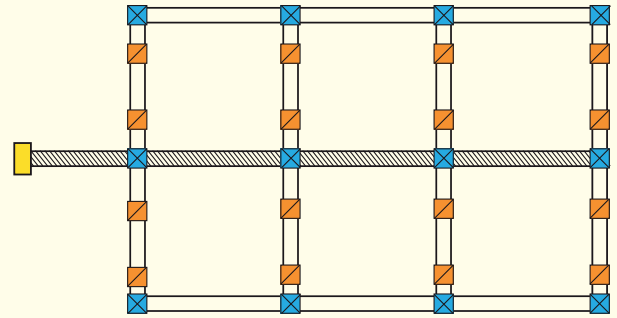
A **Grid Pattern** is widely used in areas where the occupants require the highest degree of flexibility in reorganising work areas. Capacity can be increased by returning individual ring mains through different runs of duct which in itself allows easier installation.

The **Fishbone Pattern** is ideal for a medium sized area where lesser boxes are required.

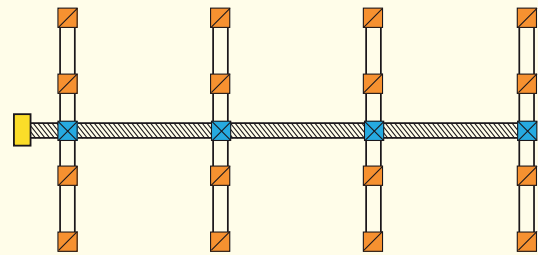
The **Comb Pattern** is the most economical way of installation where least duct is used. The comb pattern is suited for medium to small office areas.

Standards

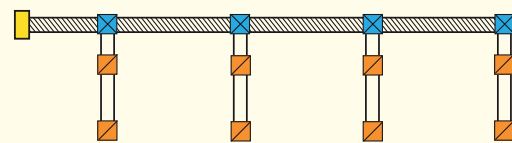
Cablelink Plus Screed System range complies with the relevant requirements of the latest edition of IEE Wiring Regulations (BS 7671) and to BS EN50085 Part 1 and EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23. The metal used complies to the requirements of BS EN10327: 2004.



Grid pattern



Fishbone pattern



Comb pattern

- Header Runs
- Branch Runs
- Service Outlet Box
- Universal Junction Box
- Vertical Access Box

Cablelink Plus Screed System

Cable Capacity Guide

The cable factor table below is based on the 17th Edition of the IEE Wiring Regulations and must be regarded only as a guideline. Care should be taken in selecting adequate trunking sections taking into consideration the number and size of cables involved and construction of the junction box. It is recommended that the initial design of trunking installations include adequate provision for future wiring. To determine the size of the trunking required, multiply the quantities of each size of conductor and appropriate factor from Table A and compare the total with the capacity unit figure in the appropriate Table B.

Table A - Cable Factors		
Cable Type	CSA	Cable Factor
Power Cables		
PVC Stranded	1.5mm ²	8.6
	2.5mm ²	12.6
	4mm ²	16.6
	6mm ²	21.2
	10mm ²	35.3
	16mm ²	47.8
Twin & Earth	2.5mm ²	86
	4mm ²	99
	6mm ²	148
Data Cables		
Cat 5E UTP	5.5mm dia	30.2
Cat 5E STP	6.0mm dia	36
Cat 6 UTP	6.5mm dia	42.2
Cat 6 STP	7.0mm dia	49

Sample calculation

To estimate the total number of cables that can be accommodated with a 100 x 38mm ducting:

Step 1 Pick the factor from Table B corresponding to 100 x 38 = 1563

Step 2 Select the size of the cable that needs to be pulled through the trunking and its corresponding factor from Table A
e.g. 4mm² stranded = 16.6

Step 3 No. of cables = Value from (Table B / Table A)
e.g. 1563/16.6 = 94 Nos.

Top tips

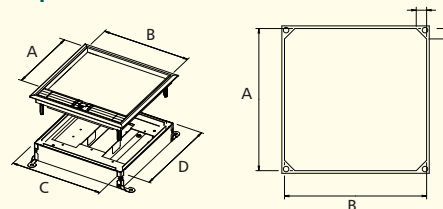
- The number and location of boxes will depend on the end user requirements
- If the furniture layout is available, a floor box should be considered for each workstation or desk
- If the final furniture layout is not available as a general guide the minimum recommended distribution is one floor box for every 10m², and the maximum being one floor box per 4m²

TABLE B – Metal Screed Ducting Cabling Capacity			
Size (mm)	Compartment size	Capacity 100%	Capacity (45% fill)
100x25	100x25 (1 comp)	2205	992
100x38	100x38 (1 comp)	3474	1563
225x25	112x25 (2 comp)	2501	1125
	75x25 (3 comp)	1658	746
225x38	112x25 (2 comp)	3940	1773
	75x38 (3 comp)	2613	1176
250x25	83x38 (3 comp)	1847	831
250x38	13x38 (3 comp)	2909	1309
275x25	137x25 (2 comp)	3066	1380
	91x25 (3 comp)	2035	916
275x38	91x38 (3 comp)	3206	1443
300x25	100x25 (3 comp)	2223	1000
300x38	100x38 (3 comp)	3503	1576

Cablelink Plus Screed System ducting complies with BS EN50085-1: 2005 and draft EN50085 Part 2-2.

The above table gives the available capacity units on 45% factor, applied to the internal wiring area.

Carpet Cut out Dimensions



The table below shows the sizes required for the carpet lid infill and carpet tile cut out for the Cablelink Plus Screed Floorboxes.

LID LIST NUMBER	CARPET LID INFILL DIMENSIONS (mm)		BASE LIST NUMBER	BOX CARPET CUT OUT DIMENSIONS (mm)	
	A	B		C	D
CXL100	152	93	CUB100	100	100
CXL200	152	185	CUB200	200	200
CXL265	219	251	CUB265	265	265
CXL340	219	326	CUB340	340	340
CUJL200	188	188	CUJ200	200	200
CUJL265	253	253	CUJ265	265	265
CUJL240	328	328	CUJ240	340	340

Where A is from left to right and B is from back to front.

DUCTING CABLE CAPACITY – DATA CABLES					
Nominal Cable	Number of Cables				Bend Radius
Diameter mm ²	60mm Ducting		90mm Ducting		(Static on install)
	@50%	@75%	@50%	@75%	
Cat 5e 5mm	30	45	63	95	20mm + 10mm
Cat 6 6mm	20	30	44	65	25mm + 10mm

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screeded floor systems

Cablelink Plus Screed System

Cablelink Plus Screeded Service Box

- Materials** UL94 V2 rated nylon, Pre-galvanised steel.
- Strength** The floor outlet boxes are capable of resisting minor accidental loading when rigidly supported under the outer rim of the cover frame.
- Fire** The outer casing of the floor outlet box is manufactured from metal and is non-combustible. The 8mm recess frame and lid assembly is made from UL94 V2 rated nylon the 12mm recess frame and lid assembly is manufactured from metal and is non corrosive.
- Chemical resistance** Non corrosive.
- Water absorption** The floor outlet boxes are for use in situations where the cleaning method used does not result in the formation of pools of liquid or soaking of the floor surface.
- Degree of protection** Enclosure classification of IP2X when installed in accordance with the instructions set out in the installation guide.

Ambient Temperature Range

	Minimum	Maximum
Handling and storage	-5°C	60°C
During installation	-5°C	60°C
Operating	-5°C	40°C

Average not to exceed 35°C in any 24 hour period.

RAL Colours

Grey (GRY) = RAL 7011
Light Grey (LGY) = RAL 7046

PVCu Ducting and Accessories:

- Manufacture** Duct straight lengths are extruded from 100% recycled PVCu. Fittings are formed by injection moulding.
- Appearance** All PVCu duct and accessories are normally smooth, matt white finish.
- Strength** Heavy gauge, medium impact resistance under normal conditions.
- Fire** Non flame propagating. Class 1 spread of flame.
- Chemical resistance** Non-corrosive and not affected by sea water. Excellent resistance to mineral acids, alkalis and detergents but liable to attack from solvents such as alcohol, ketones, aromatics and hydrocarbons.
- Vermin** Resistant to vermin and termites.
- Thermal** Lower and upper limit of range of ambient temperature from -25°C to 60°C. All products are designed to accommodate local thermal expansion and fitting instructions cover differential movement at the interface with the building fabric. Thermal expansion co-efficient: $5.5 \times 10^{-5}/^{\circ}\text{C}$.
- Electrical** Duct is non-conductive.
Dielectric strength: 40kV/mm in DBP
17kV/mm in tx oil.
Volume resistivity: $>1014 \Omega\text{cm}$.
- Durability** The product is stable within the terms and conditions described above and will maintain its performance characteristics.
- Workability** The duct is light weight and can be readily cut with hand tools. Short lengths can be readily incorporated and there is low wastage of material. Components and joints can be solvent welded together where necessary.

Metal Duct and Accessories:

- Material** Pre-galvanised sheet steel.
- Standard thickness** 1.2mm. Standard 1mm available on request.
- Standard length** 2.44 metres.
- No. of compartments** 1, 2 or 3 compartments.
- Standard depth** 25mm and 38mm (Different depths are available on request).

Couplers have to be ordered separately.

Pre-cut lengths can be arranged, subject to price confirmation and availability.

Cablelink Plus Screed System

Installation Guide for Underfloor Duct System

The structural floor slabs on which the underfloor ducts and boxes are to be laid must be reasonably level and smooth. Humps and protruding cement must be hacked to level to ensure the ducts being laid will maintain the minimum screed thickness of 25mm over the ducts. It is recommended that a layer of green screed be laid on the structural slab beneath the underfloor ducts to prevent air gaps and vacuum while screeding.

① The floor slab where junction and service outlet boxes are to be laid should be marked out. The appropriate duct entry plates should be fastened to the boxes.

Ducts should be laid in straight lines between points of junction boxes and parallel to known base lines on each floor. Changes in direction of ducts should be made with junction boxes.

Use steel fixing clips to secure the ducts on to the floor slab prior to screeding. The intervals between two saddles should not exceed a maximum of 2 metres.

All joints in ducts and terminations of ducts in junction boxes / vertical access boxes should be made water tight with approved type sealing compound. Precaution should be exercised during construction to prevent damage to the ducts system and to ensure that the ducts and vertical boxes are free of water, dirt, debris or any other obstruction which may impede and / or damage the cables during pulling in.

② Junction and service outlet boxes should be properly covered with the disposable lids and taped to ensure no cement gets into the boxes during screeding.

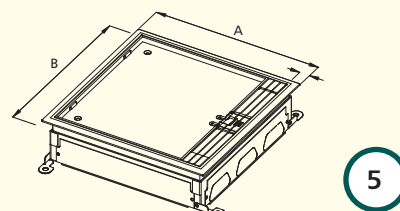
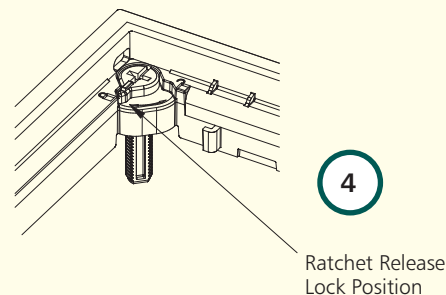
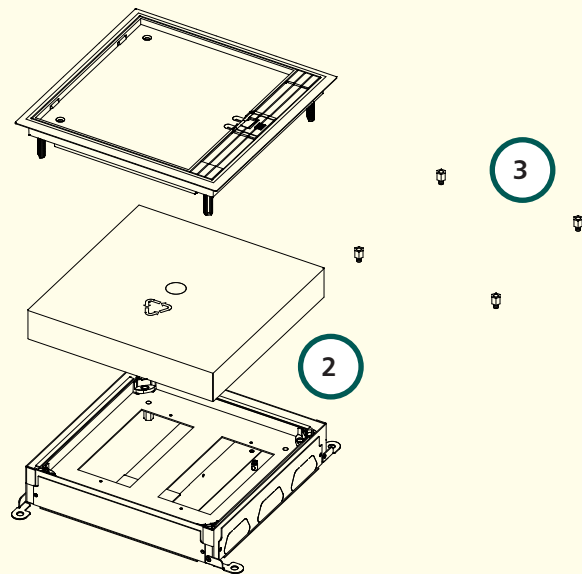
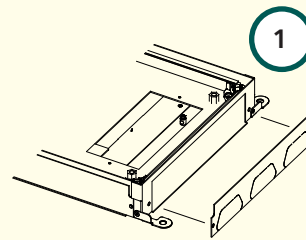
After screeding the disposable screed cover is removed and the cable installation can begin.

③ If extra space is required under the accessory mounting tray then height adjuster kits can be used. The cables can now be installed and the services terminated.

Note: The bases are supplied with 35mm wiring space, with the option to reduce to 25mm or increase to 45mm with a height adjustment kit – part number CUBA-1 or CUBA-2, see page 63

④ The frame and lid assembly can now be fitted. Ensure the ratchet release is set to the lock position and align these with the ratchets in the accessory tray.

⑤ Apply gentle pressure until the frame is securely seated in the box and against the finished floor e.g. carpet or vinyl.



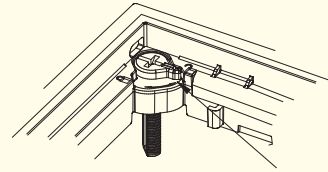
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screeded floor systems

Cablelink Plus Screed System

⑥ If the frame and lid assembly requires to be removed or rotated to ease cable egress then the ratchet releases should be rotated to the unlock position and the frame can be lifted out of the floorbox. The assembly can then be rotated and fixed as before.

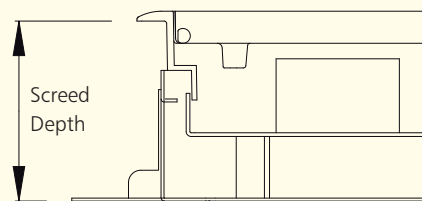
Note: The lid should be completely removed from the frame before attempting to release the frame.



6

Ratchet Release
Unlock Position

⑦ Attention must be paid to ensure there is both sufficient wiring depth and plug top clearance for the particular cables / plugs being used in each installation.

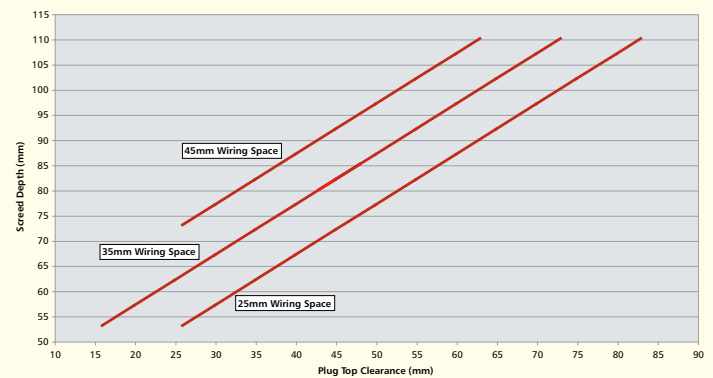


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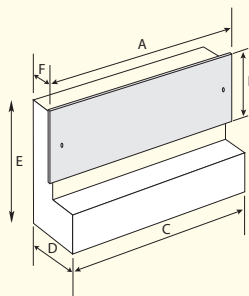
Plug
Clearance
Wiring
Space

Screed Depth – 25mm, 35mm and 45mm Wiring Space

This graph enables the specifier / installer to determine which depth the screed (plus floor covering) must be in order to achieve a certain accessory wiring space and plug top clearance within the floorbox. For example if the specifier requires a 35mm standard wiring depth and a 45mm plug top clearance then the graph shows that an 82mm screed (plus floor covering) depth is required. Alternatively, if the depth is fixed, at 90mm for example, then by having a 45mm wiring space the resulting plug top clearance will be 43mm. If additional plug top clearance is required then the wiring depth can be reduced to 35mm or even 25mm providing a plug top clearance of 53mm or 63mm respectively. Care must be taken to ensure there is sufficient wiring depth and plug top clearance for each individual installation.



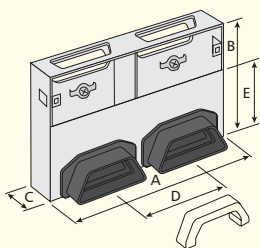
Vertical Access Boxes: Metal Ducting



List Number	To Suit Box	Cover Plate Dims	
		A (mm)	B (mm)
Flush Cover Plate (supplied a standard)			
n/a	CUV265	265	90
n/a	CUV340	340	90
Overlapping Cover Plate			
CUVP265	CUV265	285	100
CUVP340	CUV340	360	100

List Number	Box Dimensions (mm)			
	C	D	E	F
CUV265	265	85	50	200
CUV340	340	85	50	200

Vertical Access Boxes: PVC Ducting



List Number	Type	Dimensions in mm				
		A	B	C	D	E
Shallow						
SF88152	Twin	260	170	50	110	100
SF88153	Triple	370	170	50	110	100
Full Access						
SF88172	Twin	260	270	50	110	100
SF88173	Triple	370	270	50	110	100

Cover Plates

List Number	Type	Dimensions in mm		List Number	Type	Dimensions in mm	
		A	B			A	B
Overlapping Shallow				Flush Shallow			
SF88180	Twin	280	80	SF88176	Twin	260	70
SF88181	Triple	390	80	SF88177	Triple	370	70
Overlapping Full Access				Flush Full Access			
SF88188	Twin	280	180	SF88184	Twin	260	170
SF88189	Triple	390	180	SF88185	Triple	370	170

Cablelink Plus Screed System

Load Testing

Load Testing of Floorboxes to EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of EN50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

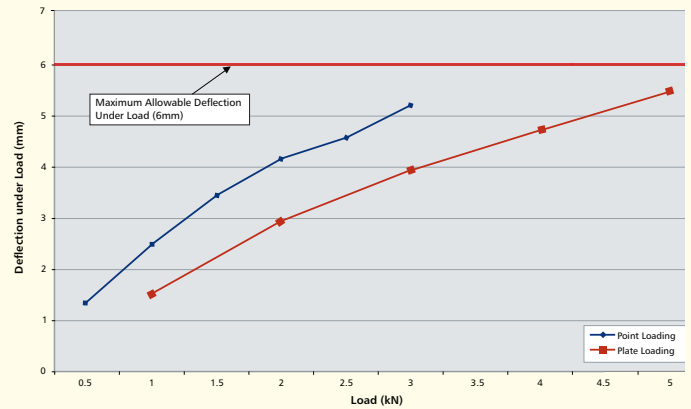
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 2kN is 0.3mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm.

Note: This test data specifically refers to the 265x265mm sized floorbox frame assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

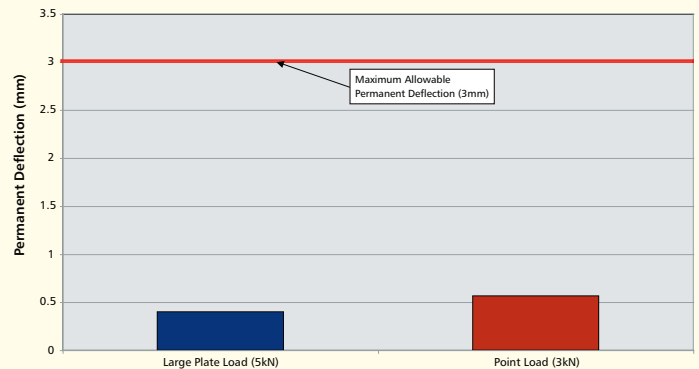
Cat 6 Compatibility

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Lid Deflection – Cablelink Plus 265x265mm Frame Assembly

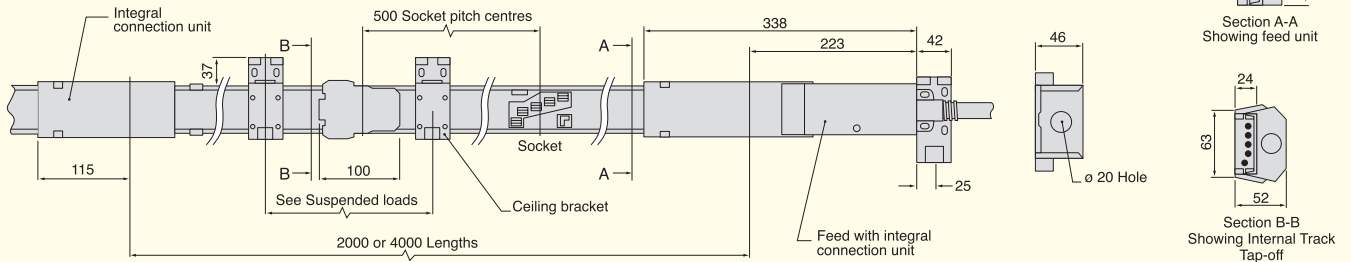


Permanent Deflection After Removal of Load – Cablelink Plus 265x265mm Frame



Interact Overhead Power

Dimensions



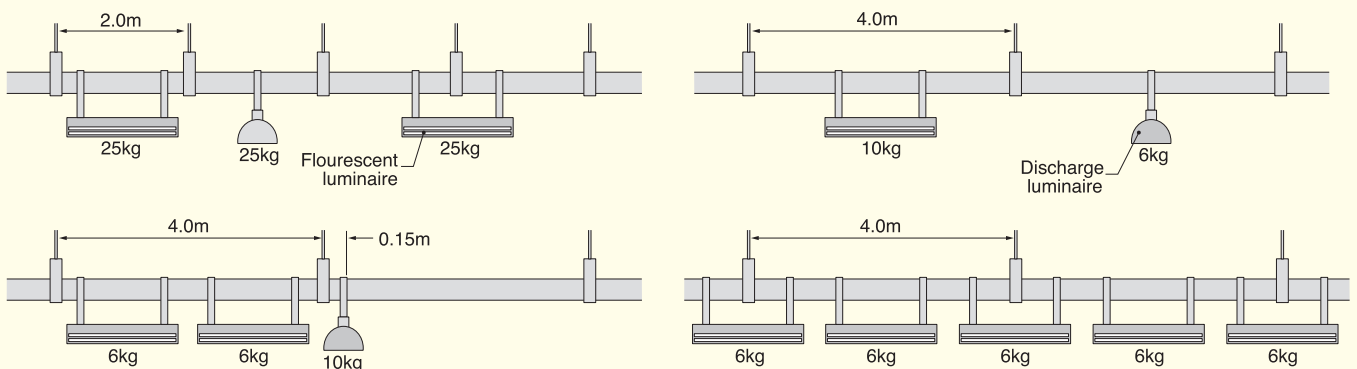
Suspended Loads

The load that can be suspended from the overhead powertrack is dependent on the distance between the supports. Loads should be evenly distributed between hanging brackets. The maximum deflection should not be greater than 1/300.

The spacing between the powertrack ceiling brackets should not exceed 4 metres. The guidelines below should be followed when deciding on the number of ceiling brackets required.

The rods should be of suitable size to carry the combined weight of the track plus the suspended load.

Joints between two lengths of track should be no greater than 500mm from a hanging bracket.



NB. These values are for edge mounted track only. Flat mounted track should not be used for load suspension.

40A POWER TRACK WEIGHT				
Length m	Number of copper conductors			
	2+PE	3+PE	4+PE	5+PE (& Dual Grey)
2	3.1 Kg	3.36 Kg	3.61 Kg	3.87 Kg
4	5.72 Kg	6.22 Kg	6.73 Kg	7.23 Kg

Interact Overhead Power

Technical Specification

Overhead 40A –

Manufactured within ISO 9000 environment.

Electrical Characteristics

	Overhead	
Rated Current	40	A
Rated Voltage	480	V
Frequency	50/60	Hz
Conditional Short Circuit Rating	16	kA
Resistance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
Impedance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
Volt Drops (Full load, concentrated at one end)		
Powertrack (Line + Neutral)	2.9	mV/A/m
Feed Unit	0.3	mV/A
Tap-off Connection	1.6	mV/A
+ 2.5mm ² Cable	18	mV/A/m
Joint	0.3	mV/A
Flexible Interlink Unit	0.8	mV/A
+ 6mm ² Cable	7.0	mV/A/m

Mechanical Data

Max. No. of Copper Conductors	5	
Conductor Cross Section Area Nominal	14.4	mm ²
Powertrack Casing Copper Equivalent (Where Casing is Protective Earth)	12.0	mm ²
Cable Termination Capacity	10	mm ²
Tap-off Cable	2.5	mm ²
Flexible Interlink Cable	6	mm ²
Flexible Interlink Conduit	25	Ømm
Feed Conduit Entry	20	Ømm
IP Rating	2X	

Materials Specification

Powertrack Casing, Feeds and Brackets	Galvanised Steel
Conductors	High Conductivity Copper
Powertrack Insulators	40A Polyamide and Polyester
Sockets/Tap-off Plug/Joint Mouldings	Modified PPO
Shutter	Polyacetal
Interlink Flexible Conduit	Galvanised Steel
Tap-off Cable	Multi-core Cable to BS 6500 and BS 7211. LSF Cable standard, PVC Cable available on request
Tap-off Pins	
– Line, Neutral & Copper Earth	Copper and Phosphorous Bronze, tin plated
– Casing Earth	Brass, tin plated
Flexible Interlink Cable	Tri-Rated to BS 6231

Honeywell's Commitment to Health, Safety and the Environment

By integrating health, safety and environmental considerations into all aspects of our business, we protect our employees, our communities and the environment, achieve sustainable growth and accelerated productivity, drive compliance with all applicable regulations and develop technologies that expand the sustainable capacity of our world. Our health, safety and environmental management systems reflect our values and help us meet our business objectives.

- We protect the safety and health of our employees, and minimise the environmental footprint of our operations through efforts to prevent illness, injury and pollution.
- We actively promote and develop opportunities for expanding sustainable capacity by increasing fuel efficiency, improving security and safety, and reducing emissions of harmful pollutants.
- We are committed to compliance with all of our health, safety, environmental and legal requirements everywhere we operate.
- Our commitment to health, safety and the environment is an integral aspect of our design of products, processes and services, and of the lifecycle management of our products.
- Our management systems apply a global standard that provides protection of both human health and the environment during normal and emergency situations.
- We identify, control and endeavor to reduce emissions, waste and inefficient use of resources and energy.
- We are open with stakeholders and work within our communities to advance laws, regulation and practices that safeguard the public.
- We abide by the company's own strict standards in cases where local laws are less stringent.
- Our senior leadership and individual employees are accountable for their role in meeting our commitments.
- We measure and periodically review our progress and strive for continuous improvement.

These are our commitments to health, safety, and the environment, and to creating Sustainable Opportunity everywhere we operate.

Specification Guide Product Range Finder

Range	Product Pages	Technical Data
Raised Floor Systems		
Interact Underfloor Power	9-16	79-80
NEW Cablelink Plus Modular	17-21	81-84
NEW Cablelink Plus Single Pan Box	23-26	85-86
Slab Boxes	27-30	
Grommets	31-34	87
DeskPod™	35-41	88
Spider	43-48	89-90
Screeded Floor Systems		
NEW Onix Plus™	49-58	91-94
NEW Cablelink Plus Screed System	59-70	95-100
Overhead Systems		
Interact Overhead Power	77-75	101-102
Hangmann	76-78	

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