

INTERSOC-R™

fast, reliable, adaptable

modular
desk power





COMPLETE SOLUTIONS FOR DEMANDING ENVIRONMENTS

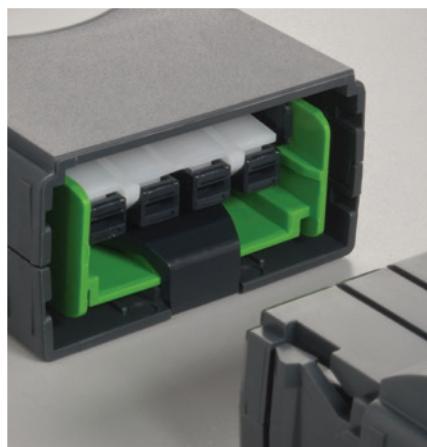
Intersoc-R is a modular desk power system designed to meet the demands of modern workplaces for faster and more adaptable solutions.

Designed with speed of installation and flexibility in mind, Intersoc-R's modular configuration enables thousands of different combinations to be made - providing solutions for every installation requirement.

- Modular system - rapid configuration and easy workstation relocation
- Push-fit connection - modules can simply be disconnected and additional modules inserted
- Busbar interconnection - no need for wiring
- Easily adapted to meet the changing demands of the workplace



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-R 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 : 2018 (including section 543.7)
- MCB, RCD and RCBO modules, with reversible hinged covers, provide a full range of circuit protection options
- 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

NEW
Intersoc On-desk
Personal power and data system

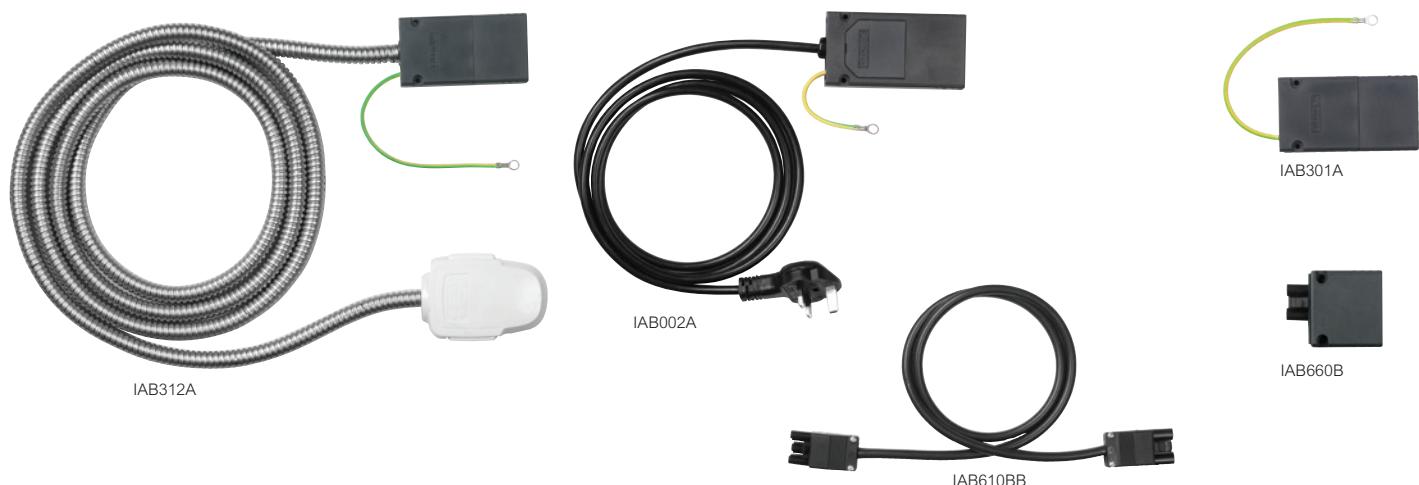


Find out more
on page 48



Intersoc-R™ desk modules

electrical supply



 Dimensions and technical information **p. 44-47**

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 : 2015 facility. Meets the requirements of BS 7671 : 2018 for high integrity earthing (section 543-7)

| Pack | Cat. Nos. | 32 A pre-wired feed modules | Pack | Cat. Nos. | 16 A feed modules pre-wired to 13 A fused plug |
|------|-----------|---|------|-----------|---|
| | | Standard earth tap-offs (E24 - White tap-off) | | | 16 A feed modules pre-wired to 13 A fused plug |
| 1 | IAB311A | 3 m unfused metal tap-off Cat. No. DP1332 | 1 | IAB002A | With 2 m 1.5 mm ² cable |
| 1 | IAB312A | 5 m unfused metal tap-off Cat. No. DP1532 | 1 | IAB003A | With 3 m 1.5 mm ² cable |
| 1 | IAB315A | 3 m 13 A fused 543.7 metal tap-off Cat. No. DP1327 | 1 | IAB005A | With 5 m 1.5 mm ² cable |
| 1 | IAB316A | 5 m 13 A fused 543.7 metal tap-off Cat. No. DP1527 | | | 16 A rewirable feed modules |
| | | Low noise / clean earth tap-offs (E25 - Green tap-off) | 1 | IAB201A | Rewirable feed module (for cable) |
| 1 | IAC311A | 3 m unfused metal tap-off Cat. No. JP2332 | | | 16 A feed units with in-built GST connector |
| 1 | IAC312A | 5 m unfused metal tap-off Cat. No. JP2532 | 1 | IAB660B | Compact feed module with male GST connector |
| 1 | IAC315A | 3 m 13 A fused 543.7 metal tap-off Cat. No. JP2327 | 1 | IAB201B | Feed module with male GST and earth bond lead |
| 1 | IAC316A | 5 m 13 A fused 543.7 metal tap-off Cat. No. JP2527 | | | 16 A pre-wired connection leads |
| | | Auxiliary earth tap-offs (E28 - Red tap-off) | 1 | IAB002B | With 2 m 1.5 mm ² cable |
| 1 | IAF311A | 3 m unfused metal tap-off Cat. No. YP5332 | 1 | IAB003B | With 3 m 1.5 mm ² cable |
| 1 | IAF312A | 5 m unfused metal tap-off Cat. No. YP5532 | 1 | IAB005B | With 5 m 1.5 mm ² cable |
| 1 | IAF315A | 3 m 13 A fused 543.7 metal tap-off Cat. No. YP5327 | | | GST to GST connection leads |
| 1 | IAF316A | 5 m 13 A fused 543.7 metal tap-off Cat. No. YP5527 | 1 | IAB610BB | 1 m length |
| | | 32 A re-wirable feed modules | 1 | IAB620BB | 2 m length |
| 1 | IAB301A | Standard earth (for flexible conduit) | 1 | IAB630BB | 3 m length |
| 1 | IAC301A | Low noise (for flexible conduit) | | | 32 A feed units with in-built Neutrik connectors |
| | | 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 | | | |

Intersoc-R™ desk modules

protection, BS sockets, end caps and interlinks



IAC502R



IAB402A



IAZ001A



IAB703A



IAB533F



IAB450A



IAB610B



IAB600B



IAB504R

 Dimensions and technical information **p. 44-47**

The BS version is available with fixed or rotatable sockets. Individually fused sockets are available to meet the requirements of BS 6396 : 2008 + A1 2015 (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 | 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 | With 16 A RCBO |
| 1 | IAB460A | With 20 A RCBO |
| 1 | IAB470A | With 32 A RCBO |

| 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 |

| 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 |

| 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 |

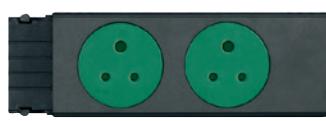
| Pack | Cat. Nos. | End cap |
|------|-----------|---------------|
| 1 | IAZ001A | Blank end cap |

| 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 | | |
| With flex to female GST connector | | |
| 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, BS sockets, end caps and interlinks



IAC5P2F



IAB5P4F



Dimensions and technical information **p. 42-45**

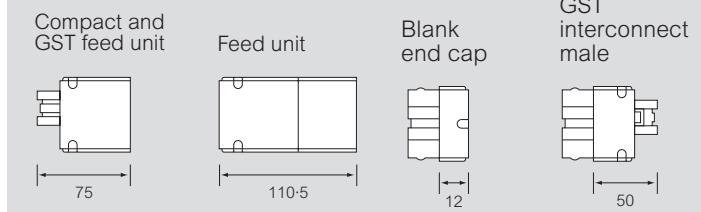
The Intersoc 32 A under-desk range is a complete modular power system. Intersoc offers a wide range of international socket options. The Intersoc modular system features safe shuttered electrical connections and a robustly designed rigid joint between modules. All modules connect with single push-fit 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 | IAC5P2F | Green – 2 P + CE |
| | | 3 gang fixed 90° grey – IS 1293 |
| 1 | IAB5P3F | Grey – 2 P + E |
| 1 | IAC5P3F | Green – 2 P + CE |
| | | 4 gang fixed 90° grey – IS 1293 |
| 1 | IAB5P4F | Grey – 2 P + E |
| 1 | IAC5P4F | Green – 2 P + CE |

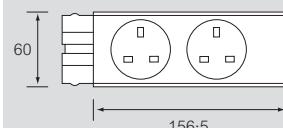
Intersoc-R™ desk modules

technical information

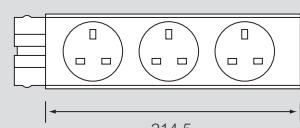
Under-desk dimensions (mm)



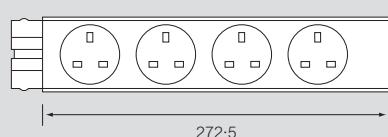
2 socket module¹



3 socket module¹



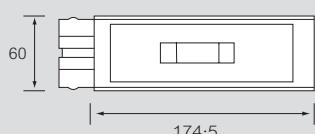
4 socket module¹



Fixed – end view Rotatable – end view

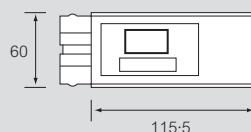


MCB, RCD protection module¹

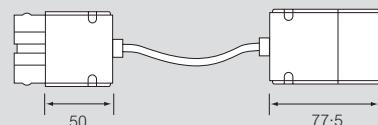


1 : 84.5 mm depth

Protection module



Interconnection



All dimensions (mm) are nominal

■ Testing and accreditation



Intertek

Independently approved by Intertek
Complies with BS 5733 and relevant parts of BS 1363-2
Manufactured within an approved ISO 9001 : 2015 and
ISO 14001 : 2015 facility
Assessed quality assurance certificate No. 2029

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 : 2008 + A1 2015 Electrical Systems in Office Furniture and Educational Furniture Specification

BS 7671 : 2018 incorporating amendment No. 3 : 2015. 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 : 2008 + A1 2015 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 : 2018

The Health and Safety Executive states that installations which conform to the standards laid down in BS 7671 : 2018 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 : 2018 - 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 mm² conductor (543.7-203 (ii)). Intersoc achieves this when wired in accordance with the installation sheets by providing mechanically protected 5 mm² 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

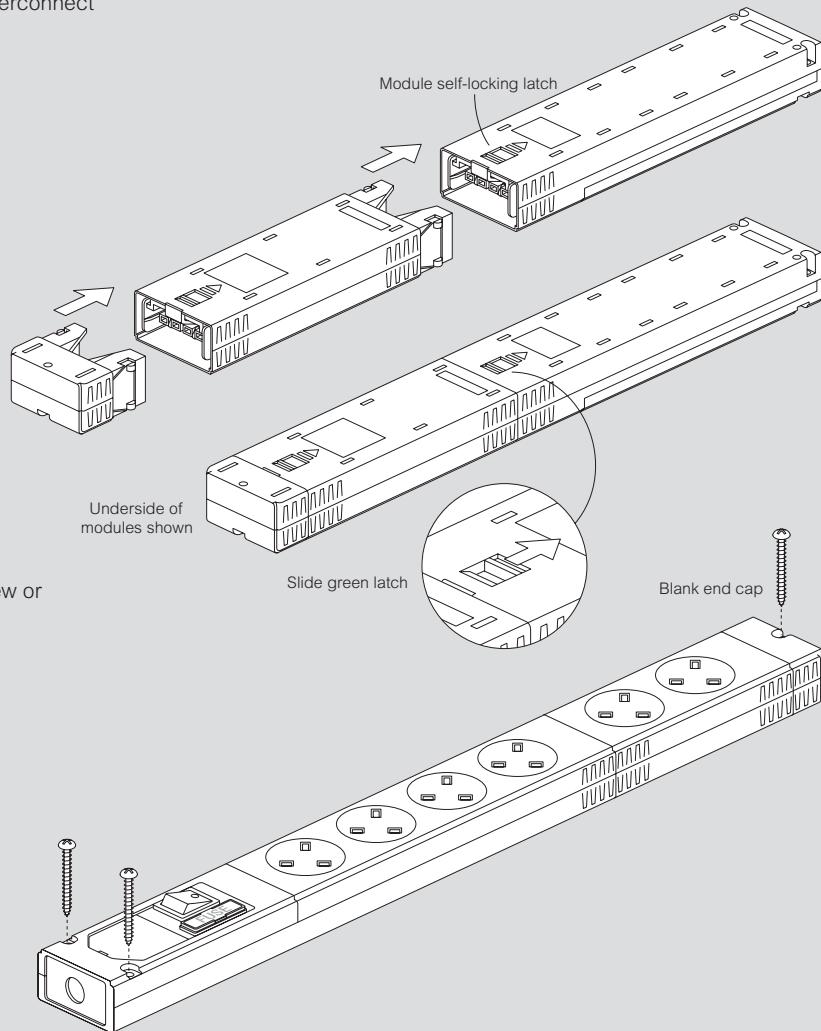
All dimensions (mm) are nominal

Intersoc-R™ 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

**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

■ 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)

