UNDER-DESK SOLUTIONS
PRODUCT GUIDE

POWERED BY SPECIALISTS

ELECTRAK®

Global strength

built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development.

With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

CORPORATE SOCIAL RESPONSIBILITY

Legrand's CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly asserts Legrand's ongoing commitment to sustainable development.

LEGRAND'S POWER DISTRIBUTION BUSINESS UNIT

Legrand's power distribution business unit is the home of Electrak, a leading name in power distribution and lighting control solutions.

Electrak powertrack systems, floor boxes, grommets, desk modules and lighting control ranges are installed in high specification offices around the world.

Respect human rights and communities
Ensure health, safety and well-being
Develop skills
Promote equal opportunity and diversity

PEOPLE

CSR

BUSINESS ECOSYSTEM

ENVIRONMENT

Mitigate climate change
Innovate for the circular economy
Prevent pollution

Provide sustainable solutions
Ensure sustainable procurement
Act ethically

The next GENERATION
of power distribution

Available in standard and clean earth versions, with fixed or rotatable socket options and a safe shuttered electrical connection, Intersoc is the next generation of power distribution...

- Simple push-fit, module connection with auto-lock mechanism creates robust joints and makes installation quicker and easier

- 32 A system with safe shuttered electrical connections for additional safety, meets the requirements of BS 7671 (including section 543.7)

- MCB, RCD and RCBO modules, with reversible hinged covers, provide a full range of circuit protection options. RCD modules are available in AC and A Class

- 2, 3 or 4 gang British standard socket modules with fixed or rotatable, fused or unfused (BS 6396) sockets options - all the options you need to meet the requirements of any installation

- Outgoing connections: flexible interlink or end cap with ST or GST options. Please consult us for other options

NEW N
Intermod international power and data modules can now be added to under-desk distribution
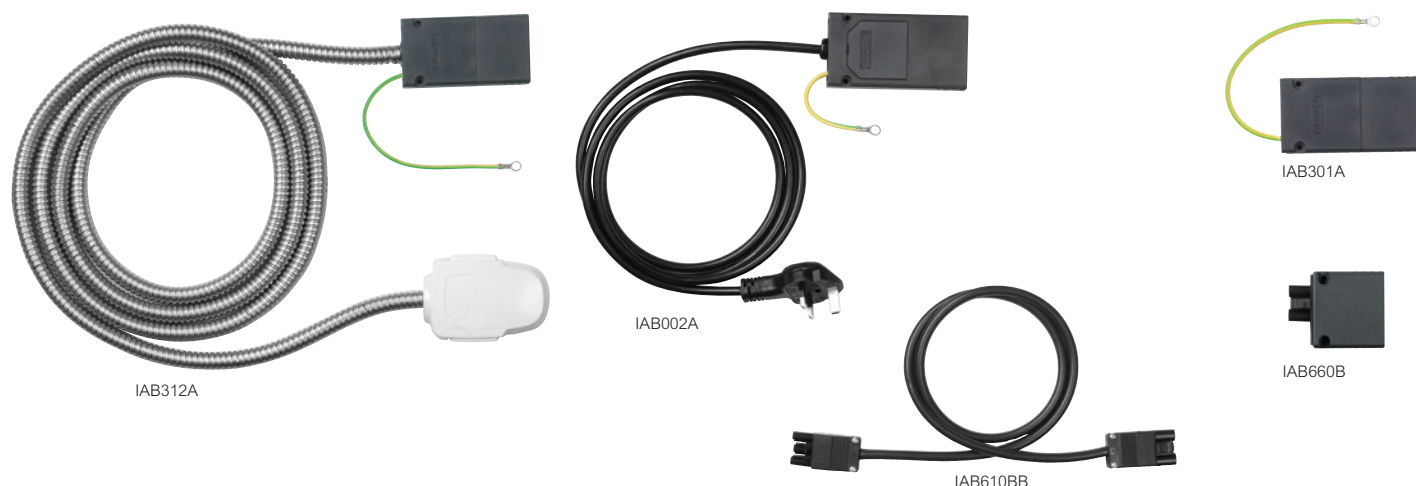
Intersoc-R™ desk modules

electrical supply

IAB301A

IAB312A

IAB002A

IAB660B

IAB610BB

⌂ Dimensions and technical information **p. 7, 10-11**

Intersoc-R features fast modular connection with push-fit auto lock mechanism, safe shuttered electrical connections and a robustly designed rigid joint between modules. Available in standard and clean earth versions
Independently approved by Intertek. Complies with BS 5733 and the relevant parts of BS 1363 part 2. Manufactured in an approved ISO 9001 facility. Meets the requirements of BS 7671 for high integrity earthing (section 543·7)

Pack	Cat. Nos.	32 A pre-wired feed modules
		Standard earth tap-offs (E24 - White tap-off)
1	IAB311A	3 m unfused metal tap-off Cat. No. DP1332
1	IAB312A	5 m unfused metal tap-off Cat. No. DP1532
1	IAB315A	3 m 13 A fused 543·7 metal tap-off Cat. No. DP1327
1	IAB316A	5 m 13 A fused 543·7 metal tap-off Cat. No. DP1527
		Low noise / clean earth tap-offs (E25 - Green tap-off)
1	IAC311A	3 m unfused metal tap-off Cat. No. JP2332
1	IAC312A	5 m unfused metal tap-off Cat. No. JP2532
1	IAC315A	3 m 13 A fused 543·7 metal tap-off Cat. No. JP2327
1	IAC316A	5 m 13 A fused 543·7 metal tap-off Cat. No. JP2527
		Auxiliary earth tap-offs (E28 - Red tap-off)
1	IAF311A	3 m unfused metal tap-off Cat. No. YP5332
1	IAF312A	5 m unfused metal tap-off Cat. No. YP5532
1	IAF315A	3 m 13 A fused 543·7 metal tap-off Cat. No. YP5327
1	IAF316A	5 m 13 A fused 543·7 metal tap-off Cat. No. YP5527
		32 A re-wirable feed modules
1	IAB301A	Standard earth (for flexible conduit)
1	IAC301A	Low noise (for flexible conduit)
		32 A feed units with in-built Neutrik connectors
1	IAB301E	Standard earth
1	IAC301E	Low noise
		32 A tap-offs pre-wired to Neutrik connectors (NAC3 - 2FC)
		Standard earth tap-offs (E24)
1	IAB311E	3 m unfused metal tap-off Cat. No. DP1332
1	IAB312E	5 m unfused metal tap-off Cat. No. DP1532
1	IAB315E	3 m 13 A fused 543·7 metal tap-off Cat. No. DP1327
1	IAB316E	5 m 13 A fused 543·7 metal tap-off Cat. No. DP1527
		Low noise / clean earth tap-offs (E25)
1	IAC311E	3 m unfused metal tap-off Cat. No. JP2332
1	IAC312E	5 m unfused metal tap-off Cat. No. JP2532
1	IAC315E	3 m 13 A fused 543·7 metal tap-off Cat. No. JP2327
1	IAC316E	5 m 13 A fused 543·7 metal tap-off Cat. No. JP2527

Pack	Cat. Nos.	16 A feed modules pre-wired to 13 A fused plug
1	IAB002A	With 2 m 1·5 mm² cable
1	IAB003A	With 3 m 1·5 mm² cable
1	IAB005A	With 5 m 1·5 mm² cable
		16 A rewirable feed modules
1	IAB201A	Rewirable feed module (for cable)
		16 A feed units with in-built GST connector
1	IAB660B	Compact feed module with male GST connector
1	IAB201B	Feed module with male GST and earth bond lead
		16 A pre-wired connection leads
		13 A fused plug pre-wired to GST connector
1	IAB002B	With 2 m 1·5 mm² cable
1	IAB003B	With 3 m 1·5 mm² cable
1	IAB005B	With 5 m 1·5 mm² cable
		GST to GST connection leads
1	IAB610BB	1 m length
1	IAB620BB	2 m length
1	IAB630BB	3 m length

⌂ For details of Dynamic Monitor Arms **contact us on +44 (0) 370 608 9020 or visit www.legrand.co.uk**

Intersoc-R™ desk modules

protection, BS sockets, end caps and interlinks

IAC502R

IAB402A

IAZ001A

IAB703A

IAB533F

IAB450A

IAB600B

IAB504R

IAB610B

Dimensions and technical information **p. 7, 10-11**

The BS version is available with fixed or rotatable sockets. Individually fused sockets are available to meet the requirements of
BS 6396 + A1 (5 x 20 mm anti-surge ceramic fuses)
A wide range of interconnection solutions are available. When 16 A cabling interconnection is used with 32 A under-desk solutions, suitable de-rating protection devices must be incorporated to protect the cables
All protection and switching modules, end caps and interlinks are universally compatible with standard and clean earth / low noise systems

Pack	Cat. Nos.	**Protection and switching modules**
1	IAB401A	With 13 A fuse
1	IAB402A	With 13 A fuse and sw/neon
1	IAB403A	With 13 A fuse and neon
1	IAB404A	32 A max. single isolation module
1	IAB405A[1]	With 30 mA RCD
1	IAB408A	With neon indicator
1	IAB420A	With 16 A MCB
1	IAB430A	With 20 A MCB
1	IAB440A	With 32 A MCB
1	IAB450A[1]	With 16 A 30 mA RCBO
1	IAB460A[1]	With 20 A 30 mA RCBO
1	IAB470A[1]	With 32 A 30 mA RCBO

Pack	Cat. Nos.	**Socket modules – standard (grey sockets)**
		2 gang unfused
1	IAB502F	Fixed sockets
1	IAB502R	Rotatable sockets
		2 gang individually fused
1	IAB532F	3·15 A – fixed sockets
1	IAB532R	3·15 A – rotatable sockets
		3 gang unfused
1	IAB503F	Fixed sockets
1	IAB503R	Rotatable sockets
		3 gang individually fused
1	IAB533F	3·15 A – fixed sockets
1	IAB533R	3·15 A – rotatable sockets
		4 gang unfused
1	IAB504F	Fixed sockets
1	IAB504R	Rotatable sockets
		4 gang individually fused
1	IAB534F	3·15 A – fixed sockets
1	IAB534R	3·15 A – rotatable sockets

Pack	Cat. Nos.	**Socket modules – low noise / clean earth (green sockets)**
		2 gang unfused
1	IAC502F	Fixed sockets
1	IAC502R	Rotatable sockets
		2 gang individually fused
1	IAC532F	3·15 A – fixed sockets
1	IAC532R	3·15 A – rotatable sockets

1 : To order Type A RCD sockets add A suffix to the Cat. No., i.e.
IAB405AA

Pack	Cat. Nos.	**Socket modules – low noise / clean earth (green sockets) (continued)**
		3 gang unfused
1	IAC503F	Fixed sockets
1	IAC503R	Rotatable sockets
		3 gang individually fused
1	IAC533F	3·15 A – fixed sockets
1	IAC533R	3·15 A – rotatable sockets
		4 gang unfused
1	IAC504F	Fixed sockets
1	IAC504R	Rotatable sockets
		4 gang individually fused
1	IAC534F	3·15 A – fixed sockets
1	IAC534R	3·15 A – rotatable

Pack	Cat. Nos.	**End cap**
1	IAZ001A	Blank end cap

Pack	Cat. Nos.	**Intersoc to Intersoc pre-wired interconnection**
		16 A
1	IAB603A	0·3 m length
1	IAB605A	0·5 m length
1	IAB610A	1 m length
1	IAB620A	2 m length
1	IAB630A	3 m length
1	IAB650A	5 m length
		32 A
1	IAB703A	0·3 m length
1	IAB705A	0·5 m length
1	IAB710A	1 m length
1	IAB720A	2 m length
1	IAB730A	3 m length
1	IAB750A	5 m length

Pack	Cat. Nos.	**Power out end caps 16 A**
		Without flex
1	IAB600B	End cap with female GST connector
1	IAB600C	End cap with female ST connector
		With flex to female GST connector
1	IAB610B	1 m length
1	IAB620B	2 m length
1	IAB630B	3 m length

Intersoc-R™ desk modules

protection, non-BS sockets, end caps and interlinks
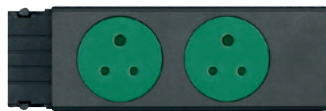
IAC5P2F

IAB5P4F

IAB5N3F

N
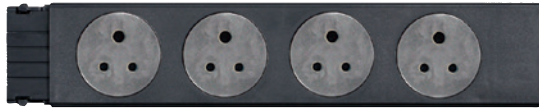
Dimensions and technical information **opposite**

The Intersoc-R 32 A under-desk range is a complete modular power system
Intersoc-R offers a wide range of international socket options
The Intersoc modular system features safe shuttered electrical
connections and a robustly designed rigid joint between modules
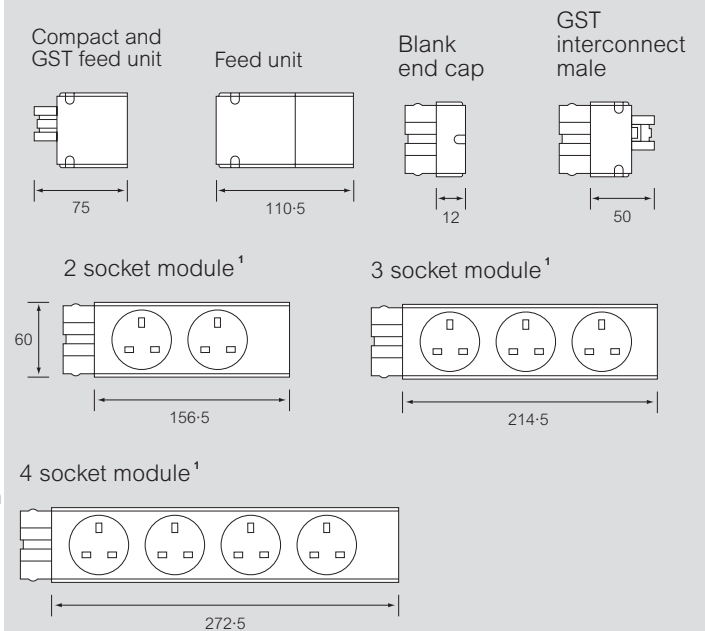All modules connect with single push-fit action and auto lock

Pack	Cat. Nos.	**6 A Indian socket modules**
		2 gang fixed 90° – IS 1293
1	IAB5P2F	Grey – 2 P + E
1	N IAC5P2F	Green – 2 P + CE
1	N IAF5P2F	Red – 2 P + E
		3 gang fixed 90° – IS 1293
1	IAB5P3F	Grey – 2 P + E
1	IAC5P3F	Green – 2 P + CE
1	N IAF5P3F	Red – 2 P + E
		4 gang fixed 90° – IS 1293
1	IAB5P4F	Grey – 2 P + E
1	IAC5P4F	Green – 2 P + CE
1	N IAF5P4F	Red – 2 P + E

Pack	Cat. Nos.	**16 A Schuko socket modules**
		2 gang fixed 90°
1	N IAB5N2F	Grey – 2 P + E
1	N IAF5N2F	Red – 2 P + E
		3 gang fixed 90°
1	N IAB5N3F	Grey – 2 P + E
1	N IAF5N3F	Red – 2 P + E
		4 gang fixed 90°
1	N IAB5N4F	Grey – 2 P + E
1	N IAF5N4F	Red – 2 P + E

Intersoc-R™ desk modules

technical information

■ **Under-desk BS and Indian socket modules only dimensions (mm)**

Compact and GST feed unit
75

Feed unit
110·5

Blank end cap
12

GST interconnect male
50

2 socket module[1]
60
156·5

3 socket module[1]
214·5

4 socket module[1]
272·5

Fixed – end view
32
60

Rotatable – end view
37·9
60
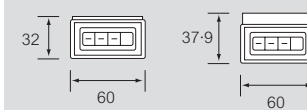
■ **Under-desk Schuko socket modules only dimensions (mm)**

4 socket modules
297·5
60
58
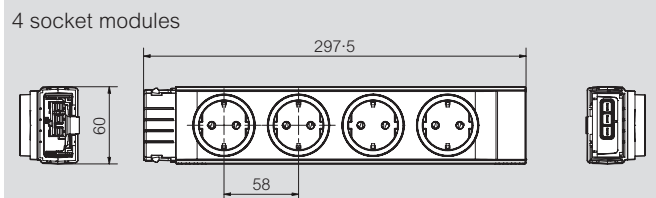
■ **Accessories**

MCB, RCD protection module[1]
60
174·5
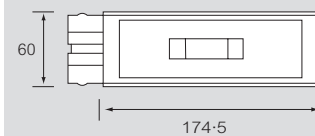
1 : 84·5 mm depth

Protection module
60
115·5

Interconnection
50
77·5

All dimensions (mm) are nominal

7
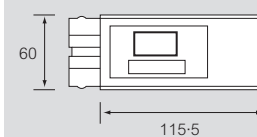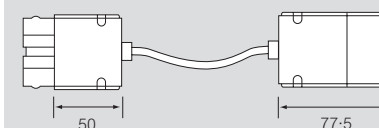
The next
NEW GENERATION
of power distribution continues

N

POWER ONLY
Power sockets for all countries available

MIXED POWER
Mix of power sockets available

MIX POWER & DATA
Mix different power and data modules to suit any application

DATA & NON-POWER
Specify a non-power module with exact requirements

Ask us about our wide range of office and home working solutions including underfloor powertrack, floor boxes, grommets, monitor arms and on-desk modules.

For more information contact us on
+44 (0) 370 608 9020
or visit www.legrand.co.uk

Intermod is the natural extension of the trusted, market leading Intersoc under-desk solution.

Intermod enables international sockets and data to be added to Intersoc installations, including retro-fitting, or can be standalone. Intermod uses Legrand Arteor™ 22·5 x 45 mm and 45 x 45 mm modules (see Wiring Accessories catalogue), and is supplied preassembled from the factory ready to install on-site.

For details of Arteor™ modules contact us on
+44 (0) 370 608 9020 or go to
www.legrand.co.uk

- Intermod can be installed with Intersoc or connected directly to the feed module
- Simply plug into Intersoc modules. Note: for data modules this must be the last module in the chain
- Intermod can be supplied either as power only, power and data, or data only
- Power only – power sockets available for all countries and can be a combination of modules
- Power sockets are fed from solid copper busbars with maintenance free connections
- Data is separated from power with a mechanical barrier
- Special orders can be supplied with empty data compartments for on-site configuration
- Tough, impact resistant ABS housing ensures a long, durable life

Intermod under-desk modules

N

IPP403

IPP408

IPP405

IPP452

Intermod complies with the relevant parts of BS 5733, and BS 1363 Part 2, where appropriate
Manufactured in an approved ISO 9001 facility in the UK. Intermod is a new system which is fully compatible with Intersoc. The two systems can be mixed to provide almost limitless combinations of power and data
When Intermod is being used without Intersoc socket modules, select the feed, protection, and accessories from the Intersoc range
Modules with data must always be fitted as the last module in the Intersoc/Intermod daisy chain
Intermod can be manufactured with different combinations of power and data. For details contact us on +44 (0) 370 608 9020

| Pack	Cat. Nos.	**Intermod 4 module standard units**
		Standard power only versions
1	IPP401	4 x Schuko sockets - shuttered
1	IPP402	4 x Swiss sockets - shuttered, child safety
1	IPP403	4 x Chinese sockets - shuttered, child safety
1	IPP404	4 x Australian sockets - shuttered, child safety
1	IPP405	4 x French sockets - shuttered, child safety
1	IPP406	4 x Israeli sockets - shuttered, child safety
1	IPP407	4 x S. African sockets - shuttered, child safety
1	IPP408	4 x American sockets[1]
1	IPP409	4 x Indian sockets
1	IPP410	4 x Universal sockets[2]
		Standard mixed power only versions
1	IPP450	2 x BS and 2 x Schuko sockets
1	IPP451	2 x BS and 2 x French sockets
1	IPP475	2 X BS, 1 x Schuko and 1 x French sockets
1	IPP452	2 x AUS and 2 x Chinese sockets
1	IPP453	2 x AUS and 2 x universal sockets[2]
		Standard mixed power and data versions[3]
1	IMP211D02	2 x BS sockets, 1 x USB charging outlet with 1 x Type A and 1 x Type C 3 A, 2 x RJ45 outlets
1	IMP211D01	2 x BS sockets, 1 x USB charging outlet with 2 x Type A 3 A, 2 x RJ45 outlets
1	IMP211D03	2 x BS sockets, 1 x HDMI outlet, 1 x USB charging outlet with 1 x Type A and 1 Type C 3 A, 1 x RJ45 outlet
1	IMP251D04	1 x BS socket and 1 x Schuko socket, 1 x USB charging outlet with 1 x Type A and 1 x Type C 3 A, 2 x RJ45 outlets
1	IMP251D02	1 x BS socket and 1 x French socket, 1 x USB charging outlet with 1 x Type A and 1 Type C 3 A, 2 x RJ45 outlets
1	IMP210D01[2]	2 x universal sockets, 1 x USB charging outlet with 2 x Type A 3 A, 2 x RJ45 outlets
1	IMP210D02[2]	2 x universal sockets, 1 x USB charging outlet with 1 x Type A and 1 x Type C 3 A, 2 x RJ45 outlets
		Data only version[3]
1	IDD51	2 x USB Types A and C outlets 3 A, 1 x HDMI outlet, 1 x BNC outlet, 1 x BT Sec outlet, 1 x RJ45 outlet

Pack	Cat. Nos.	**Other feed units**
		American versions
		For feed units other than American versions, see p. 5
1	IAB002US	120 V AC with 2 m 1·5 mm² cable with US plug
1	IAB002US	120 V AC with 3 m 1·5 mm² cable with US plug

1 : Must be used with US type feed units Cat. Nos. IAB002US or IAB003US
2 : Not for use in UK and Europe, please consult us for application suitability on +44 (0) 370 608 9020
3 : Modules with data must be fitted as last module on the Intersoc/Intermod daisy chain

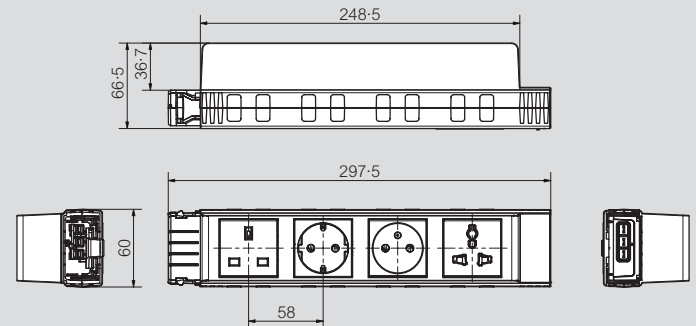■ **Under-desk dimensions (mm) and module options**

Example socket options

For more information on socket and non-power options contact us +44 (0) 370 608 9020
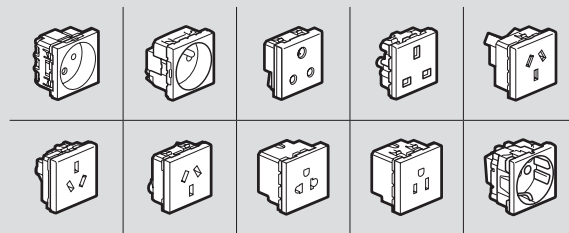
Under-desk dimensions

4 socket module

Complies with BS 5733 and relevant parts of BS 1363-2
Manufactured within an approved ISO 9001 and ISO 14001 facility

Electrical test data	
Rated current	up to 32 A
Rated voltage	250 V ~
Frequency	50 Hz

All dimensions (mm) are nominal

Intersoc-R™ desk modules

technical information

■ Testing and accreditation

Independently approved by Intertek
Complies with BS 5733 and relevant parts of BS 1363-2
Manufactured within an approved ISO 9001 and ISO 14001 facility

Electrical test data

Rated current	up to 32 A
Rated voltage	250 V ~
Frequency	50 Hz

Conductor resistance at 20°C

	Fixed	Rotatable
2 socket module	0·8 mΩ	0·9 mΩ
4 socket module	1·6 mΩ	1·7 mΩ

Volt drop
Live and neutral

2 socket module	1·5 m V/A
4 socket module	3·0 m V/A
Protection module	4·0 m V/A
	(depending on device)
In-feeds :	
16 A	4·0 m V/A
+1·5 mm^2	29 m V/A/m
32 A	2·0 m V/A
+4 mm^2	11 m V/A/m
Interconnections :	
16 A/32 A	2·0 m V/A
+1·5 mm^2	29 m V/A/m
+4 mm^2	11 m V/A/m

Earth fault loop impedance

2 socket module	1·5 mΩ
4 socket module	3·0 mΩ
Protection module	4·0 mΩ
	(depending on device)
In-feeds :	
16 A	2·0 mΩ
+1·5 mm^2	29 mΩ/m
32 A	2·0 mΩ
+4 mm^2	11 mΩ/m
Interconnections :	
16 A/32 A	4·0 m V/A
+1·5 mm^2	29 mΩ/m
+4 mm^2	11 mΩ/m

Mechanical data

Number of conductors	3
Busbar conductor cross-sectional area	5 mm^2
16 A rewirable in-feed terminal capacity	10 mm^2
32 A rewirable in-feed terminal capacity	10 mm^2

■ British Standards

BS 6396 + A1 Electrical Systems in Office Furniture and Educational Furniture Specification

BS 7671 incorporating amendment No. 3. Requirements for Electrical Installation (IET Wiring Regulations 18th Edition)

Electricity at Work Regulations 1989

Health & Safety Legislation

Below is a brief outline of the main criteria within the standards :

BS 6396 + A1 was published with regard to the use of electrical equipment within general office and educational furniture This standard sets out in its scope the use and testing of electrical socket outlets and associated wiring when used together with a 13 A BS 1363 fused plug for mains supply and makes provision for the routing of cables through furniture

For compliance with this standard, socket outlet configurations of up to 4 outlets should be individually fused at 5 A and up to 6 outlets individually fused at 3·15 A

A note on individual socket fusing – BS 6396 Compliance :

The standard requires individual socket fusing (as per the table below)

Total number of sockets	Individually fused at
2, 3 or 4 sockets	5 A
5 or 6 sockets	3·15 A

Meets the requirements of BS 7671
The Health and Safety Executive states that installations which conform to the standards laid down in BS 7671 are regarded by the HSE as likely to achieve conformity with the relevant parts of the Electricity at Work Regulations 1989

Special note should be taken of regulation 543·7 within BS 7671 - Earthing requirements for the installation of equipment having high protective conductor currents

Regulation 543·7 has particular importance when there is a requirement for a quantity of information technology equipment being supplied from a final circuit in a location where the sum of their protective currents exceeds 10 mA in normal use. Due to current in the protective conductor arising from the use of IT equipment, there is a requirement to provide mechanically protected 4 mm^2 conductor (543·7·203 (ii)). Intersoc achieves this when wired in accordance with the installation sheets by providing mechanically protected 5 mm^2 protective conductors within the product

Material specification

Module housing	heat resistant ABS
Socket outlets	polycarbonate
Busbars	high conductivity copper CW004A (C101)
Other metalwork	phosphor bronze CW451K (PB102), CW452K (PB103)
	brass CW507L (CZ107), CW508L (CZ108)
	high conductivity copper CW004A (C101)[1]

1 : European grades with nearest British Standard shown in brackets

All dimensions (mm) are nominal

Intersoc and Intermod under-desk modules

installation and configuration

■ Installation

To connect and disconnect Intersoc modules
1. Connection / disconnection to be made by a competent person
2. Before connecting modules ensure they are the correct way up and in line
3. Push modules together one at a time
4. Modules self-lock when fully pushed together
5. To disconnect modules slide green latch to unlock module and pull apart
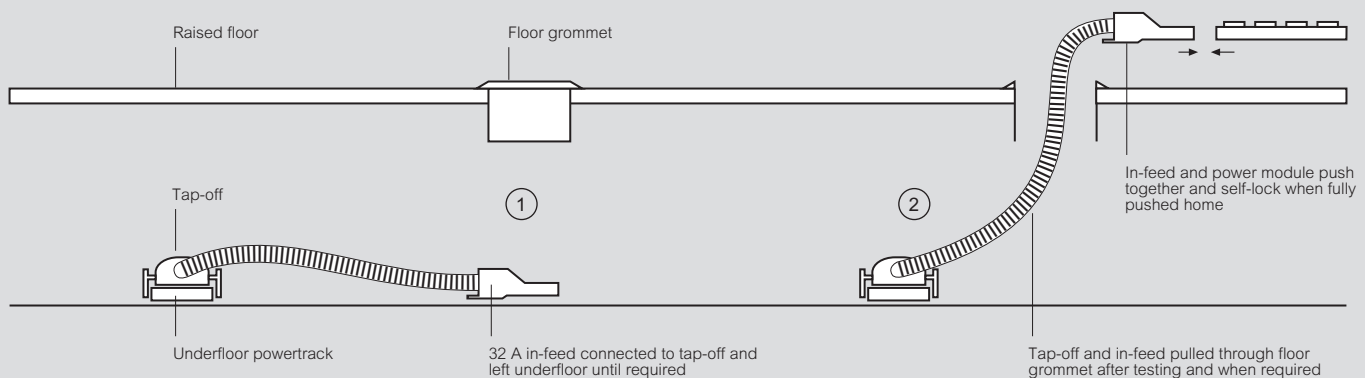6. Always end module run with blank end cap or interconnect

Module self-locking latch

Underside of modules shown

Slide green latch

Blank end cap
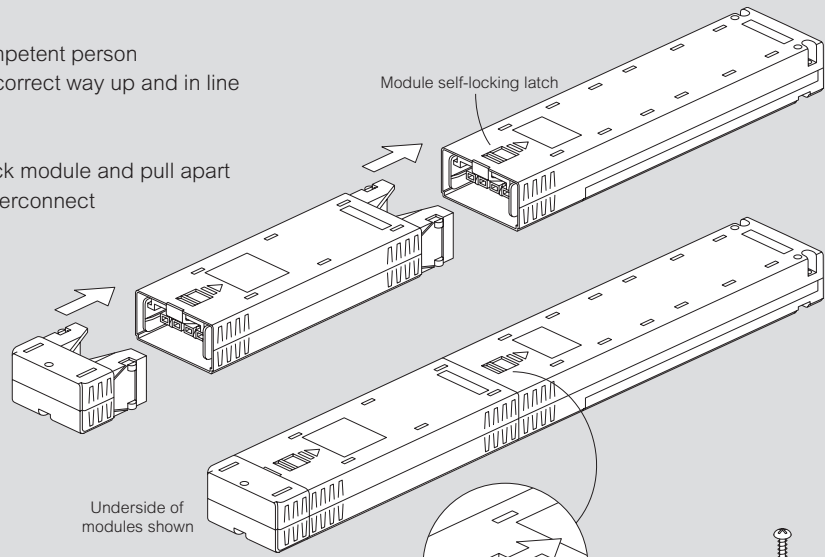
To fix modules to surface
1. Insert through all fixing holes no. 8 pozi-pan screw or M4 bolt to required length
2. Tighten screw / bolt down to mounting surface

2 socket module
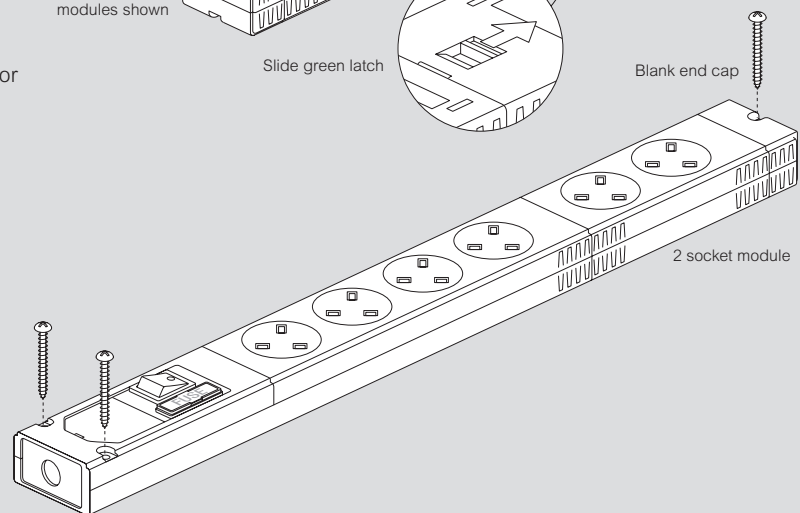
■ Product configuration
1. Select the type of distribution system - standard, or low noise / clean earth
2. Select the means of powering the system - cable or powertrack tap-off
3. Select the type of in-feed module to match the cable capacity - 16 A or 32 A
4. Select the means of protection
5. Select the number of socket modules from the 2, 3 or 4 gang range (individually fused or unfused)
6. Select fixed or rotatable sockets
7. Select the interconnection units if required
8. Finish system with the end cap
   (All modules push fit and lock together on-site or can be factory assembled to customer requirement)

Raised floor

Floor grommet

In-feed and power module push together and self-lock when fully pushed home

Tap-off

①

②

Underfloor powertrack

32 A in-feed connected to tap-off and left underfloor until required

Tap-off and in-feed pulled through floor grommet after testing and when required

All dimensions (mm) are nominal

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company/legranduk

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