

# POWERING THE WORKPLACE

## PRODUCT GUIDE



# 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

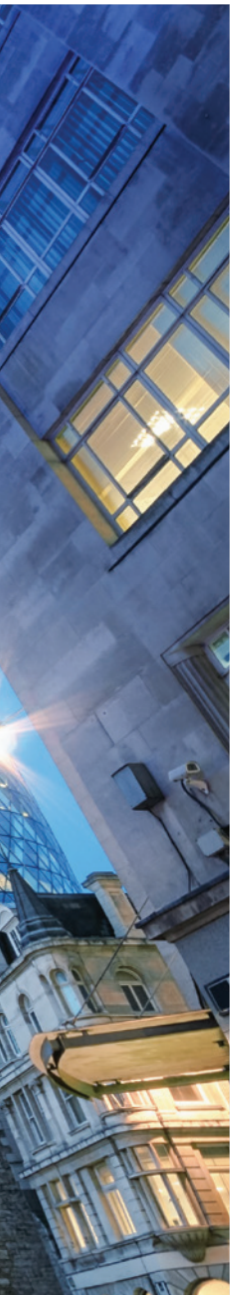
Legrand's CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly asserts Legrand's ongoing commitment to sustainable development.



### LEGRAND'S POWER DISTRIBUTION BUSINESS UNIT

From Zucchini transformers, through high power distribution and rising main busbar to Electrak powertrack, desk modules and lighting control, Legrand's power distribution business unit provides market leading solutions to the increasing demands of today's buildings.





## POWERTRACK

|                       |    |
|-----------------------|----|
| Overview              | 6  |
| Ordering information  | 8  |
| Technical information | 18 |



## FLOOR BOXES

|                       |    |
|-----------------------|----|
| Overview              | 24 |
| Ordering information  | 26 |
| Technical information | 33 |



## FLOOR GROMMETS

|                       |    |
|-----------------------|----|
| Overview              | 34 |
| Ordering information  | 36 |
| Technical information | 37 |



## INTERSOC-R

|                       |    |
|-----------------------|----|
| Overview              | 38 |
| Ordering information  | 42 |
| Technical information | 44 |



## ON-DESK

|                       |    |
|-----------------------|----|
| Overview              | 48 |
| Ordering information  | 52 |
| Technical information | 56 |



## IN-DESK

|                       |    |
|-----------------------|----|
| Overview              | 58 |
| Ordering information  | 60 |
| Technical information | 61 |



## BUSCOM TRUNKING

|                       |    |
|-----------------------|----|
| Overview              | 62 |
| Ordering information  | 64 |
| Technical information | 68 |

# CONTENTS

# ELECTRAK<sup>®</sup>

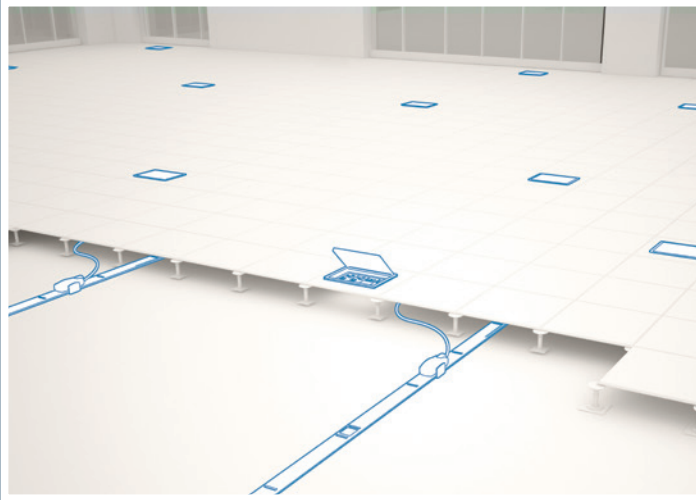
the specialist in power  
distribution throughout the  
**workplace**



Electrak, a brand of the Legrand Group in the UK, is a leading name in power distribution and lighting control solutions.

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

# Powering the workplace



## UNDERFLOOR POWER

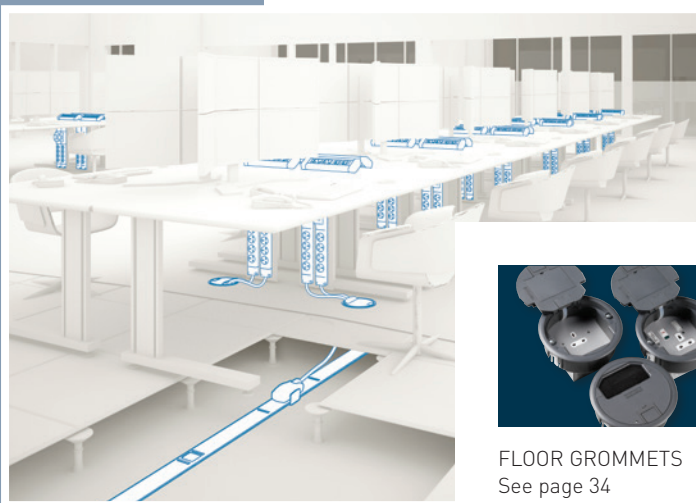
Electrak's powertrack system is perfect for supplying underfloor power in cavity floor installations. With minimal parts, push-fit assembly and a complementary range of floor boxes, this flexible, easy-to-install system can be reconfigured as office layouts evolve.



POWERTRACK  
See page 6



CAVITY FLOOR BOXES  
See page 24



## WORKSTATION POWER

Electrak's access grommets provide the gateway for power to feed from the underfloor powertrack network to the workstation, where all desk power requirements are met with our new range of desk modules, Intersoc-R, On-desk and In-desk.



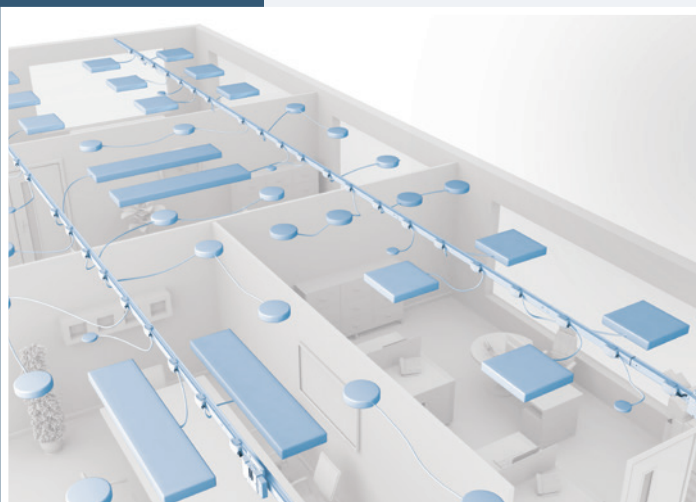
FLOOR GROMMETS  
See page 34



INTERSOC-R  
See page 38

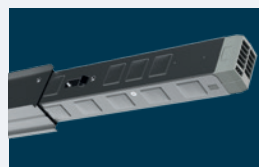


ON-DESK & IN-DESK  
See pages 48 & 58



## FULLY ADDRESSABLE LIGHTING CONTROL

Designed to work in harmony with Buscom trunking, Lightrak lighting control offers high-end sophistication with unbeatable flexibility and speed of installation.



BUSCOM  
power and data backbone  
See page 62



LIGHTRAK  
lighting control system  
Visit: [www.legrand.co.uk](http://www.legrand.co.uk)

# ELECTRAK<sup>®</sup>

## UK manufacturing Global recognition



### OVER 30 YEARS' EXPERIENCE

Legrand's cost-effective Electrak systems have been designed and manufactured to distribute power and data reliably and safely throughout the workplace. The original underfloor busbar system, invented by Electrak in the 1980s, sets the benchmark for flexible power distribution.

### INDUSTRY EXPERTS

As part of its ongoing commitment to research and development, Legrand continually evolves its product ranges to ensure it develops the best and most innovative solutions available on the market. Legrand takes pride in its enviable reputation for market leading customer service, industry knowledge and product expertise.



# TRUSTED

THROUGHOUT THE UK AND ACROSS THE WORLD



## UNITED KINGDOM

- Morgan Stanley, Canary Wharf
- Media City, Manchester
- JP Morgan, Canary Wharf
- RBS, Edinburgh
- Bridgewater Place, Leeds
- Network Rail, Nationwide
- Swiss Re, City of London
- Amazon, Swansea
- Heathrow Airport, London
- Snow Hill, Birmingham
- Barclays Capital, Canary Wharf
- Temple Back, Bristol
- Standard Chartered Bank, City of London
- London Underground
- BBC, White City
- Mann Island, Liverpool



## MIDDLE EAST & INDIA

- ADMA-OPCO HQ, Dubai
- Internet City, Dubai
- Burjuman Centre, Dubai
- ADIC/Al Bahr Towers, Abu Dhabi
- Al Dar HQ, Abu Dhabi
- Central Bank of Kuwait
- Ministry of Education, Kuwait
- PIFFS Aridya, Kuwait
- PAAET, Kuwait
- Qatar News Agency
- Barclays, Chennai, India
- Barclays, Pune, India
- Barclays, Andheri, India
- Barclays, Mumbai, India
- RBS, Delhi, India
- Fidelity, Delhi, India



## ASIA PACIFIC

- Deutsche Bank, ICC I, Hong Kong
- Customs Headquarters, North Point, Hong Kong
- Citi Bank Tower, Hong Kong
- Macquarie Bank, IFC I, Hong Kong
- UBS Bank, IFC II, Hong Kong
- JP Morgan, Hong Kong
- Nomura Bank, Marina Bay, Singapore
- Credit Suisse, Singapore
- ABN Amro, One Raffles Quay, Singapore
- RBS, One George Street, Singapore
- Barclays Capital, Shanghai
- Standard Chartered Bank, Shanghai

## QUALITY ASSURED UK MANUFACTURING



With its Electrak ranges manufactured from its UK base situated in the North East of England, Legrand can provide a rapid production response and adapt to ever-changing project demands. Having total production control also helps ensure our quality meets the highest standards.

## BUILDING INFORMATION MODELLING

As part of Legrand's ongoing commitment to supporting construction, we have integrated a number of ranges into the BIM environment to assist all areas of project activity, from design and construction through to facilities management and beyond.

Autodesk Revit files are now available for Electrak powertrack, floor boxes and Buscom trunking.

**Download Revit files at: [www.legrand.co.uk](http://www.legrand.co.uk)**



# POWERTRACK

adaptable, reliable

underfloor power



## THE INDUSTRY STANDARD IN UNDERFLOOR POWER

Electrak powertrack / underfloor busbar is perfect for cavity floor installations. With minimal parts, push-fit assembly and a complementary range of floor boxes and grommets, this flexible, easy-to-install system can be reconfigured as office layouts evolve.

The system consists of continuous lengths of track which are fed via a feed unit and can be installed in floor voids as low as 48mm.

- 63 A rated, IP 40 protection
- Available in five versions: single phase, clean earth, dual circuit, three phase and auxiliary earth
- Tinned busbar version available for use within Abu Dhabi (see page 15)
- Available in 1.2m, 1.8m, 2.4m and 3.6m lengths
- Tap-off outlets are located at every 300 or 600mm pitch
- Floor mountable (stand-off brackets also available)



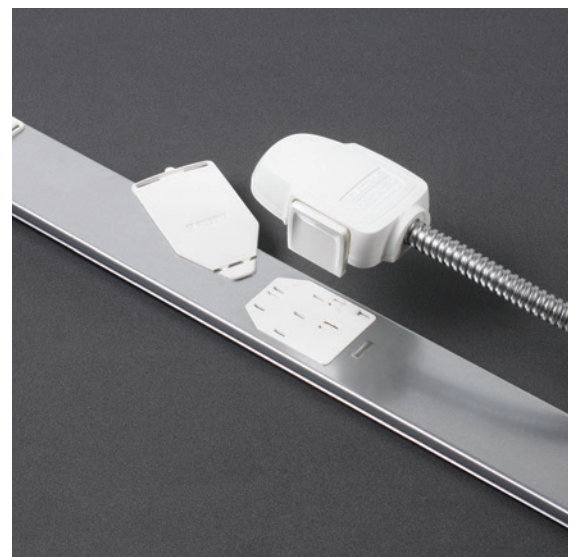
Integral track connector plugs into feed unit



Lengths simply push-fit together



Integral fixing brackets for rapid installation







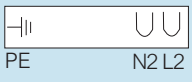

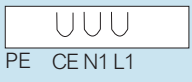

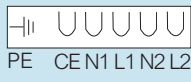



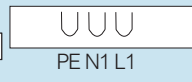


Tap-offs plug into shuttered socket outlets and lock onto track body

# Electrak® powertrack / underfloor busbar system

## selection chart

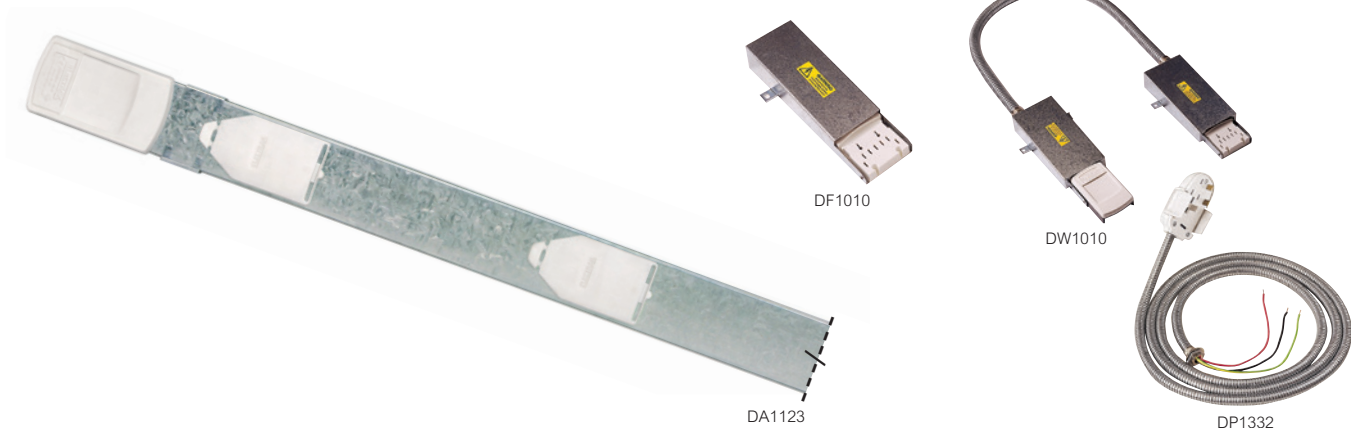
|   | Description   | Length (m) |  |
|---|---|------------|--|
| <b>Track lengths with 300 mm socket centres</b>   |   |            |  |
|   | 4 outlets   | 1-2        |  |
|   | 6 outlets   | 1-8        |  |
|   | 8 outlets   | 2-4        |  |
|   | 12 outlets  | 3-6        |  |
| <b>Track feeds</b>                                |   |            |  |
|   |   | -          |  |
|   | Excluding cables and conduit                              | -          |  |
|   | Flexible metal conduit                                    | 1-2        |  |
|   | Flexible metal conduit                                    | 2-4        |  |
| <b>Standard tap-off / auxiliary earth tap-off</b> |   |            |  |
|   | 32 A unfused 16 mm Ø L, N, PE                             | 3          |  |
|   |   | 5          |  |
|   | 13 A fused 16 mm Ø L, N, PE                               | 3          |  |
|   |   | 5          |  |
|   | 13 A 543-7 fused 16 mm Ø L, N, PE                         | 3          |  |
|   |   | 5          |  |
| <b>Low noise / clean earth tap-off</b>            |   |            |  |
|   | 32 A unfused 16 mm Ø CE, L, N, PE                         | 3          |  |
|   |   | 5          |  |
|   | 13 A fused 16 mm Ø CE, L, N, PE                           | 3          |  |
|   |   | 5          |  |
|   | 13 A 543-7 fused 16 mm Ø CE, L, N, PE                     | 3          |  |
|   |   | 5          |  |
| <b>Dual circuit tap-off</b>                       |   |            |  |
|   | 32 A unfused 20 mm Ø CE, L1, N1 L2, N2, PE                | 3          |  |
|   |   | 5          |  |
| <b>3 phase tap-off</b>                            |   |            |  |
|   | 32 A 415 V 3 phase 20 mm Ø L1, L2, L3, N, PE              | 3          |  |
|   |   | 5          |  |
|   | 32 A L1 unfused reconfigurable live pin 16 mm Ø L1, N, PE | 3          |  |
|   |   | 5          |  |
|   | 32 A L2 unfused reconfigurable live pin 16 mm Ø L2, N, PE | 3          |  |
|   |   | 5          |  |
|   | 32 A L3 unfused reconfigurable live pin 16 mm Ø L3, N, PE | 3          |  |
|   |   | 5          |  |
|   | Key code / Busbar arrangement                             |            |  |

|    | <b>ELECTRAK 24</b><br>Standard system<br>(white)                                    |    | <b>ELECTRAK 25</b><br>Low noise / clean<br>earth system (green)                     |    | <b>ELECTRAK 26</b><br>Dual circuit<br>system (dark green)                           |    | <b>ELECTRAK 27</b><br>3 phase<br>system (grey)  |    | <b>ELECTRAK 28</b><br>Auxiliary earth<br>system (red)                                 |
|--|---|---|---|---|---|--|---|---|---|
|  | DA1123  |   | JA2123  |   | KA3123  |  | NA4123  |   | YA5123  |
|  | DA1183  |   | JA2183  |   | KA3183  |  | NA4183  |   | YA5183  |
|  | DA1243  |   | JA2243  |   | KA3243  |  | NA4243  |   | YA5243  |
|  | DA1363  |   | JA2363  |   | KA3363  |  | NA4363  |   | YA5363  |
|  | DF1010  |   | JF2010  |   | KF3010  |  | NF4010  |   | YF5010  |
|  | DW1000  |   | JW2000  |   | KW3000  |  | NW4000  |   | YW5000  |
|  | DW1010  |   | JW2010  |   | KW3010  |  | NW4010  |   | YW5010  |
|  | DW1020  |   | JW2020  |   | KW3020  |  | NW4020  |   | YW5020  |
|  | DP1332  |   | –   |   | DP1332  |  | –   |   | YP5332  |
|  | DP1532  |   | –   |   | DP1532  |  | –   |   | YP5532  |
|  | DP1313  |   | –   |   | DP1313  |  | –   |   | YP5313  |
|  | DP1513  |   | –   |   | DP1513  |  | –   |   | YP5513  |
|  | DP1327  |   | –   |   | DP1327  |  | –   |   | YP5327  |
|  | DP1527  |   | –   |   | DP1527  |  | –   |   | YP5527  |
|  | –   |   | JP2332  |   | JP2332  |  | –   |   | –   |
|  | –   |   | JP2532  |   | JP2532  |  | –   |   | –   |
|  | –   |   | JP2313  |   | JP2313  |  | –   |   | –   |
|  | –   |   | JP2513  |   | JP2513  |  | –   |   | –   |
|  | –   |   | JP2327  |   | JP2327  |  | –   |   | –   |
|  | –   |   | JP2527  |   | JP2527  |  | –   |   | –   |
|  | –   |   | –   |   | KP3328  |  | –   |   | –   |
|  | –   |   | –   |   | KP3528  |  | –   |   | –   |
|  | –   |   | –   |   | –   |  | NZ4331  |   | –   |
|  | –   |   | –   |   | –   |  | NZ4531  |   | –   |
|  | –   |   | –   |   | –   |  | NP4332 <sup>1</sup>   |   | –   |
|  | –   |   | –   |   | –   |  | NP4532 <sup>1</sup>   |   | –   |
|  | –   |   | –   |   | –   |  | NP4302 <sup>1</sup>   |   | –   |
|  | –   |   | –   |   | –   |  | NP4502 <sup>1</sup>   |   | –   |
|  | –   |   | –   |   | –   |  | NP4303 <sup>1</sup>   |   | –   |
|  | –   |   | –   |   | –   |  | NP4503 <sup>1</sup>   |   | –   |
|  |  |  |  |  |  |  |  |  |  |

1 : All NP tap-offs are reconfigurable between L1, L2 or L3 for 3 phase track

# Electrak® 24 powertrack / underfloor busbar system

standard system (white)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 18-23**

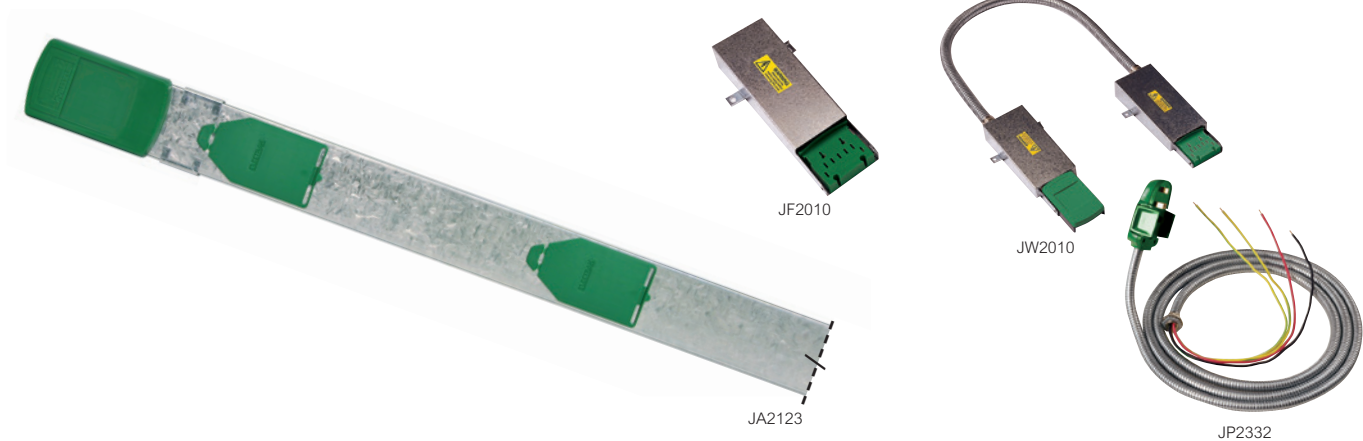
Approved to ASTA Standard 138 and ISO 9001 : 2015  
Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
A compact system that can be installed in floor voids as low as 48 mm

| Pack | Cat. Nos. | Track system components   | Pack | Cat. Nos. | Tap-off units  |
|------|-----------|---|------|-----------|--|
|      |           | <p><b>Electrak 24 standard track lengths</b></p> <p>Track lengths fit together using the integral connectors on each length<br/>Track lengths should always be secured using the integral floor fixing brackets<br/>300 mm socket centres</p> |      |           | <p>Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit<sup>1</sup><br/>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A</p> |
| 1    | DA1123    | 1.2 m, 4 outlets, 2 floor fixing brackets   |      |           | <p><b>32 A unfused - 543-7 high integrity</b></p> <p>16 mm Ø, L, N, PE</p>   |
| 1    | DA1183    | 1.8 m, 6 outlets, 2 floor fixing brackets   | 1    | DP1332    | 3 m  |
| 1    | DA1243    | 2.4 m, 8 outlets, 2 floor fixing brackets   | 1    | DP1532    | 5 m  |
| 1    | DA1363    | 3.6 m, 12 outlets, 3 floor fixing brackets  |      |           | <p><b>13 A fused - 543-7 high integrity</b></p> <p>16 mm Ø, L, N, PE</p>   |
|      |           | <p><b>Track feed unit</b></p> <p>DF1010 With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit</p>  | 1    | DP1327    | 3 m  |
|      |           | <p><b>Flexible interlinks</b></p> <p>Can be used to overcome obstructions or as corners where required</p>  | 1    | DP1527    | 5 m  |
| 1    | DW1000    | Excluding cables and conduit  |      |           | <p><b>13 A fused</b></p> <p>16 mm Ø, L, N, PE</p>  |
| 1    | DW1010    | 1.2 m flexible metal conduit  | 1    | DP1313    | 3 m  |
| 1    | DW1020    | 2.4 m flexible metal conduit  | 1    | DP1513    | 5 m  |
|      |           | <p><b>Special fixing brackets</b></p> <p>Required when track is raised off surface level<br/>Brackets raise track by 21 mm and should be spaced 600 mm apart</p>  |      |           | <p><b>Tap-off units specifically for the U.A.E.</b></p> <p>To meet the local requirements, these tap-offs contain silver-flashed blades, larger 20 mm Ø conduits and minimum 4 mm<sup>2</sup> conductors</p>   |
| 1    | DZ1210    | For fitting under track body and track feed   | 1    | DP1332R   | 3 m U.A.E.   |
| 1    | DZ1230    | For fitting under integral track connectors   | 1    | DP1532R   | 5 m U.A.E.   |
|      |           |   |      |           | <p><b>32 A unfused - 543-7 high integrity</b></p> <p>L (red), N (black), PE (green/yellow)</p>   |
|      |           |   |      |           | <p><b>13 A fused - 543-7 high integrity</b></p> <p>L (red), N (black), PE (green/yellow)</p>   |
|      |           |   | 1    | DP1314R   | 3 m U.A.E.   |
|      |           |   | 1    | DP1514R   | 5 m U.A.E.   |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 370 608 9020

# Electrak® 25 powertrack / underfloor busbar system

low noise / clean earth system (green)



 Selection charts **p. 8-9**  
Dimensions and technical information **p. 18-23**

Approved to ASTA Standard 138 and ISO 9001 : 2015  
Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
A compact system that can be installed in floor voids as low as 48 mm

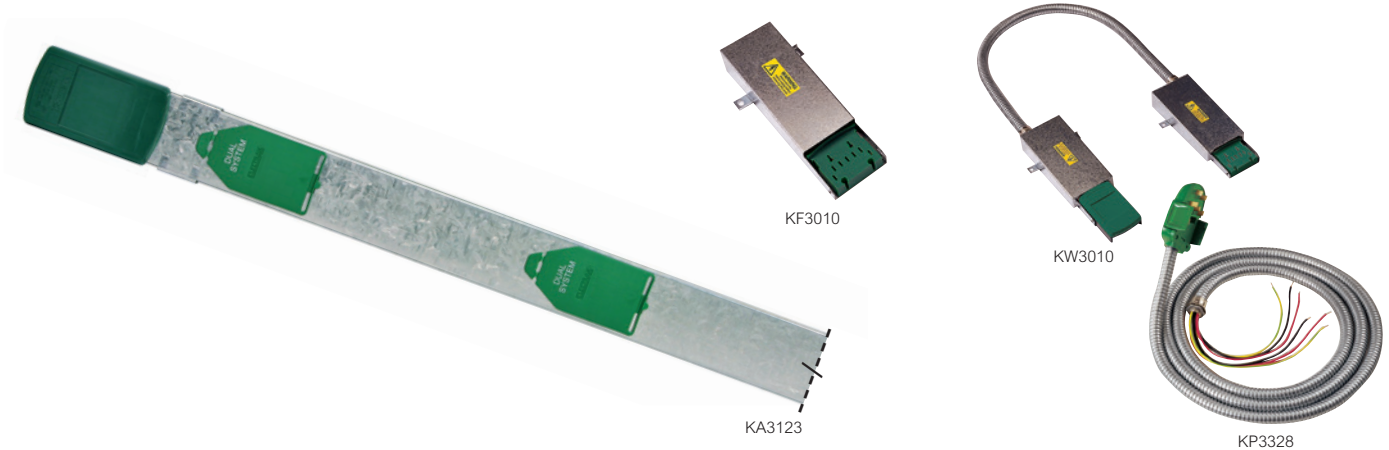
| Pack | Cat. Nos. | Track system components   |
|------|-----------|---|
|      |           | <b>Electrak 25 low noise / clean earth track lengths</b><br>Track lengths fit together using the integral connectors on each length<br>Track lengths should always be secured using the integral floor fixing brackets<br>300 mm socket centres |
| 1    | JA2123    | 1·2 m, 4 outlets, 2 floor fixing brackets   |
| 1    | JA2183    | 1·8 m, 6 outlets, 2 floor fixing brackets   |
| 1    | JA2243    | 2·4 m, 8 outlets, 2 floor fixing brackets   |
| 1    | JA2363    | 3·6 m, 12 outlets, 3 floor fixing brackets  |
|      |           | <b>Track feed unit</b>  |
| 1    | JF2010    | With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit  |
|      |           | <b>Flexible interlinks</b><br>Can be used to overcome obstructions or as corners where required   |
| 1    | JW2000    | Excluding cables and conduit  |
| 1    | JW2010    | 1·2 m flexible metal conduit  |
| 1    | JW2020    | 2·4 m flexible metal conduit  |
|      |           | <b>Special fixing brackets</b><br>Required when track is raised off surface level<br>Brackets raise track by 21 mm and should be spaced 600 mm apart  |
| 1    | DZ1210    | For fitting under track body and track feed   |
| 1    | DZ1230    | For fitting under integral track connectors   |

| Pack | Cat. Nos. | Tap-off units   |
|------|-----------|---|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2·6 m of flexible metal conduit <sup>1</sup><br>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A |
|      |           | <b>32 A unfused - 543·7 high integrity</b><br>16 mm Ø, CE, L, N, PE   |
| 1    | JP2332    | 3 m   |
| 1    | JP2532    | 5 m   |
|      |           | <b>13 A fused - 543·7 high integrity</b><br>16 mm Ø, CE, L, N, PE   |
| 1    | JP2327    | 3 m   |
| 1    | JP2527    | 5 m   |
|      |           | <b>13 A fused</b><br>16 mm Ø, CE, L, N, PE  |
| 1    | JP2313    | 3 m   |
| 1    | JP2513    | 5 m   |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 370 608 9020

# Electrak® 26 powertrack / underfloor busbar system

dual circuit system (dark green)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 18-23**

Approved to ASTA Standard 138 and ISO 9001 : 2015  
Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
A compact system that can be installed in floor voids as low as 48 mm

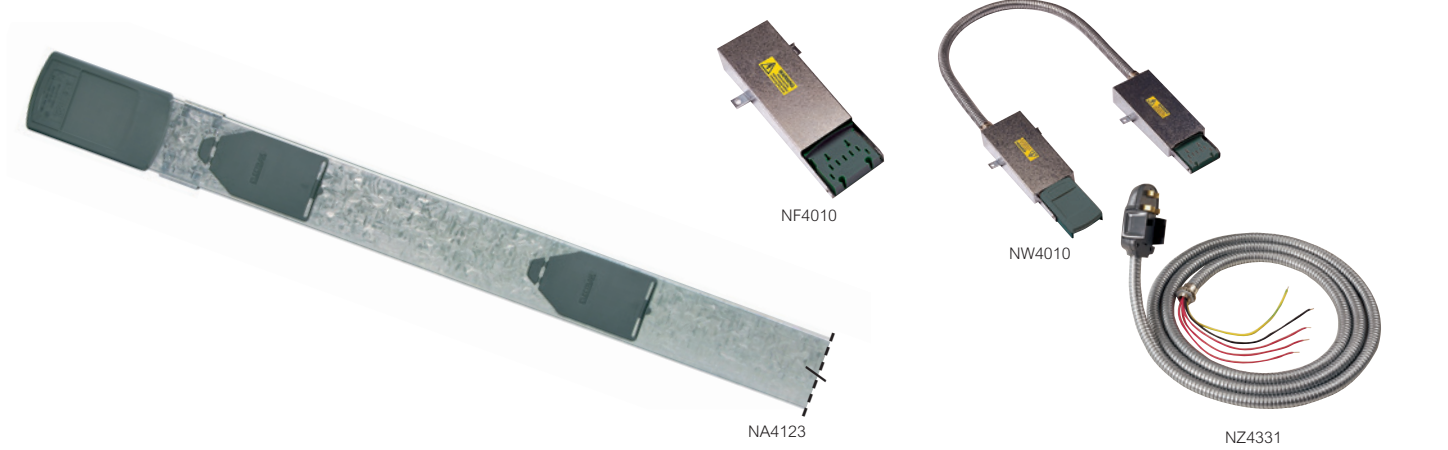
| Pack | Cat. Nos. | Track system components   |
|------|-----------|---|
|      |           | The dual powertrack system has both standard and low noise / clean earth systems incorporated     |
|      |           | <b>Electrak 26 dual circuit track lengths</b>   |
|      |           | Track lengths fit together using the integral connectors on each length                           |
|      |           | Track lengths should always be secured using the integral floor fixing brackets                   |
|      |           | 300 mm socket centres   |
| 1    | KA3123    | 1.2 m, 4 outlets, 2 floor fixing brackets   |
| 1    | KA3183    | 1.8 m, 6 outlets, 2 floor fixing brackets   |
| 1    | KA3243    | 2.4 m, 8 outlets, 2 floor fixing brackets   |
| 1    | KA3363    | 3.6 m, 12 outlets, 3 floor fixing brackets  |
|      |           | <b>Track feed unit</b>  |
| 1    | KF3010    | With two 25 mm diameter holes suitable for MICC, armoured cables or single core cables in conduit |
|      |           | <b>Flexible interlinks</b>  |
|      |           | Can be used to overcome obstructions or as corners where required                                 |
| 1    | KW3000    | Excluding cables and conduit  |
| 1    | KW3010    | 1.2 m flexible metal conduit  |
| 1    | KW3020    | 2.4 m flexible metal conduit  |
|      |           | <b>Special fixing brackets</b>  |
|      |           | Required when track is raised off surface level   |
|      |           | Brackets raise track by 21 mm and should be spaced 600 mm apart                                   |
| 1    | DZ1210    | For fitting under track body and track feed   |
| 1    | DZ1230    | For fitting under integral track connectors   |

| Pack | Cat. Nos. | Tap-off units  |
|------|-----------|--|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit <sup>1</sup> |
|      |           | Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A      |
|      |           | <b>Standard 32 A unfused - 543-7 high integrity</b>  |
|      |           | 16 mm Ø, L, N, PE  |
| 1    | DP1332    | 3 m  |
| 1    | DP1532    | 5 m  |
|      |           | <b>Standard 13 A fused - 543-7 high integrity</b>  |
|      |           | 16 mm Ø, L, N, PE  |
| 1    | DP1327    | 3 m  |
| 1    | DP1527    | 5 m  |
|      |           | <b>Standard 13 A fused</b>   |
|      |           | 16 mm Ø, L, N, PE  |
| 1    | DP1313    | 3 m  |
| 1    | DP1513    | 5 m  |
|      |           | <b>Low noise / clean earth 32 A unfused - 543-7 high integrity</b>   |
|      |           | 16 mm Ø, CE, L, N, PE  |
| 1    | JP2332    | 3 m  |
| 1    | JP2532    | 5 m  |
|      |           | <b>Low noise / clean earth 13 A fused - 543-7 high integrity</b>   |
|      |           | 16 mm Ø, CE, L, N, PE  |
| 1    | JP2327    | 3 m  |
| 1    | JP2527    | 5 m  |
|      |           | <b>Low noise / clean earth 13 A fused</b>  |
|      |           | 16 mm Ø, CE, L, N, PE  |
| 1    | JP2313    | 3 m  |
| 1    | JP2513    | 5 m  |
|      |           | <b>Dual circuit 32 A unfused - 543-7 high integrity</b>  |
|      |           | 20 mm Ø, CE, L1, N1, L2, N2, PE  |
| 1    | KP3328    | 3 m  |
| 1    | KP3528    | 5 m  |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 370 608 9020

# Electrak® 27 powertrack / underfloor busbar system

3 phase system (grey)



 Selection charts **p. 8-9**  
Dimensions and technical information **p. 18-23**

Approved to ASTA Standard 138 and ISO 9001 : 2015  
Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
A compact system that can be installed in floor voids as low as 48 mm

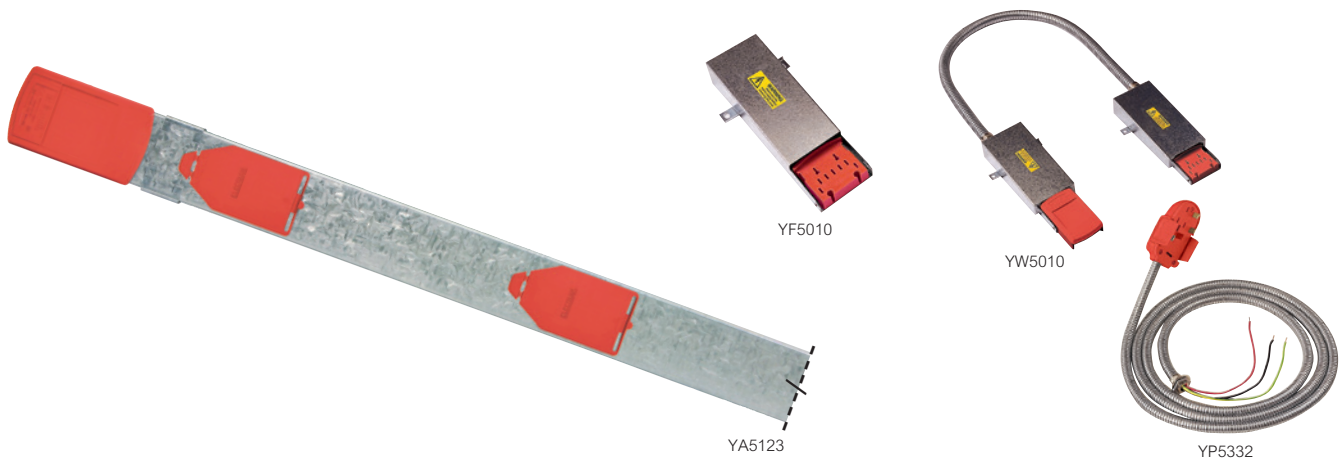
| Pack | Cat. Nos. | Track system components   |
|------|-----------|---|
|      |           | <b>Electrak 27 3 phase track lengths</b><br>Track lengths fit together using the integral connectors on each length<br>Track lengths should always be secured using the integral floor fixing brackets<br>300 mm socket centres |
| 1    | NA4123    | 1·2 m, 4 outlets, 2 floor fixing brackets   |
| 1    | NA4183    | 1·8 m, 6 outlets, 2 floor fixing brackets   |
| 1    | NA4243    | 2·4 m, 8 outlets, 2 floor fixing brackets   |
| 1    | NA4363    | 3·6 m, 12 outlets, 3 floor fixing brackets  |
|      |           | <b>Track feed unit</b><br>With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit  |
| 1    | NF4010    |   |
|      |           | <b>Flexible interlinks</b><br>Can be used to overcome obstructions or as corners where required   |
| 1    | NW4000    | Excluding cables and conduit  |
| 1    | NW4010    | 1·2 m flexible metal conduit  |
| 1    | NW4020    | 2·4 m flexible metal conduit  |
|      |           | <b>Special fixing brackets</b><br>Required when track is raised off surface level<br>Brackets raise track by 21 mm and should be spaced 600 mm apart  |
| 1    | DZ1210    | For fitting under track body and track feed   |
| 1    | DZ1230    | For fitting under integral track connectors   |

| Pack | Cat. Nos. | Tap-off units   |
|------|-----------|---|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2·6 m of flexible metal conduit <sup>1</sup><br>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A |
|      |           | <b>32 A 415 V 3 phase - 543·7 high integrity</b><br>20 mm Ø, L1, L2, L3, N, PE  |
| 1    | NZ4331    | 3 m   |
| 1    | NZ4531    | 5 m   |
|      |           | <b>32 A L1<sup>2</sup> unfused - 543·7 high integrity</b><br>Reconfigurable live pin<br>16 mm Ø, L, N, PE   |
| 1    | NP4332    | 3 m   |
| 1    | NP4532    | 5 m   |
|      |           | <b>32 A L2<sup>2</sup> unfused - 543·7 high integrity</b><br>Reconfigurable live pin<br>16 mm Ø, L, N, PE   |
| 1    | NP4302    | 3 m   |
| 1    | NP4502    | 5 m   |
|      |           | <b>32 A L3<sup>2</sup> unfused - 543·7 high integrity</b><br>Reconfigurable live pin<br>16 mm Ø, L, N, PE   |
| 1    | NP4303    | 3 m   |
| 1    | NP4503    | 5 m   |
|      |           | <b>Tap-off units specifically for the U.A.E.</b><br>To meet the local requirements, these tap-offs contain silver-flashed blades, larger 20 mm Ø conduits, minimum 4 mm <sup>2</sup> conductors and use RYB colour coding for the conductors  |
|      |           | <b>32 A unfused - 543·7 high integrity</b>  |
| 1    | NP4332R   | 3 m L1 U.A.E. (R)   |
| 1    | NP4532R   | 5 m L1 U.A.E. (R)   |
| 1    | NP4302Y   | 3 m L2 U.A.E. (Y)   |
| 1    | NP4502Y   | 5 m L2 U.A.E. (Y)   |
| 1    | NP4303B   | 3 m L3 U.A.E. (B)   |
| 1    | NP4503B   | 5 m L3 U.A.E. (B)   |

1 : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 370 608 9020  
2 : All NP tap-offs are reconfigurable between L1, L2, or L3 for 3 phase track

# Electrak® 28 powertrack / underfloor busbar system

## auxiliary earth system (red)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 18-23**

Approved to ASTA Standard 138 and ISO 9001 : 2015  
Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
A compact system that can be installed in floor voids as low as 48 mm

| Pack | Cat. Nos. | Track system components   |
|------|-----------|---|
|      |           | <b>Electrak 28 auxiliary earth track lengths</b><br>Track lengths fit together using the integral connectors on each length<br>Track lengths should always be secured using the integral floor fixing brackets<br>300 mm socket centres |
| 1    | YA5123    | 1·2 m, 4 outlets, 2 floor fixing brackets   |
| 1    | YA5183    | 1·8 m, 6 outlets, 2 floor fixing brackets   |
| 1    | YA5243    | 2·4 m, 8 outlets, 2 floor fixing brackets   |
| 1    | YA5363    | 3·6 m, 12 outlets, 3 floor fixing brackets  |
|      |           | <b>Track feed unit</b>  |
| 1    | YF5010    | With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit  |
|      |           | <b>Flexible interlinks</b><br>Can be used to overcome obstructions or as corners where required   |
| 1    | YW5000    | Excluding cables and conduit  |
| 1    | YW5010    | 1·2 m flexible metal conduit  |
| 1    | YW5020    | 2·4 m flexible metal conduit  |
|      |           | <b>Special fixing brackets</b><br>Required when track is raised off surface level<br>Brackets raise track by 21 mm and should be spaced 600 mm apart  |
| 1    | DZ1210    | For fitting under track body and track feed   |
| 1    | DZ1230    | For fitting under integral track connectors   |

| Pack | Cat. Nos. | Tap-off units   |
|------|-----------|---|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2·6 m of flexible metal conduit <sup>1</sup><br>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A |
|      |           | <b>32 A unfused - 543-7 high integrity</b><br>16 mm Ø, L, N, PE   |
| 1    | YP5332    | 3 m   |
| 1    | YP5532    | 5 m   |
|      |           | <b>13 A fused - 543-7 high integrity</b><br>16 mm Ø, L, N, PE   |
| 1    | YP5327    | 3 m   |
| 1    | YP5527    | 5 m   |
|      |           | <b>13 A fused</b><br>16 mm Ø, L, N, PE  |
| 1    | YP5313    | 3 m   |
| 1    | YP5513    | 5 m   |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 370 608 9020



# Electrak tinned powertrack...

Designed to meet  
local standards

Guideline For Design, Testing and Installation Of Busways GL.GN.01.

Issued by: Abu Dhabi Distribution Co.

Low Voltage Switchgear Committee

Issue: 2, Revision: 1, effective 01/02/2012

16. Lighting & Small Power Busways & Modular Wiring  
Lighting & Power Socket bus duct and modular wiring are considered part of building wiring and regulated by the Electricity Wiring Regulation issued by RSB. It shall comply with respective specifications under the Wiring regulation. ADDC LVSGC approves these methods in principle provided that the RSB set aspects are incorporated (like tinning of copper, colour coding etc.).

**Guideline For Design, Testing and Installation Of Busways GL.GN.01**

Copyright Abu Dhabi Distribution Co.

Developed to meet the ADDC requirements for busways, these specially designed ranges see all busbars tinned along their entire length, and all busbar connectors and tap-off blades plated.

Approved to ASTA standard 138 and designed to be in accordance with the requirements of BS EN 61439-6 : 2011 and BS EN 61534-22: 2014 (IEC 61534: 2009).

**The Electrical Wiring Regulations 2007**  
Issued by: The Regulation and Supervision Bureau for the Water, Wastewater and Electricity Sector in the Emirate of Abu Dhabi. Revision 1, January 2009

7.7 Busways, bus ducts and busbar risers  
7.7.6 Busways, bus ducts and busbar risers shall have neutral conductors of equal size to the phase conductors and shall have a dedicated Earth Conductor. The use of the metal casing as an earth conductor permitted only for Earth Leakage Protected Installations, and with the prior approval of the Distribution Company.

**The Electrical Wiring Regulations 2007**

Copyright The Regulation and Supervision Bureau (RSB)

The Electrak powertrack system uses equal size tinned copper busbars for live, neutral and earth conductors to meet with the requirements of The Regulation and Supervision Bureau of the Water, Wastewater and Electricity Sector in the Emirate of Abu Dhabi.

As a specific requirement for use within Abu Dhabi, Legrand has developed a 'tinned' busbar which has been designed in line with the guidance for busways outlined by the Abu Dhabi Distribution Company (ADDC), as detailed below.



Electrak 28R tinned tap-offs



Electrak 28R tinned busbar connectors

**Appendix 8.** Colour identification for cables

| Conductor  | Colour         |
|--|----------------|
| <b>Non-flexible fixed wiring and all 3 phase cables:</b> |                |
| Phase 1  | Red            |
| Phase 2  | Yellow         |
| Phase 3  | Blue           |
| Neutral  | Black          |
| Earth conductors   | Green / yellow |

To meet the local regulations, tap-offs designed for sale within this region are supplied with the following cable colours:

Within any single phase system (e.g. Electrak 25R or Electrak 28R) - red (L), black (N) and green/yellow (E).

Specifically within the 3 phase Electrak 27 system - L1 tap-offs are red (L), black (N) and green/yellow (E); L2 tap-offs are yellow (L), black (N) and green/yellow (E); L3 tap-offs are blue (L), black (N) and green/yellow (E).

**Appendix 9.** Capacity of conduits and trunking

| Conduit (mm <sup>2</sup> )          | Diameter of Conduit (mm <sup>2</sup> ) |    |    |
|-------------------------------------|--|----|----|
|                                     | 20                                     | 25 | 32 |
| <b>Maximum number of conductors</b> |  |    |    |
| 1.5                                 | 7                                      | 12 | -  |
| 2.5                                 | 5                                      | 9  | 12 |
| 4.0                                 | 3                                      | 6  | 9  |

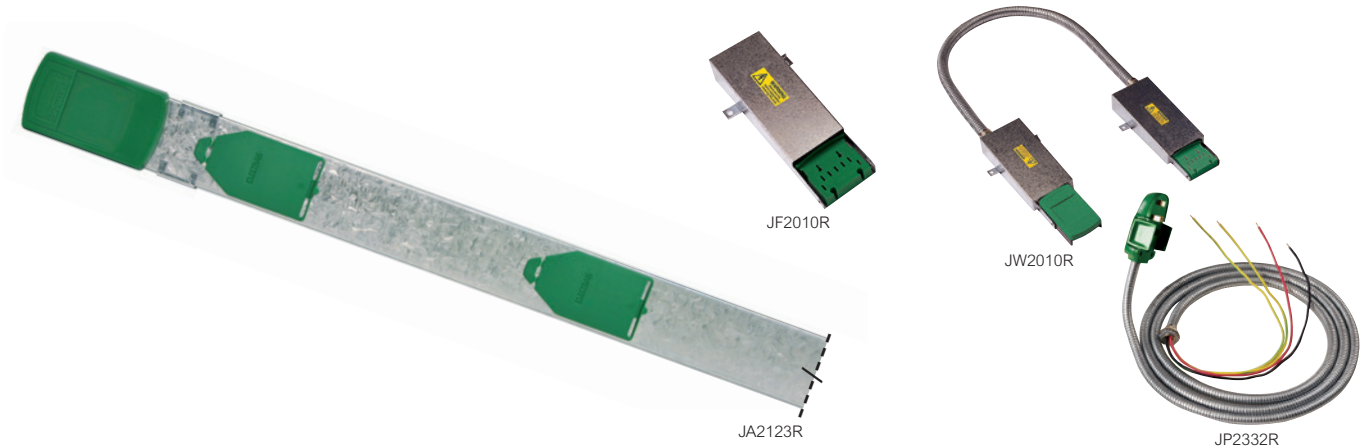
The tap-offs contain a maximum of 2 x 4mm<sup>2</sup> conductors (excluding earths) housed in a 20mm ø metal flexible conduit.

**NOTE:** When designing installation in regions with higher ambient temperatures than 35°C, de-rating factors may need to be applied. Please refer to the table on page 22 for details.



# Electrak® 25R tinned powertrack / underfloor busbar system

low noise / clean earth system (green)



Dimensions and technical information p. 18-23

Approved to ASTA Standard 138 and ISO 9001 : 2015  
 Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
 A compact system that can be installed in floor voids as low as 48 mm

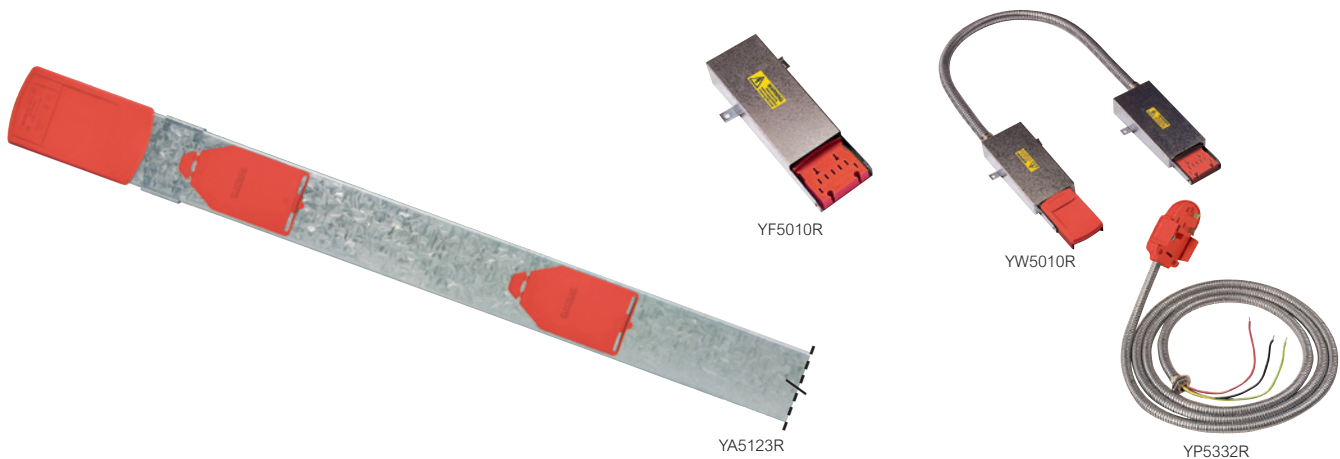
| Pack | Cat. Nos. | Busbar system components   |
|------|-----------|--|
|      |           | <b>63 A low noise / clean earth busbar lengths</b><br>Busbar lengths fit together using the integral connectors on each length<br>Lengths should always be secured using the integral floor fixing brackets<br>300 mm socket centres |
| 1    | JA2123R   | 1.2 m, 4 outlets, 2 floor fixing brackets  |
| 1    | JA2183R   | 1.8 m, 6 outlets, 2 floor fixing brackets  |
| 1    | JA2243R   | 2.4 m, 8 outlets, 2 floor fixing brackets  |
| 1    | JA2363R   | 3.6 m, 12 outlets, 3 floor fixing brackets   |
|      |           | <b>Feed unit</b>   |
| 1    | JF2010R   | With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit   |
|      |           | <b>Flexible interlinks</b>   |
|      |           | Can be used to overcome obstructions or as corners where required  |
| 1    | JW2000R   | Excluding cables and conduit   |
| 1    | JW2010R   | 1.2 m flexible metal conduit   |
| 1    | JW2020R   | 2.4 m flexible metal conduit   |
|      |           | <b>Special fixing brackets</b>   |
|      |           | Required when busbar is raised off surface level<br>Brackets raise the system by 21 mm and should be spaced 600 mm apart   |
| 1    | DZ1210    | For fitting under lengths and feed units   |
| 1    | DZ1230    | For fitting under integral connectors  |

| Pack | Cat. Nos. | Tap-off units   |
|------|-----------|---|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit <sup>1</sup><br>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the busbar run is protected by a protective device not exceeding 32 A |
|      |           | <b>32 A unfused - 543-7 high integrity</b><br>20 mm Ø, CE, L, N, PE (4 mm <sup>2</sup> )  |
| 1    | JP2332R   | 3 m   |
| 1    | JP2532R   | 5 m   |
|      |           | <b>13 A fused - 543-7 high integrity</b><br>20 mm Ø, CE, L, N, PE (4 mm <sup>2</sup> )  |
| 1    | JP2314R   | 3 m   |
| 1    | JP2514R   | 5 m   |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
 For alternative wiring solutions, contact us on +44 (0) 370 608 9020

# Electrak® 28R tinned powertrack / underfloor busbar system

## auxiliary earth system (red)



 Dimensions and technical information p. 18-23

Approved to ASTA Standard 138 and ISO 9001 : 2015  
 Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2018  
 A compact system that can be installed in floor voids as low as 48 mm

| Pack | Cat. Nos. | Busbar system components   |
|------|-----------|--|
|      |           | <b>63 A auxiliary earth busbar lengths</b><br>Busbar lengths fit together using the integral connectors on each length<br>Lengths should always be secured using the integral floor fixing brackets<br>300 mm socket centres |
| 1    | YA5123R   | 1.2 m, 4 outlets, 2 floor fixing brackets  |
| 1    | YA5183R   | 1.8 m, 6 outlets, 2 floor fixing brackets  |
| 1    | YA5243R   | 2.4 m, 8 outlets, 2 floor fixing brackets  |
| 1    | YA5363R   | 3.6 m, 12 outlets, 3 floor fixing brackets   |
|      |           | <b>Feed unit</b><br>With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit   |
| 1    | YF5010R   |  |
|      |           | <b>Flexible interlinks</b><br>Can be used to overcome obstructions or as corners where required  |
| 1    | YW5000R   | Excluding cables and conduit   |
| 1    | YW5010R   | 1.2 m flexible metal conduit   |
| 1    | YW5020R   | 2.4 m flexible metal conduit   |
|      |           | <b>Special fixing brackets</b><br>Required when busbar is raised off surface level<br>Brackets raise the system by 21 mm and should be spaced 600 mm apart   |
| 1    | DZ1210    | For fitting under lengths and feed units   |
| 1    | DZ1230    | For fitting under integral connectors  |

| Pack | Cat. Nos. | Tap-off units   |
|------|-----------|---|
|      |           | Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit <sup>1</sup><br>Tap-off units in excess of 3 m should only be used if they contain a fuse or if the busbar run is protected by a protective device not exceeding 32 A |
|      |           | <b>32 A unfused - 543-7 high integrity</b><br>20 mm Ø, L, N, PE (4 mm <sup>2</sup> )  |
| 1    | YP5332R   | 3 m   |
| 1    | YP5532R   | 5 m   |
|      |           | <b>13 A fused - 543-7 high integrity</b><br>20 mm Ø, L, N, PE (4 mm <sup>2</sup> )  |
| 1    | YP5314R   | 3 m   |
| 1    | YP5514R   | 5 m   |

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
 For alternative wiring solutions, contact us on +44 (0) 370 608 9020

# Electrak® powertrack / underfloor busbar system

## design and installation

### General installation notes

Electrak powertrack is a compact system that can be installed in floor voids as low as 48 mm

Feed units are provided with one or two 25 mm diameter holes suitable for MICC, armoured cables or single core cables in conduit  
Track lengths connect together and to feed units using the integral connectors on each length

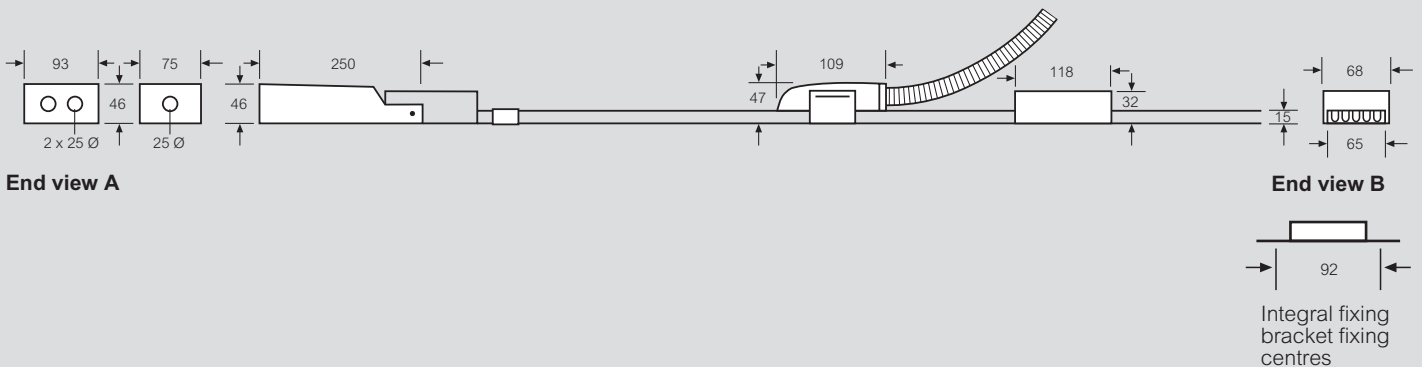
Lengths should always be secured using the integral floor fixing brackets ; three on the 3.6 m length and two on 2.4 m, 1.8 m or 1.2 m lengths

Access to power is provided along the busbar length by simply plugging tap-off units into shuttered socket outlets. These tap-off units feed all types of conventional floor service outlet boxes or feed workstations directly through the floor via insulated conductors contained in flexible metal or VO rated nylon conduit. When connecting tap-offs directly through the floor via grommet outlets to workstations care must be taken to ensure that the tap-off length is adequate

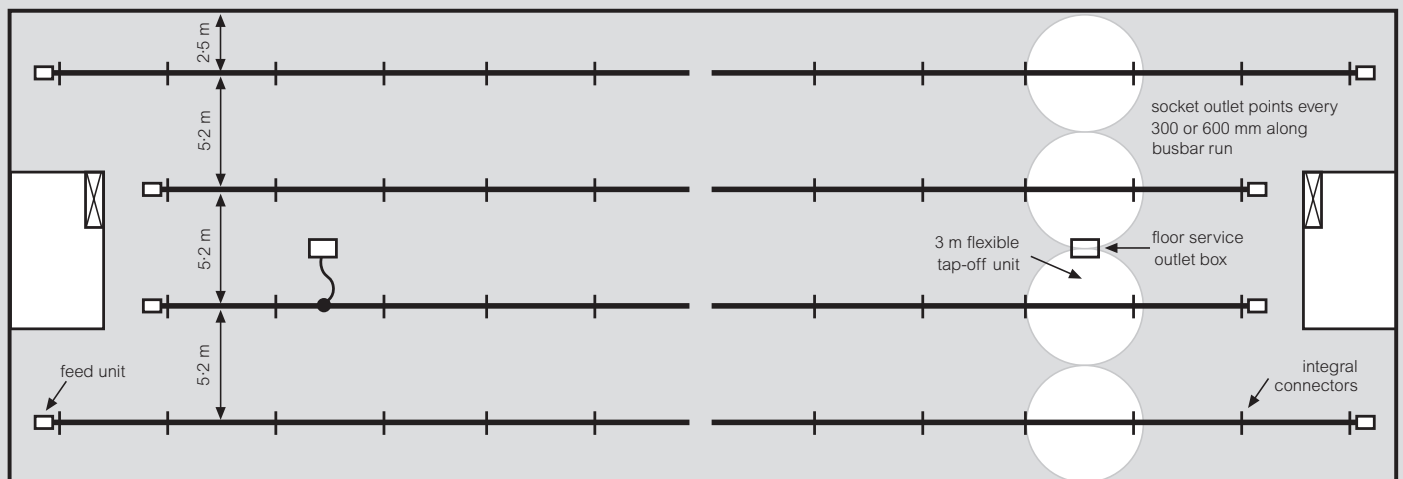
The dual system has both standard and low noise / clean earth systems incorporated. As well as dual tap-offs, both standard and low noise / clean earth tap-offs can be plugged into any socket outlet along the busbar length. The dual tap-off incorporates both standard and low noise cables

Optimum layout flexibility is achieved by positioning busbar lengths a maximum of 5.2 m apart and 2.5 m from the wall, and by connecting the 3 m tap-off units to floor outlet boxes. This means every part of the floor area can be served. Flexible interlinks can be used to overcome obstructions or used as corners if required

### Dimensions



### Example floor layout



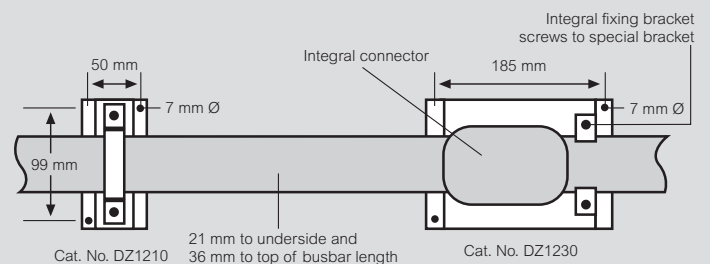
All dimensions (mm) are nominal

### Special fixing brackets

Electrak special fixing brackets are available to raise the system by 21 mm. Ensure brackets are spaced 600 mm apart and always have support under the integral connectors and feed units. Failure to do so may undermine the integrity of the system

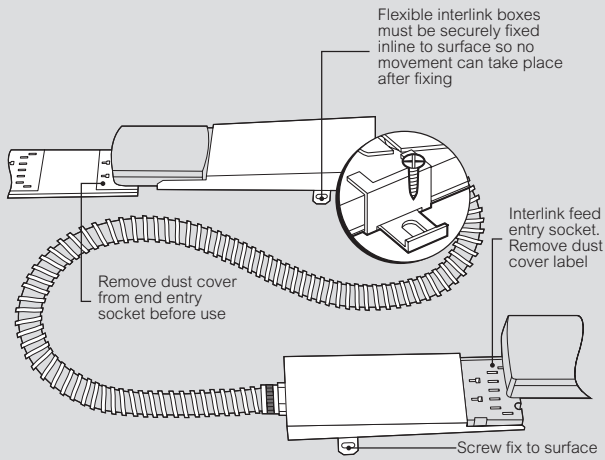
Cat. No. DZ1210 raised off-floor fixing brackets are spaced at 600 mm centres along the busbar run. Also use bottom half of bracket under feed unit and flexible interlink

Cat. No. DZ1230 raised off-floor fixing brackets are always used under integral connectors. Busbar is secured to raised brackets using the integral fixing bracket

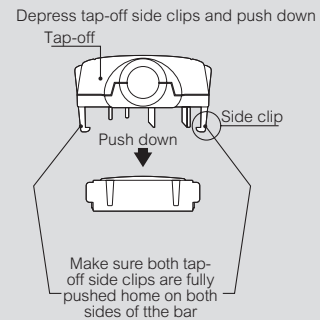


■ **Product configuration**

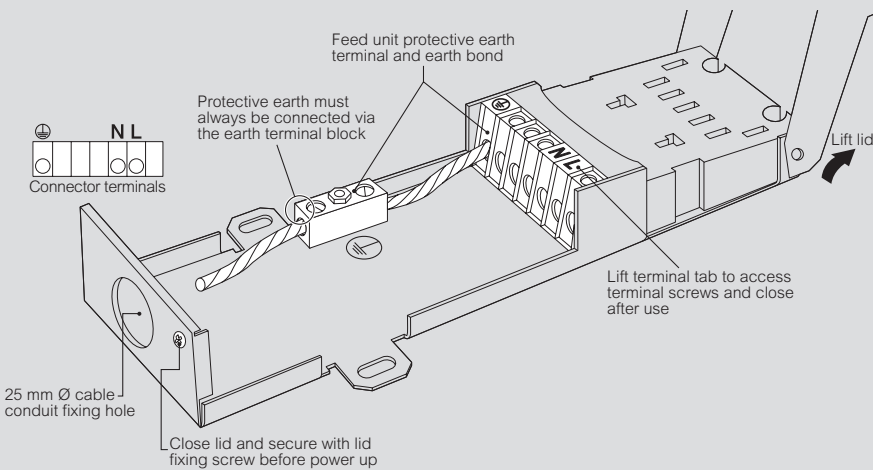
**Flexible interlink**



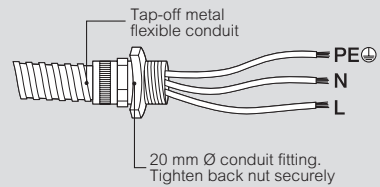
**Tap-off connection**



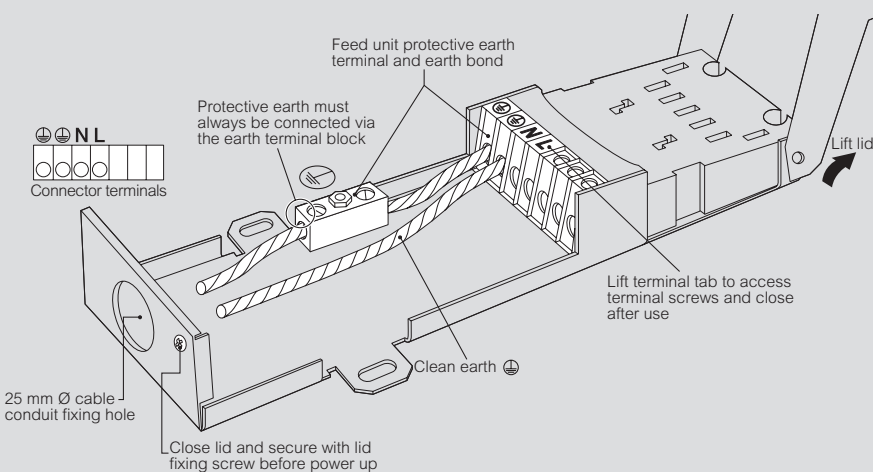
**Feed unit (Cat. No. DF1010) Sub-cabling**



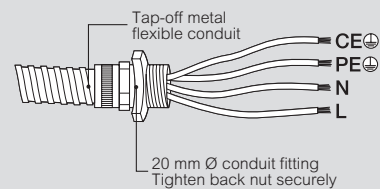
**Tap-off connection**



**Feed unit (Cat. No. JF2010 and JF2010R) Sub-cabling**



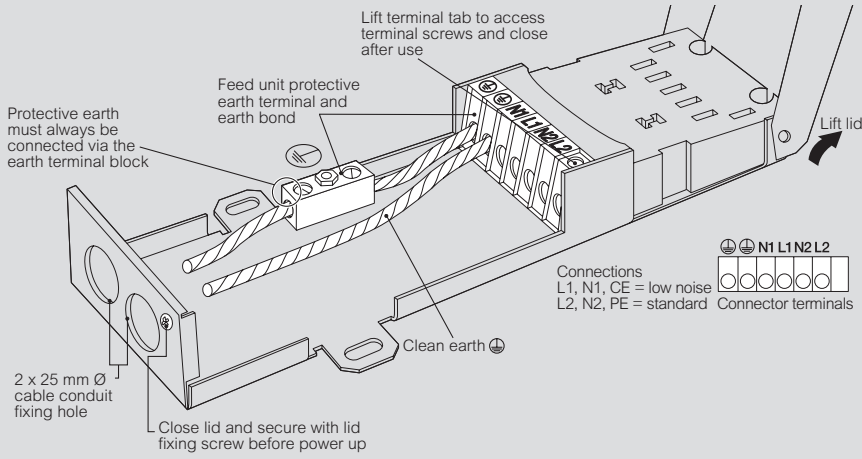
**Tap-off connection**



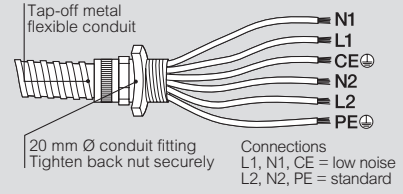
All dimensions (mm) are nominal

**Product configuration (continued)**

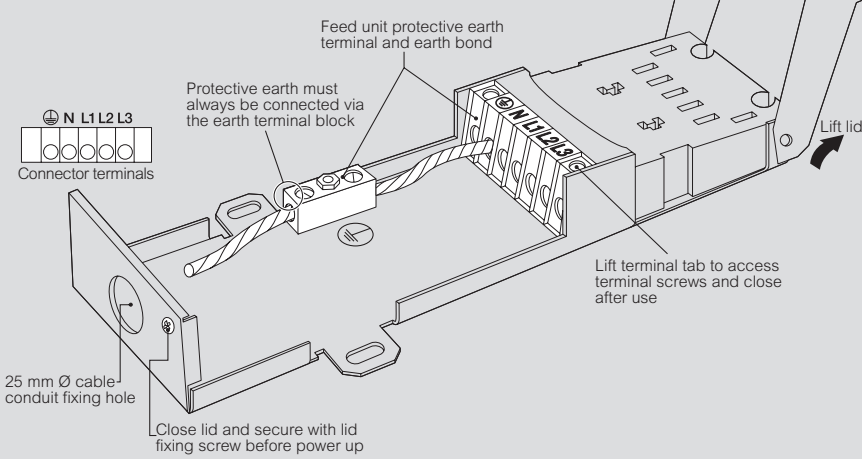
**Feed unit (Cat. No. KF3010) Sub-cabling**



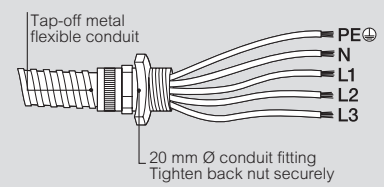
**Dual tap-off connection (dark green)**



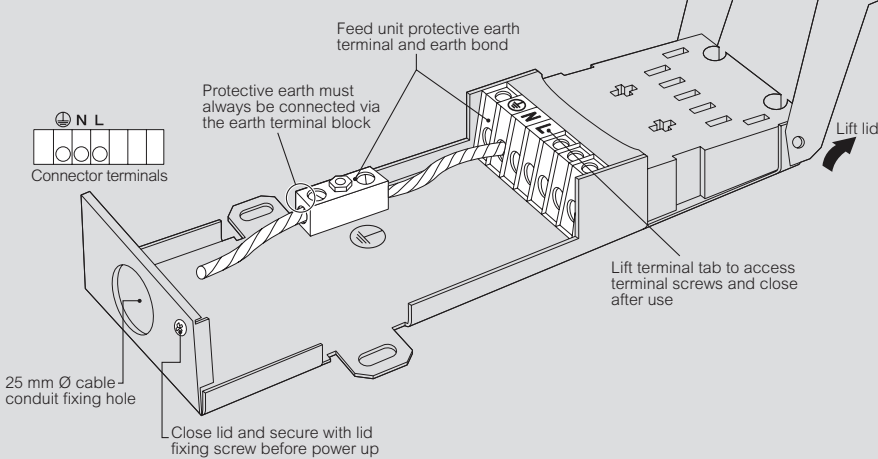
**Feed unit (Cat. No. NF4010) Sub-cabling**



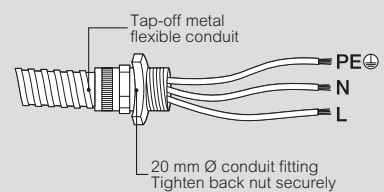
**3 phase tap-off connection**



**Feed unit (Cat. No. YF5010 and YF5010R) Sub-cabling**



**Tap-off connection**

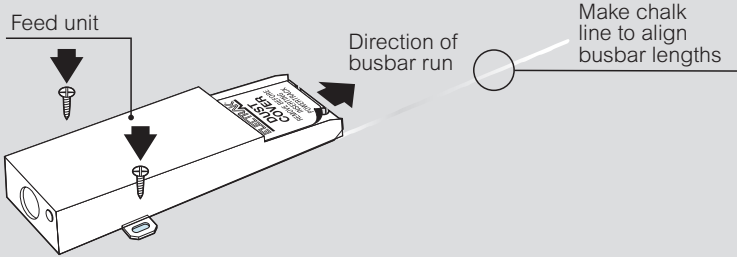


All dimensions (mm) are nominal

# Electrak® powertrack / underfloor busbar system

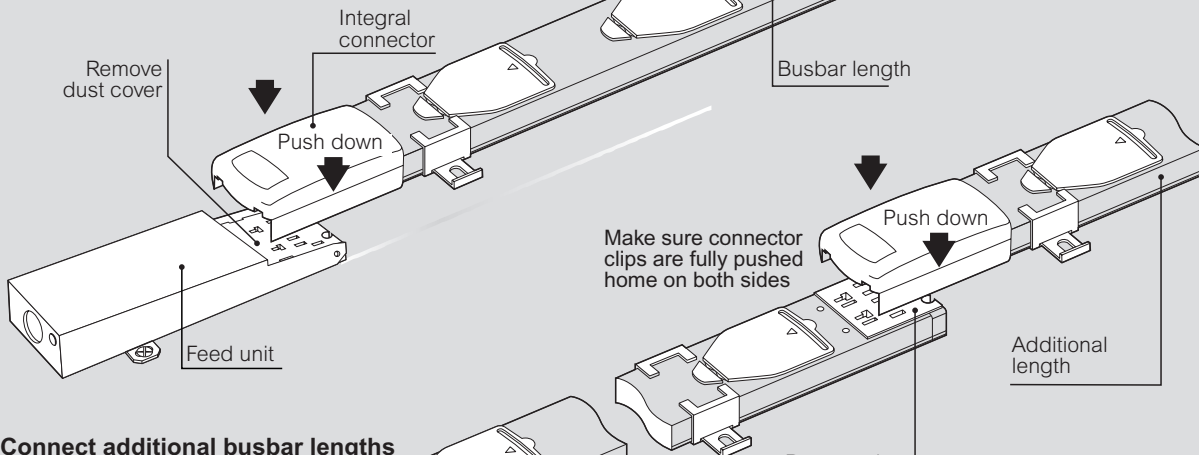
installation (continued)

## 1 Fix feed unit to surface

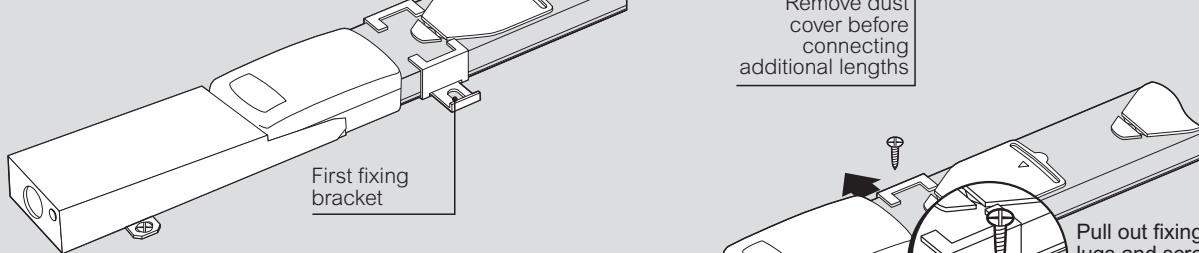


All integral fixing brackets must be fixed to surface at 1.2 m fixing centres from first bracket on each busbar length

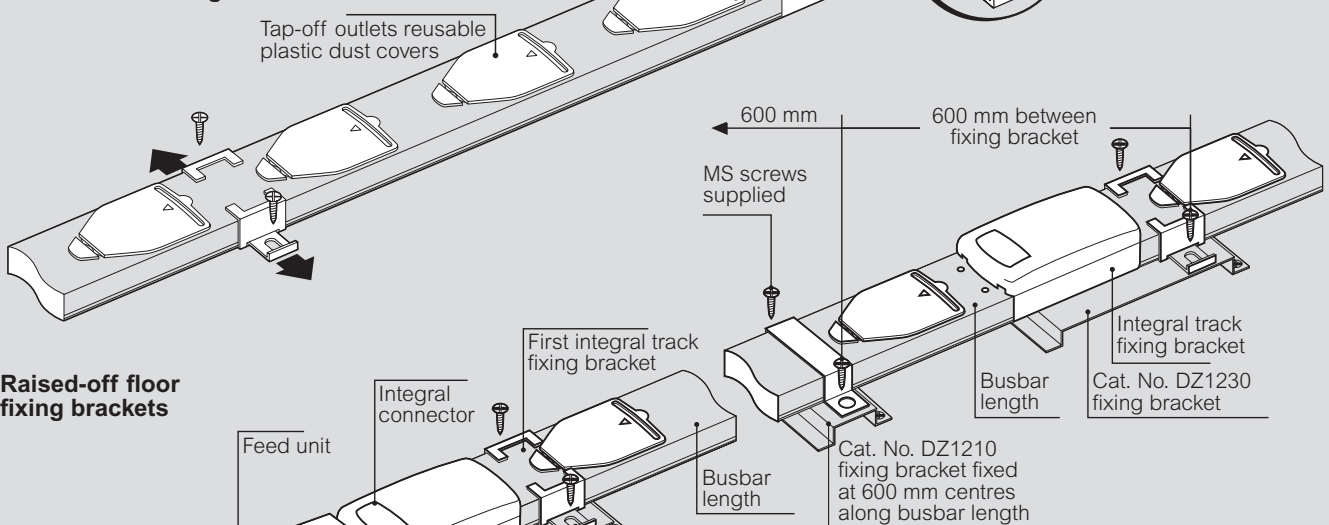
## 2 Connect busbar length to feed unit



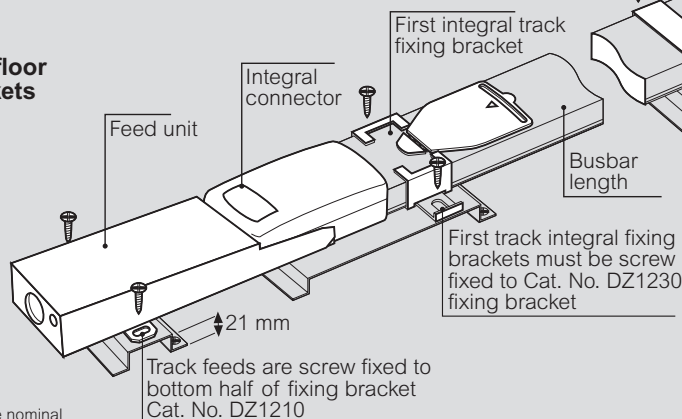
## 3 Connect additional busbar lengths



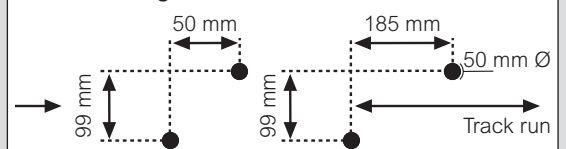
## 4 Secure busbar lengths to surface



## 5 Raised-off floor fixing brackets



### Bracket fixing dimensions to surface



All dimensions (mm) are nominal

### Standards



Approved to ASTA Standard 138  
 BS EN 61534-22 : 2014  
 and IEC 61534-22 : 2014  
 Manufactured within an approved ISO 9001 : 2015 and ISO 14001 : 2015 facility  
 Assessed Quality Assurance Certificate No. 2029  
 Electrak powertrack / underfloor busbar fully complies with the requirements of BS 7671 : 2018

### Classifications according to BS 61534-22 : 2014

|              |                                 |  |
|--------------|---------------------------------|--|
| <b>7.1</b>   | Resistance to impact            | Medium impact – 5J   |
| <b>7.2.2</b> | Connection                      | Tap-off is intended to be connected/disconnected when the system is energised but without a load connected |
| <b>7.3</b>   | Degree of protection            | IP40   |
| <b>7.4</b>   | Degree of pollution             | Pollution degree 2   |
| <b>7.5</b>   | Rated impulse withstand voltage | Category III - 4kV   |
| <b>7.101</b> | Type of floor treatment         | Dry treatment of floor   |
| <b>7.102</b> | Intended location               | Underfloor powertrack system   |

### Ambient temperature rating factors

The current carrying capacity for a powertrack / underfloor busbar (In) is affected by the ambient temperature  
 For Electrak powertrack / underfloor busbar the ambient rating factor K $\alpha$  is equal to 1 for ambient temperatures up to and including 35° C

$$I_z = K\alpha I_n$$

Where :

**I<sub>z</sub>** = effective current carrying capacity for continuous service under particular installation conditions

**K $\alpha$**  = ambient temperature factor

**I<sub>n</sub>** = nominal current carrying capacity

For ambient temperatures exceeding 35° C the values of K $\alpha$  and I<sub>z</sub> are given in the following tables

| Powertrack / underfloor busbar system |      |      |      |      |      |      |      |
|---------------------------------------|------|------|------|------|------|------|------|
| Ambient                               | 20°C | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
| <b>K<math>\alpha</math></b>           | 1    |      |      | 0.95 | 0.85 | 0.80 |      |
| <b>I<sub>z</sub></b>                  | 63 A |      |      | 59 A | 53 A | 50 A |      |

| 32 A unfused tap-off (using thermosetting 90°C cables) |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|
| Ambient  | 20°C | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
| <b>K<math>\alpha</math></b>                            | 1    |      |      | 0.95 | 0.85 | 0.80 |      |
| <b>I<sub>z</sub></b>                                   | 32 A |      |      | 30 A | 27 A | 25 A |      |

| 13 A fused tap-off (using 2.5 mm <sup>2</sup> thermosetting 90°C cables) |      |      |      |      |      |      |      |
|--|------|------|------|------|------|------|------|
| Ambient  | 20°C | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
| <b>K<math>\alpha</math></b>  | 1    |      |      |      |      |      |      |
| <b>I<sub>z</sub></b>   | 13 A |      |      |      |      |      |      |

### References :

BS 7671 : 2018

### Earth fault loop impedance

BS 7671 : 2018 requires accurate determination of the total earth loop impedance, which must be sufficiently low to allow the protective device to operate within the specified time, which for socket outlets is 0.4 seconds. The values relevant to Electrak powertrack / underfloor busbar for calculating the earth fault loop impedance are shown in the electrical test data table, see opposite

### Durability

Electrak systems are superbly designed and extremely robust. They can be expected to stand up to all normal site conditions. Electrak powertrack / underfloor busbar has been short circuit strength tested by ASTA

### Installations with high protective conductor currents

All unfused tap-offs comply with Regulation 543.7 without the need for additional earth conductors. Regulation 543.7.1.203 (ii) states "a single copper protective conductor having a cross-sectional area of not less than 4 mm<sup>2</sup>, complying with the requirements of Regulations 543.2 and 543.3, the protective conductor being enclosed to provide additional protection against mechanical damage, for example, within a flexible conduit"

For installations with high protective conductor currents requiring fused tap-offs, a 543.7 compliant tap-off must be used. Normally fused tap-offs incorporate 1.5 mm<sup>2</sup> conductors, however in our fused 543.7 tap-offs, the 1.5 mm<sup>2</sup> earth conductor is replaced with a 4 mm<sup>2</sup> conductor and are therefore compliant with Section 543.7.1.203 (ii)

### 32 A tap-off unit

The 3 m 32 A tap-off unit comprises an unfused tap-off with 2.6 m of flexible metal conduit with integral 4 mm<sup>2</sup> LSOH conductors

These units are designed to comply with Regulation 543.7.1.203 (ii) of the IET Wiring Regulations by virtue of the following :

- maximum length of cable is 3 m
- it is factory assembled and fully tested item with cable installed in high quality flexible conduit

Fault condition protection for the tap-off assembly and the floor box socket outlets is delivered by the circuit protection device  
 Disconnection time for socket outlets is 0.4 seconds (Regulation 411.3.2.2). The Electrak system meets this requirement

Tap-off units in excess of 3 m should only be used if they contain a fuse or the busbar run is protected by a protective device not exceeding 32 A



| Volt drops (live and neutral) |            |
|-------------------------------|------------|
| Busbars                       | 3.0 mV/A/m |
| Cable connector               | 0.4 mV/A   |
| Integral connector            | 0.4 mV/A   |
| 32 A tap-off                  | 0.4 mV/A   |
| + 4 mm <sup>2</sup> cable     | 11 mV/A/m  |
| Flexible corner assembly      | 1.5 mV/A   |
| + 10 mm <sup>2</sup> cable    | 4.0 mV/A/m |

| Mechanical data                                     | E24 – E28           | E28R                |
|---|---------------------|---------------------|
| Number of conductors                                | 3-6                 | 3                   |
| Busbar conductor cross sectional area               | 13 mm <sup>2</sup>  | 13 mm <sup>2</sup>  |
| Housing cross sectional area (copper equivalent)    | 13 mm <sup>2</sup>  | 13 mm <sup>2</sup>  |
| Cable terminal capacity                             | 16 mm <sup>2</sup>  | 16 mm <sup>2</sup>  |
| Tap-off cable 32 A                                  | 4 mm <sup>2</sup>   | 4 mm <sup>2</sup>   |
| Tap-off cable 13 A fused                            | 1.5 mm <sup>2</sup> | 2.5 mm <sup>2</sup> |
| Tap-off conduit, up to 4 conductors                 | 16 mmØ              | 20 mmØ              |
| Tap-off conduit, 5 and 6 conductors                 | 20 mm <sup>2</sup>  | N/A                 |
| Flexible corner cable (tri-rated, high temperature) | 10 mm <sup>2</sup>  | 10 mm <sup>2</sup>  |
| Flexible corner conduit                             | 25 mmØ              | 25 mmØ              |
| IP rating   | 40                  | 40                  |

| Material specifications                |  |
|--|--|
| Housing - busbar lengths               | Galvanised steel, natural finish                                   |
| Busbars                                | High conductivity copper<br>(Tinned version is electro-tin plated) |
| Busbar insulator                       | PTFE   |
| Integral connectors / Tap-off outlets  | Flame retardant polycarbonate                                      |
| Tap-off outlet entry shutter           | Acetal   |
| Tap-off housing                        | Flame retardant polycarbonate                                      |
| Integral connector blades              | Copper (Tinned version is plated)                                  |
| Tap-off blades                         | Copper (Tinned version is plated)                                  |
| Tap-off/flexible corner conduit, metal | Electro-galvanised steel   |
| Tap-off cable                          | LSOH to BS EN 50525  |
| Flexible interlink cable               | Tri-rated to BS 6231   |
| Feed box/flexible interlink boxes      | Galvanised steel   |
| Feed connector terminals/earth block   | Brass (Tinned version is plated)                                   |
| Fixing brackets                        | Galvanised steel   |
| 13 A tap-off, fuse                     | To BS 1362, ASTA approved  |

| Earth fault loop impedance              |          |
|---|----------|
| Phase busbar                            | 1.5 mΩ/m |
| Earth busbar                            | 1.5 mΩ/m |
| Earth housing                           | 1.1 mΩ/m |
| Earth busbar and housing                | 0.8 mΩ/m |
| Cable connector                         | 0.4 mΩ   |
| Integral connector                      | 0.6 mΩ   |
| 32 A tap-off                            | 0.6 mΩ   |
| + 4 mm <sup>2</sup> cable               | 11 mΩ/m  |
| Flexible corner assembly                | 1.5 mΩ   |
| + 10 mm <sup>2</sup> cable              | 4.0 mΩ/m |
| Rated conditional short-circuit current | 16 KA    |
| Ambient temperature                     | 25°C     |

| Electrical test data                    |            |
|---|------------|
| Rated current                           | 63 A       |
| Rated voltage                           | 230/400 V~ |
| Frequency                               | 50 Hz      |
| Conductor resistance - live and neutral | 3.0 mΩ/m   |
| Conductor impedance                     | 1.5 mΩ/m   |

# FLOOR BOXES

choice, flexibility &

easy installation



Raised access floor boxes and slab boxes offer complete versatility.

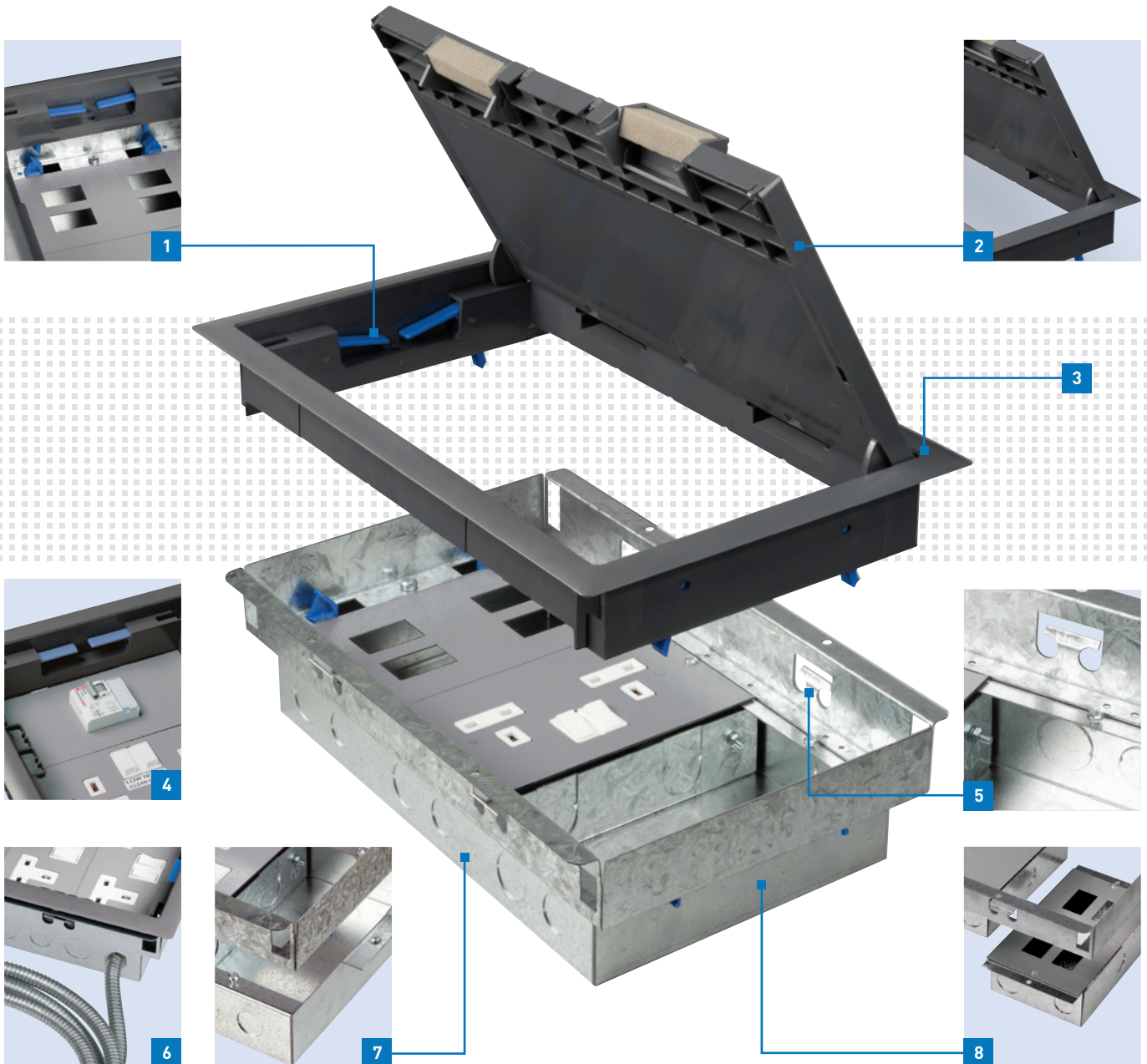
Floor boxes are available pre-wired with powertrack tap-off, or supplied empty (unassembled), with a choice of single or separate compartment bases and three depth options. With a vast selection of power and data plates available, boxes can be tailored to the specific requirements of each office installation.



NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Photos are only illustrative.

Available in 2, 3 and 4 compartments and with a choice of three depths, Electrak floor boxes have been developed with a host of special features:

- Available pre-wired with tap-off or supplied unassembled
- A wide selection of power and data plates, including RCD options
- Single or separate compartment bases for ease of data cabling
- Rapid installation and fast ratchet mechanism which adjusts to floor finish thickness



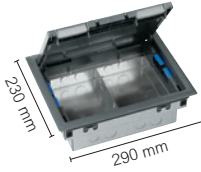
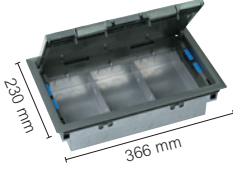
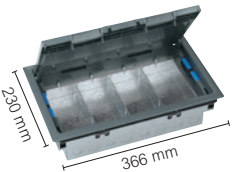


- 1** Rapid fit /remove mechanism adjusts for flooring thickness
- 2** Quick-fit, reversible lid for rapid installation
- 3** Durable ABS trim and lid surround
- 4** Various RCD protection options available

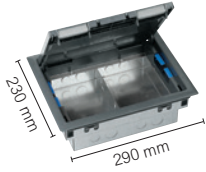
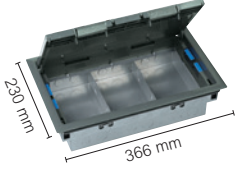
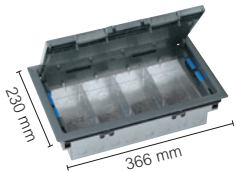




















- 5** Rapid fit push lock secures base in floor aperture
- 6** Available pre-wired with tap-off
- 7** Three depth options: 75mm, 85mm, 110mm
- 8** Single or separate compartment bases

NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Photos are only illustrative.

## access floor service outlet and slab mounted floor boxes

### empty boxes and accessory plates

|   |   | 2 compartment   |               | 3 compartment  |               | 4 compartment   |  |
|---|---|---|---------------|--|---------------|---|--|
| To configure boxes as required, select :<br>1. Box depth<br>2. Number of compartments required<br>3. Desired accessory plates |   |  |               |  |               |  |  |
| Empty boxes   | Example   | 100 mm width plates   |               | 100 mm width plates  |               | 75 mm width plates  |  |
| Single base – 75 mm depth   |    | CR2001  |               | CR011  |               | CR4001  |  |
| Single base – 85 mm depth (standard box)  |   | CR2002  |               | CR012  |               | CR4002  |  |
| Single base – 110 mm depth  |   | CR2003  |               | CR013  |               | CR4003  |  |
| Separate compartment base – 75 mm depth   |  | CR2004  |               | CR014  |               | CR4004  |  |
| Separate compartment base – 85 mm depth   |   | CR2005  |               | CR015  |               | CR4005  |  |
| Separate compartment base – 110 mm depth  |   | CR2006  |               | CR016  |               | CR4006  |  |
| Slab boxes  |   | 1 compartment   | 2 compartment | 3 compartment  | 4 compartment |   |  |
| Fix directly onto floor slab (supplied empty)   |   | CR5102  | CR5202        | CR5302   | CR5402        |   |  |

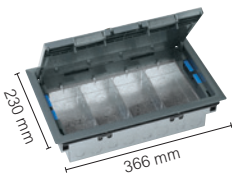









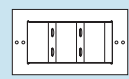

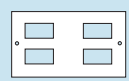
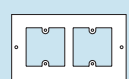
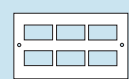
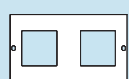
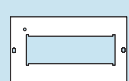
|  |   |   | 2 compartment   | 3 compartment  | 4 compartment   |
|--|---|---|---|--|---|
|  | To configure boxes as required, select :<br>1. Box depth<br>2. Number of compartments required<br>3. Desired accessory plates |   |  |  |  |
|  | Accessory plates  |   | For 1, 2 and 3 compartment boxes  |  | For 4 compartment boxes   |
|  | Blank plate   |    | CR020   |  | CR4100  |
|  | 2 gang switched socket outlet   |    | CR022   |  | CR4101  |
|  | 2 gang switched socket outlet, low noise / clean earth  |    | CR023   |  | CR4102  |
|  | 2 gang non-standard switched socket outlet  |    | CR027   |  | CR4103  |
|  | 2 gang unswitched socket outlet   |    | CR029   |  | CR4104  |
|  | 3 gang unswitched socket outlet   |  | CR030   |  | CR4195  |
|  | 3 gang unswitched socket outlet, low noise / clean earth  |  | CR044   |  | CR4118  |
|  | 2 gang RCD socket outlet  |  | CR036   |  | CR4111  |
|  | 2 gang RCD socket outlet, low noise / clean earth   |  | CR043   |  | CR4117  |
|  | 2 gang RCD shallow socket outlet specifically for 75 mm deep floor boxes  |  | CR046   |  | CR4121  |
|  | 2 gang RCD shallow socket outlet low noise / clean earth specifically for 75 mm deep floor boxes                              |  | CR053   |  | CR4127  |
|  | Punched plate for 2 x 1 gang accessories (60.3 mm fixing centres)   |  | CR026   |  | -   |
|  | Punched plate for 2 gang accessories (120.6 mm fixing centres)  |  | CR028   |  | -   |
|  | Angled punched plate for 4 x RJ45 sockets (37 mm x 22 mm cut-outs)  |  | CR042   |  | CR4115  |
|  | 2 x LJ2 accessory plate (50 mm fixing centres)  |  | CR031   |  | CR4106  |
|  | 4 x BNC connector plate   |  | CR033   |  | CR4108  |
|  | 4 x Data / telecoms plate (37 mm x 22 mm cut-outs)  |  | CR024   |  | CR4112  |
|  | 6 x Data / telecoms plate (37 mm x 22 mm cut-outs)  |  | CR025   |  | CR4113  |
|  | Punched plate for 2 x 50 mm x 50 mm Euro Module   |  | CR035   |  | -   |
|  | Punched plate for 3 x 45 mm x 45 mm Arteor modules  |  | CR070   |  | CR4200  |

## access floor pre-wired service outlet boxes

### and accessory plates

| Pre-wired service outlet boxes with Electrak tap-offs              |  |  |  |                                       |                                       |        |
|--|--|--|--|---------------------------------------|---------------------------------------|--------|
| 1. Select powertrack tap-off and desired configuration             |  |  |  |                                       |                                       |        |
| 2. Select additional accessory plates (if required)                |  |  |  |                                       |                                       |        |
| 3 compartment  |  | Includes 1 x twin switched socket outlet | Includes 2 x twin switched socket outlet           | Includes 1 x 2 gang RCD socket outlet | Includes 2 x 2 gang RCD socket outlet |        |
|  | <b>Electrak 24 - standard tap-off</b>                |  |  |                                       |                                       |        |
|  |  | DP1332 - 3 m                             | CR100  | CR102                                 | CR100R                                | CR102R |
|  |  | DP1532 - 5 m                             | CR101  | CR103                                 | CR101R                                | CR103R |
|  | <b>Electrak 25 - low noise / clean earth tap-off</b> |  |  |                                       |                                       |        |
|  |  | JP2332 - 3 m                             | CR110  | CR112                                 | CR110R                                | CR112R |
|  |  | JP2532 - 5 m                             | CR111  | CR113                                 | CR111R                                | CR113R |
|  | <b>Electrak 28 - auxiliary earth tap-off</b>         |  |  |                                       |                                       |        |
|  |  | YP5332 - 3 m                             | CR104  | CR106                                 | CR104R                                | CR106R |
|  |  | YP5532 - 5 m                             | CR105  | CR107                                 | CR105R                                | CR107R |
|  | <b>Additional plates for 3 compartment boxes</b>     |  |  |                                       |                                       |        |
| Blank plate  |  | CR020                                    | 2 x LJ2 accessory plate (50 mm fixing centres)     |                                       | CR031                                 |        |
| Punched plate for 2 x 1 gang accessories (60.3 mm fixing centres)  |  | CR026                                    | 4 x BNC connector plate                            |                                       | CR033                                 |        |
| Punched plate for 2 gang accessories (120.6 mm fixing centres)     |  | CR028                                    | 4 x Data / telecoms plate (37 mm x 22 mm cut-outs) |                                       | CR024                                 |        |
| Angled punched plate for 4 x RJ45 sockets (37 mm x 22 mm cut-outs) |  | CR042                                    | 6 x Data / telecoms plate (37 mm x 22 mm cut-outs) |                                       | CR025                                 |        |
| 100 mm plate for 2 x 50 mm x 50 mm Euro Module                     |  | CR035                                    |  |                                       |                                       |        |
| 100 mm plate for 3 x 45 mm x 45 mm Arteor modules                  |  | CR070                                    |  |                                       |                                       |        |

NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Product drawings are only illustrative.

| 4 compartment   |   |              | Includes 1 x twin switched socket outlet  | Includes 2 x twin switched socket outlet  | Includes 1 x 2 gang RCD socket outlet   | Includes 2 x 2 gang RCD socket outlet   | Modular RCD protecting 2 x twin switched socket outlets and 1 spare compartment     |
|---|---|--------------|---|---|---|---|---|
|  | <b>Electrak 24 - standard tap-off</b>   |              |  |  |    |  |  |
|   |    | DP1332 - 3 m | CR120   | CR122   | CR120R  | CR122R  | CR4402  |
|   |   | DP1532 - 5 m | CR121   | CR123   | CR121R  | CR123R  | CR4403  |
|   | <b>Electrak 25 - low noise / clean earth tap-off</b>                                |              |   |   |   |   |   |
|   |    | JP2332 - 3 m | CR130   | CR132   | CR130R  | CR132R  | CR4412  |
|   |   | JP2532 - 5 m | CR131   | CR133   | CR131R  | CR133R  | CR4413  |
|   | <b>Electrak 28 - auxiliary earth tap-off</b>  |              |   |   |   |   |   |
|   |  | YP5332 - 3 m | CR124   | CR126   | CR124R  | CR126R  | CR4406  |
|   |   | YP5532 - 5 m | CR125   | CR127   | CR125R  | CR127R  | CR4407  |
|   | <b>Additional plates for 4 compartment boxes</b>                                    |              |   |   |   |   |   |
| Blank plate   |  | CR4100       | 4 x BNC connector plate   |   |  | CR4108  |   |
| Angled punched plate for 4 x RJ45 sockets (37 mm x 22 mm cut-outs)                |  | CR4115       | 4 x Data / telecoms plate (37 mm x 22 mm cut-outs)                                |   |  | CR4112  |   |
| 2 x LJ2 accessory plate (50 mm fixing centres)                                    |  | CR4106       | 6 x Data / telecoms plate (37 mm x 22 mm cut-outs)                                |   |  | CR4113  |   |
| 100 mm plate for 2 x 50 mm x 50 mm Euro Module                                    |  | CR4110       |   |   |   |   |   |
| 100 mm plate for 3 x 45 mm x 45 mm Arteor modules                                 |  | CR4200       |   |   |   |   |   |

NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Product drawings are only illustrative.

## access floor service outlet boxes

### empty boxes



Selection charts **p. 26**  
Dimensions and technical information **p. 33**

Lid and trim mouldings are precision engineered from hard wearing durable ABS. Lid is reinforced with a galvanised mild steel plate. Mounting frame and box base - 0.9 mm thick galvanised steel. Each compartment has 2 entries for 20 mm and 2 entries for 25 mm flexible conduits. Grey mouldings. Alternative colours available to special order. Grey plates. 2, 3 and 4 compartment boxes are also available with separate individual compartment base units for convenient offsite pre-wiring. Supplied in parts or fully assembled and configured to customer specification. Conform to BS EN 61534-22.

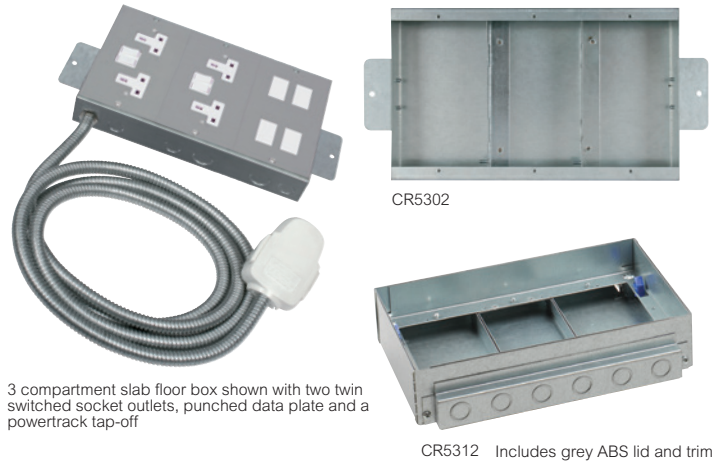
| Pack | Cat. Nos. | <b>2 compartment floor boxes</b>         |
|------|-----------|--|
|      |           | <b>Empty boxes</b>                       |
|      |           | <b>100 mm compartment widths</b>         |
| 1    | CR2001    | Single base - 75 mm depth                |
| 1    | CR2002    | Single base - 85 mm depth (standard box) |
| 1    | CR2003    | Single base - 110 mm depth               |
| 1    | CR2004    | Separate compartment base - 75 mm depth  |
| 1    | CR2005    | Separate compartment base - 85 mm depth  |
| 1    | CR2006    | Separate compartment base - 110 mm depth |

| Pack | Cat. Nos. | <b>3 compartment floor boxes</b>         |
|------|-----------|--|
|      |           | <b>Empty boxes</b>                       |
|      |           | <b>100 mm compartment widths</b>         |
| 1    | CR011     | Single base - 75 mm depth                |
| 1    | CR012     | Single base - 85 mm depth (standard box) |
| 1    | CR013     | Single base - 110 mm depth               |
| 1    | CR014     | Separate compartment base - 75 mm depth  |
| 1    | CR015     | Separate compartment base - 85 mm depth  |
| 1    | CR016     | Separate compartment base - 110 mm depth |

| Pack | Cat. Nos. | <b>4 compartment floor boxes</b>  |
|------|-----------|---|
|      |           | <b>Empty boxes</b>  |
|      |           | <b>75 mm compartment widths</b>   |
|      |           | NOTE: due to plug entry requirements, 4 x twin socket outlets will not fit into a 4 compartment floor box |
| 1    | CR4001    | Single base - 75 mm depth   |
| 1    | CR4002    | Single base - 85 mm depth (standard box)  |
| 1    | CR4003    | Single base - 110 mm depth  |
| 1    | CR4004    | Separate compartment base - 75 mm depth   |
| 1    | CR4005    | Separate compartment base - 85 mm depth   |
| 1    | CR4006    | Separate compartment base - 110 mm depth  |

## slab and screed mounted floor boxes

### empty boxes



3 compartment slab floor box shown with two twin switched socket outlets, punched data plate and a powertrack tap-off

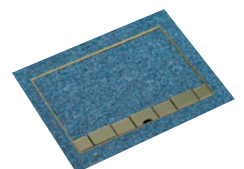
Selection charts **p. 26**  
Dimensions and technical information **p. 33**

Electrak slab floor boxes are an ideal solution for underfloor power and data requirements. Used in conjunction with Electrak floor grommets, slab boxes prevent unwanted access to power and data connections.

| Pack | Cat. Nos. | <b>Slab floor boxes</b>   |
|------|-----------|---|
|      |           | Fixes directly onto floor slab<br>Fast and efficient installation with integrated fixing plates<br>Wide range of power and data accessory plates<br>Manufactured from 0.9 mm thick galvanised steel<br>Each compartment has 2 entries for 20 mm and 2 entries for 25 mm flexible conduits |
|      |           | <b>100 mm compartment widths</b>  |
|      |           | Use plates from the 1, 2 and 3 compartment floor box section <b>p. 26-27</b>  |
| 1    | CR5102    | 1 compartment slab floor box  |
| 1    | CR5202    | 2 compartment slab floor box  |
| 1    | CR5302    | 3 compartment slab floor box  |
|      |           | <b>75 mm compartment widths</b>   |
|      |           | Use plates from the 4 compartment floor box section <b>p. 26-27</b>   |
| 1    | CR5402    | 4 compartment slab floor box  |
|      |           | <b>Screed floor boxes</b>   |
|      |           | 25 mm conduit fed, to suit screed 75 mm to 90 mm deep   |
| 1    | CR5312    | 3 compartment screed floor box  |
| 1    | CR5412    | 4 compartment screed floor box  |

NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Photos are only illustrative.

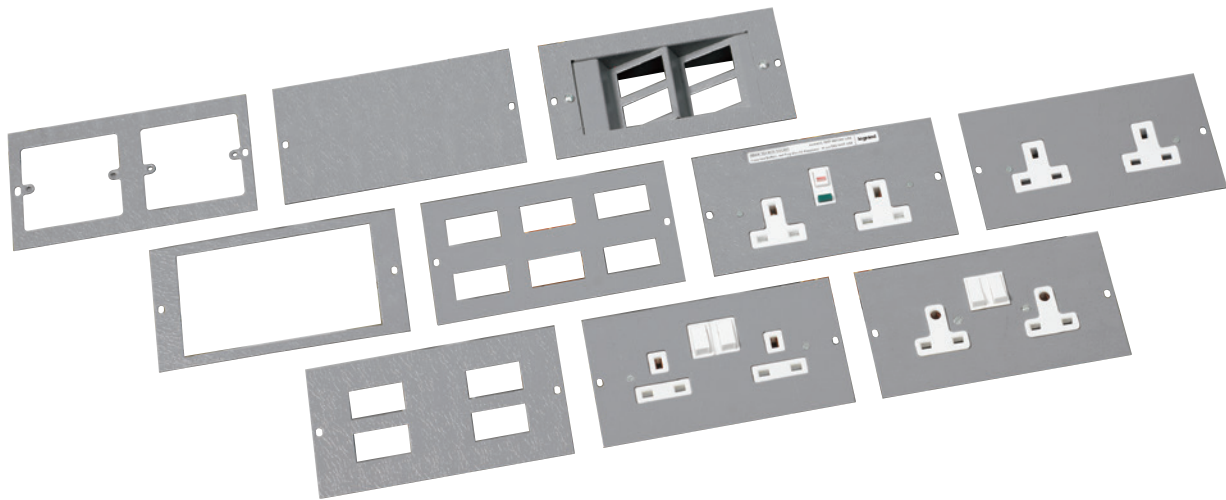
Edge trim boxes, and metal or lockable lids are available to order  
**contact us on +44 (0) 370 608 9020**





## access floor service outlet boxes

### accessory plates and ancillary items



 Selection charts **p. 26-29**  
Dimensions and technical information **p. 33**

Lid and trim mouldings are precision engineered from hard wearing durable ABS. Lid is reinforced with a galvanised mild steel plate  
Mounting frame and box base - 0.9 mm thick galvanised steel  
Each compartment has 2 entries for 20 mm and 2 entries for 25 mm flexible conduits  
Grey mouldings. Alternative colours available to special order. Grey plates  
2, 3 and 4 compartment boxes are also available with separate individual compartment base units for convenient offsite pre-wiring  
Supplied in parts or fully assembled and configured to customer specification  
Conform to BS EN 61534-22

| Pack | Cat. Nos. | 1, 2 and 3 compartment accessory plates  |
|------|-----------|--|
|      |           | <b>100 mm width</b>  |
| 1    | CR020     | Blank plate  |
| 1    | CR022     | 2 gang switched socket outlet  |
| 1    | CR023     | 2 gang switched socket outlet, low noise / clean earth   |
| 1    | CR027     | 2 gang non-standard switched socket outlet   |
| 1    | CR029     | 2 gang unswitched socket outlet  |
| 1    | CR030     | 3 gang unswitched socket outlet  |
| 1    | CR044     | 3 gang unswitched socket outlet, low noise / clean earth   |
| 1    | CR036     | 2 gang RCD socket outlet   |
| 1    | CR043     | 2 gang RCD socket outlet, low noise / clean earth  |
| 1    | CR046     | 100 mm plate – 2 gang RCD switched shallow socket outlet specifically for 75 mm deep floor boxes           |
| 1    | CR053     | 100 mm plate – low noise 2 gang RCD switched shallow socket outlet specifically for 75 mm deep floor boxes |
| 1    | CR026     | Punched plate for 2 x 1 gang accessories (60.3 mm fixing centres)  |
| 1    | CR028     | Punched plate for 2 gang accessories (120.6 mm fixing centres)   |
| 1    | CR042     | Angled punched plate for 4 x RJ45 (37 mm x 22 mm cut-outs)   |
| 1    | CR031     | 2 x LJ2 accessory plate (50 mm fixing centres)   |
| 1    | CR033     | 4 x BNC connector plate  |
| 1    | CR024     | 4 x Data / telecoms plate (37 mm x 22 mm cut-outs)   |
| 1    | CR025     | 6 x Data / telecoms plate (37 mm x 22 mm cut-outs)   |
| 1    | CR035     | 100 mm plate for 2 x 50 mm x 50 mm Euro Module   |
| 1    | CR070     | 100 mm plate for 3 x 45 mm x 45 mm Arteor modules  |

| Pack | Cat. Nos. | 4 compartment accessory plates  |
|------|-----------|---|
|      |           | <b>75 mm compartment widths</b>   |
| 1    | CR4100    | Blank plate   |
| 1    | CR4101    | 2 gang switched socket outlet   |
| 1    | CR4102    | 2 gang switched socket outlet, low noise / clean earth  |
| 1    | CR4103    | 2 gang non-standard switched socket outlet  |
| 1    | CR4104    | 2 gang unswitched socket outlet   |
| 1    | CR4105    | 3 gang unswitched socket outlet   |
| 1    | CR4118    | 3 gang unswitched socket outlet, low noise / clean earth  |
| 1    | CR4111    | 2 gang RCD socket outlet  |
| 1    | CR4117    | 2 gang RCD socket outlet, low noise / clean earth   |
| 1    | CR4121    | 75 mm plate – 2 gang RCD switched shallow socket outlet specifically for 75 mm deep floor boxes           |
| 1    | CR4127    | 75 mm plate – low noise 2 gang RCD switched shallow socket outlet specifically for 75 mm deep floor boxes |
| 1    | CR4115    | Angled punched plate for 4 x RJ45 (37 mm x 22 mm cut-outs)  |
| 1    | CR4106    | 2 x LJ2 accessory plate (50 mm fixing centres)  |
| 1    | CR4108    | 4 x BNC connector plate   |
| 1    | CR4112    | 4 x Data / telecoms plate (37 mm x 22 mm cut-outs)  |
| 1    | CR4113    | 6 x Data / telecoms plate (37 mm x 22 mm cut-outs)  |
| 1    | CR4110    | 75 mm plate for 2 x 50 mm x 50 mm Euromod   |
| 1    | CR4200    | 75 mm plate for 3 x 45 mm x 45 mm Arteor modules  |

| Pack | Cat. Nos. | Ancillary items for service outlet boxes   |
|------|-----------|--|
| 1    | CR0001    | Floor tile cut-out template – 2 compartment  |
| 1    | CR0003    | Floor tile cut-out template – 3 / 4 compartment  |
| 10   | CR0000    | Cable outlet flap  |
| 10   | CR0010    | Cable routers  |
| 50   | CR0011    | Screws for accessory plates  |
| 1    | CR0012    | Pack of 5 keys for use with lockable floor boxes   |
| 1    | CR0021    | Plastic lid and trim for 2 compartment floor box   |
| 1    | CR0022    | Plastic lid and trim for 3 / 4 compartment floor box   |
| 1    | CR0023    | Lockable lid assembly for 2 compartment floor box  |
| 1    | CR0024    | Lockable lid assembly for 3 / 4 compartment floor box  |
| 1    | CR0005    | Mounting frame for vinyl floor. For 2 compartment box<br>Replaces mounting frame attached to base      |
| 1    | CR0006    | Mounting frame for vinyl floor. For 3 / 4 compartment box.<br>Replaces mounting frame attached to base |
| 10   | CR0007    | Floor box lid handle   |
| 1    | CR0020    | Metal lid and trim - replacement for 3 and 4 compartment boxes - powder coated grey                    |

**Electrak tap-offs p. 10-14, 16-17**

# access floor pre-wired service outlet boxes

## 3 and 4 compartment



CR100



CR122

Selection chart **p. 28-29**  
Dimensions and technical information **p. 33**

Electrak floor boxes can be supplied pre-wired to powertrack tap-offs with any variation of sockets, tap-offs, depth or other configuration

| Pack | Cat. Nos. | <b>3 compartment pre-wired boxes with 1 x TSSO</b>              |
|------|-----------|---|
|      |           | <b>100 mm compartment widths</b>                                |
|      |           | Single base – 85 mm depth, pre-wired with :                     |
| 1    | CR100     | 3 m Electrak 24 standard tap-off Cat. No. DP1332                |
| 1    | CR101     | 5 m Electrak 24 standard tap-off Cat. No. DP1532                |
| 1    | CR110     | 3 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2332 |
| 1    | CR111     | 5 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2532 |
| 1    | CR104     | 3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332         |
| 1    | CR105     | 5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532         |

| Pack | Cat. Nos. | <b>3 compartment pre-wired boxes with 2 x TSSO</b>              |
|------|-----------|---|
|      |           | <b>100 mm compartment widths</b>                                |
|      |           | Single base – 85 mm depth, pre-wired with :                     |
| 1    | CR102     | 3 m Electrak 24 standard tap-off Cat. No. DP1332                |
| 1    | CR103     | 5 m Electrak 24 standard tap-off Cat. No. DP1532                |
| 1    | CR112     | 3 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2332 |
| 1    | CR113     | 5 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2532 |
| 1    | CR106     | 3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332         |
| 1    | CR107     | 5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532         |

| Pack | Cat. Nos. | <b>4 compartment pre-wired boxes with 1 x TSSO</b>              |
|------|-----------|---|
|      |           | <b>75 mm compartment widths</b>                                 |
|      |           | Single base – 85 mm depth, pre-wired with :                     |
| 1    | CR120     | 3 m Electrak 24 standard tap-off Cat. No. DP1332                |
| 1    | CR121     | 5 m Electrak 24 standard tap-off Cat. No. DP1532                |
| 1    | CR130     | 3 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2332 |
| 1    | CR131     | 5 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2532 |
| 1    | CR124     | 3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332         |
| 1    | CR125     | 5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532         |

| Pack | Cat. Nos. | <b>4 compartment pre-wired boxes with 2 x TSSO</b>              |
|------|-----------|---|
|      |           | <b>75 mm compartment widths</b>                                 |
|      |           | Single base – 85 mm depth, pre-wired with :                     |
| 1    | CR122     | 3 m Electrak 24 standard tap-off Cat. No. DP1332                |
| 1    | CR123     | 5 m Electrak 24 standard tap-off Cat. No. DP1532                |
| 1    | CR132     | 3 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2332 |
| 1    | CR133     | 5 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2532 |
| 1    | CR126     | 3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332         |
| 1    | CR127     | 5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532         |

Pre-wired floor boxes can be supplied with RCD rather than standard sockets. Add an **R** to the end of the part numbers for an RCD version. For example CR100**R** is a 3 compartment floor box with a twin RCD socket and a DP1332 tap-off

Also available :  
- pre-wired boxes with fused tap-offs  
- shallow or deep versions  
- separate compartment bases  
**contact us on +44 (0) 370 608 9020**



NOTE : Please consult us for different plate options on +44 (0) 370 608 9020. Photos are only illustrative.

## access floor service outlet boxes

with RCD protection



CR4401

 Selection charts **p. 26-29**  
Dimensions and technical information (**opposite**)

Electrak floor boxes are available with various RCD protection options and can be supplied pre-wired to powertrack tap-offs

| Pack   | Cat. Nos. | Floor boxes with RCD protection and 2 x TSSO |
|--|-----------|--|
| 1  | CR4400    | Includes standard sockets                    |
| 1  | CR4401    | Includes low noise sockets                   |
| <b>Boxes contain 1 spare 75 mm width compartment</b>                 |           |  |
| <b>Pre-wired RCD protected floor boxes</b>                           |           |  |
| <b>Boxes contain RCD and 2 x TSSO with 1 spare 75 mm compartment</b> |           |  |
| 1  | CR4402    | Pre-wired with Cat. No. DP1332 tap-off       |
| 1  | CR4403    | Pre-wired with Cat. No. DP1532 tap-off       |
| 1  | CR4412    | Pre-wired with Cat. No. JP2332 tap-off       |
| 1  | CR4413    | Pre-wired with Cat. No. JP2532 tap-off       |

## access floor service outlet boxes

technical information

### Floor boxes

#### Dimensions

Lid can accommodate carpets up to 6 mm depth  
Accessory plates are 172 mm long, with 162 mm fixing centres

#### Materials

Lid and trim mouldings are precision engineered from hard wearing durable ABS. Lid is reinforced with a galvanised mild steel plate  
Mounting frame and box base – 0.9 mm thick galvanised steel  
Floor service unit conforms to BS EN 61534-22

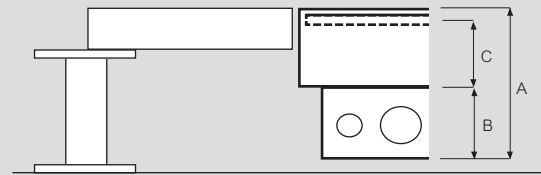
#### Wiring

Each compartment has 2 entries for 20 mm and 2 entries for 25 mm flexible conduits

#### Colour

Grey mouldings. Alternative colours available to special order  
Grey plates

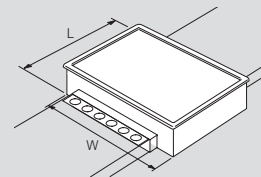
#### Dimensions from top of floor tile into floor void



| A (mm) | B Accessory box depth (mm) | C Underside lid to top of accessory (plug clearance) (mm) |
|--------|----------------------------|---|
| 75     | 35                         | 35  |
| 85     | 45                         | 35  |
| 110    | 45                         | 60  |

#### Screed floor boxes

| Compartment | W (mm) | L (mm) |
|-------------|--------|--------|
| 3C          | 350    | 245    |
| 4C          | 350    | 245    |



### To install access floor box



Cut hole in raised floor tile, lower complete box into aperture and push firmly down

#### Floor tile cut-out dimensions

2 compartment : 263 mm x 203 mm<sup>1</sup>

3 and 4 compartment : 340 mm x 203 mm<sup>1</sup>

Floor cut-out aperture is the same for single base or separate compartment base

#### To fit carpet :

Detach lid and trim assembly by lifting the blue locking handles and lifting out. Cut and fit carpet. Push lid and trim assembly back into place



1 : The aperture dimension 203 mm has a fixing tolerance between 203 to 205 mm

NOTE : Please consult us for different plate options  
on +44 (0) 370 608 9020. Photos are only illustrative.



# FLOOR GROMMETS

perfectly balancing

capacity & size

## ACCESS GROMMETS

The Electrak range of simple-to-install access grommets allow cables and conduit to link between underfloor power and desk power systems.

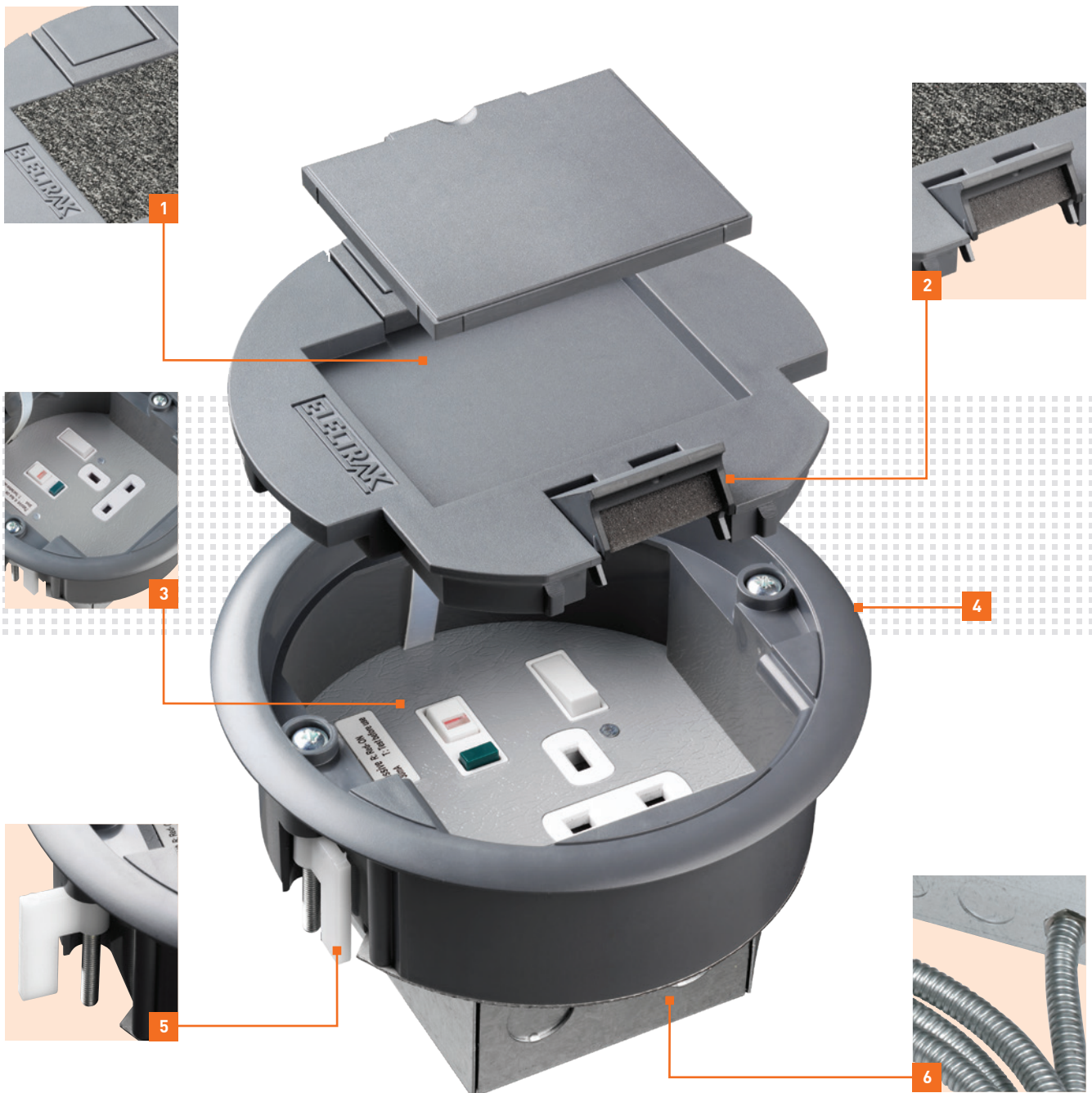
- Ranging from 144mm to 232mm in diameter
- 169mm diameter grommet can accommodate up to 3 x 32mm conduits - perfectly balancing capacity and size
- Push-fit lid with optional screw fixing to prevent unauthorised access



## POWER AND DATA GROMMETS

The Electrak range of cleaner's grommets are the latest addition to its power and data grommets range. Within their 169mm diameter, the grommet can house a flat RCD socket and provide ample space for the user to plug in or unplug equipment.

- Cleaner's grommet with flat mounted RCD socket or standard socket options
- Push-fit lid with cable flap feature
- Spring loaded screws for rapid installation
- Available pre-wired to powertrack tap-off

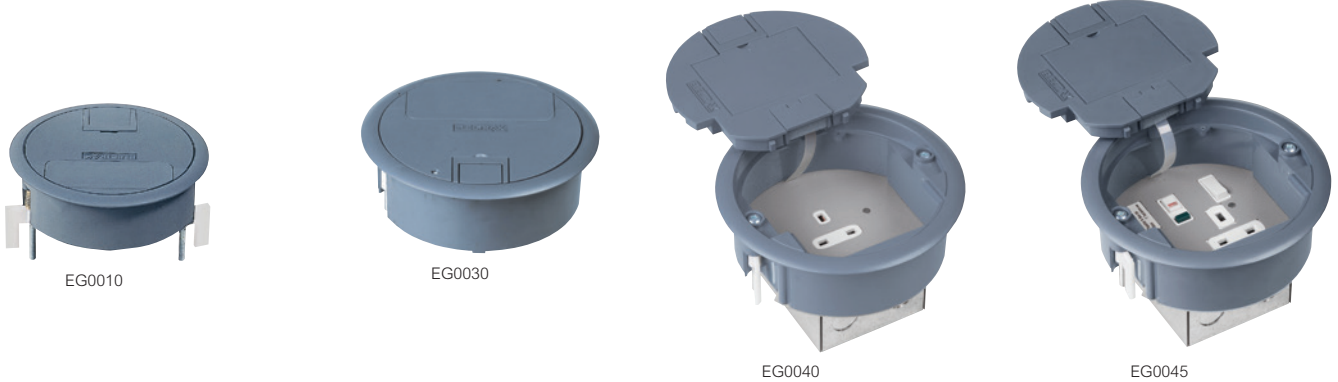


- 1 Removable inlay for optional carpet fitting
- 2 Cable flap allows permanent connection of services
- 3 Flat mounted RCD socket

- 4 169mm diameter provides the perfect balance between size and capacity
- 5 Spring loaded screws for rapid installation
- 6 Available pre-wired to powertrack tap-offs

# floor grommets

access / power and data



Dimensions and technical information p. 37

| Pack | Cat. Nos. | Plastic access grommets   | Pack | Cat. Nos. | Plastic power and data grommets   |
|------|-----------|---|------|-----------|---|
| 1    | EG0010    | <p>Quick fit installation<br/>Precision engineered from hard wearing durable ABS Grey mouldings. Other colours available to special order<br/>Conform to BS EN 61534-22<br/>Simply secured by pushing down the spring-loaded screws and rotating a quarter turn<br/>Recommended for use in light traffic areas<br/>Avoid positioning in walkways or under static loads</p> <p><b>144 mm Ø – cut-out size 127 mm Ø</b><br/>Can accommodate all cable types or three metal conduits up to a 20 mm Ø or 25 mm without foam</p> | 1    | EG0040    | <p><b>169 mm Ø – cut-out size 152 mm Ø</b><br/>Quick fit installation<br/>Precision engineered from hard wearing durable ABS Grey mouldings. Other colours available to special order. Conform to BS EN 61534-22<br/>Removable carpet recess<br/>Cable flap feature so grommet lid can be closed while in use<br/>Simply secured by pushing down the spring-loaded screws and rotating a quarter turn<br/>Recommended for use in light traffic areas<br/>Avoid positioning in walkways or under static loads</p> <p><b>13 A power grommet</b><br/>Supplied complete with 13 A unswitched socket</p> |
| 1    | EG0030    | <p><b>169 mm Ø – cut-out size 152 mm Ø</b><br/>Allows power, data and flexible conduit up to 32 mm to pass through raised access floor<br/>Lid can be locked with screw (included)<br/>Maximum number of conduits :<br/>9 x 20 mm Ø<br/>5 x 25 mm Ø<br/>3 x 32 mm Ø</p>   | 1    | EG0045    | <p><b>RCD power grommet</b><br/>Supplied complete with 13 A RCD socket</p>  |
| 1    | EG0055    | <p><b>232 mm Ø – cut-out size 215 mm Ø</b><br/>High capacity grommet<br/>Recommended for installation in light traffic areas</p>  | 1    | EG0051    | <p><b>13 A power/data grommet</b><br/>Supplied complete with 13 A socket and 1 x 37 x 22 mm cut-out</p>   |
| 1    | EG0015    | <p><b>Aluminium access grommet</b><br/>Body – cast aluminium<br/>Lid – injection moulded plastic Nylon 66 with neoprene cable gasket<br/>Secured by quarter-turn fasteners<br/>Floor depth 25 to 55 mm<br/>Access grommet depth 60 mm (95 mm when back box included)</p> <p><b>144 mm Ø – cut-out size 127 mm Ø</b><br/>Allows power, data and flexible conduit up to 25 mm to pass through raised access floor</p>   | 1    | EG0052    | <p><b>Data grommet</b><br/>Supplied complete with data plate<br/>2 x 37 x 22 mm cut-out</p>   |
| 1    | EG0025    | <p><b>Aluminium power grommet</b><br/><b>13 A power grommet</b><br/>Supplied complete with 13 A switched socket</p>   | 1    | EG0053    | <p><b>Cleaners floor grommets 169 mm Ø</b><br/>Non-standard 5 A socket</p>  |
|      |           |   | 1    | EG0035    | <p>Single switched socket</p>   |
|      |           |   |      |           | <p><b>Pre-wired power grommets</b><br/>Recommended for use in light traffic areas</p> <p><b>169 mm Ø – cut-out size 152 mm Ø</b></p> <p><b>Cleaners socket version</b></p>  |
|      |           |   | 1    | EG0041    | DP1332 - 3 m unfused  |
|      |           |   | 1    | EG0042    | DP1532 - 5 m unfused  |
|      |           |   | 1    | EG0043    | DP1313 - 3 m 13 A fused   |
|      |           |   | 1    | EG0044    | DP1513 - 5 m 13 A fused   |
|      |           |   |      |           | <b>RCD socket version</b>   |
|      |           |   | 1    | EG0046    | DP1332 - 3 m unfused  |
|      |           |   | 1    | EG0047    | DP1532 - 5 m unfused  |
|      |           |   | 1    | EG0048    | DP1313 - 3 m 13 A fused   |
|      |           |   | 1    | EG0049    | DP1513 - 5 m 13 A fused   |

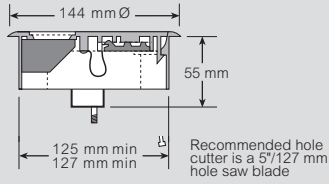
# floor grommets

## technical information

### ■ 144 mm Ø plastic floor grommet

#### Dimensions

Cat. No. EG0010

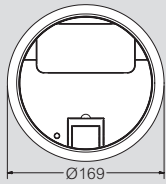
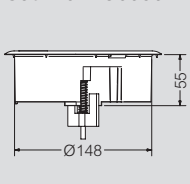


### ■ 169 mm Ø plastic floor grommets

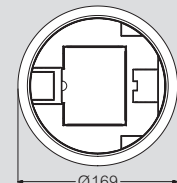
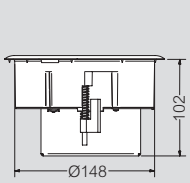
#### Dimensions

Access grommet

Cat. No. EG0030



Power grommet



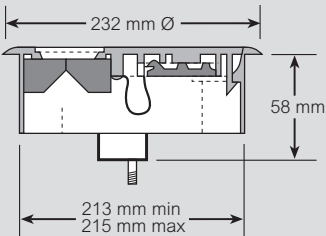
Recommended hole cutter is a 6"/152 mm hole saw blade

### ■ 232 mm Ø plastic floor grommet

#### Dimensions

Large quick fit grommet

Cat. No. EG0055

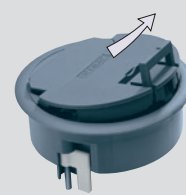


Floor panel cut-out diameter

Recommended hole cutter is a adjustable hole saw blade with Ø range of 40 mm - 300 mm

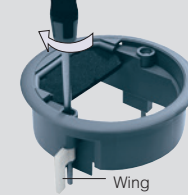
### ■ To install plastic floor grommets

A



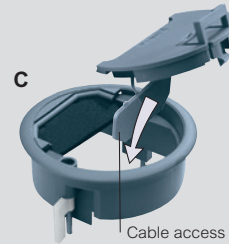
Lift handle and pull to remove lid

B



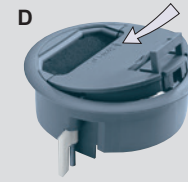
Push grommet into raised floor tile aperture  
Push down spring loaded screws and rotate quarter turn to secure  
Ensure wings are located under floor panel  
For honeycombed floor panels one wing should face downwards and one wing should face upwards

C



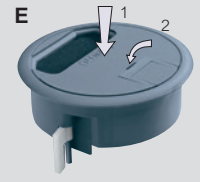
Drop cable access insert into housing opening

D



Slide lid into lug holes

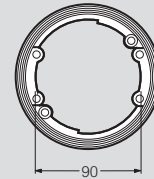
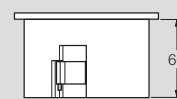
E



(1) Push down lid to close  
(2) If grommet is not in use, replace cable access insert

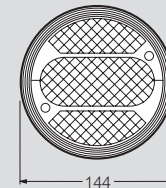
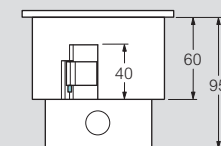
### ■ 144 mm Ø aluminium grommets

Access grommet



Cat. No. EG0015

13 A power grommet



Cat. No. EG0025

Recommended hole cutter is a 5"/127 mm hole saw blade

# INTERSOC-R™

fast, reliable, adaptable

modular  
desk power







## COMPLETE SOLUTIONS FOR DEMANDING ENVIRONMENTS

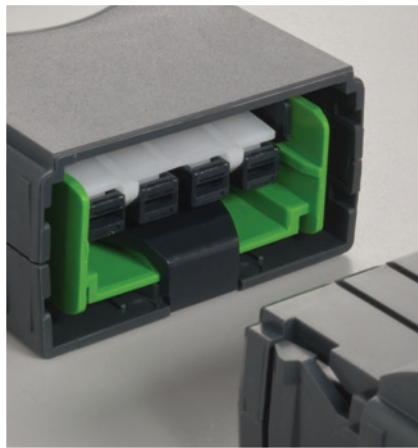
Intersoc-R is a modular desk power system designed to meet the demands of modern workplaces for faster and more adaptable solutions.

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

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)

|   |         |                                  |
|---|---------|----------------------------------|
|   |         | <b>2 gang unfused</b>            |
| 1 | IAB502F | Fixed sockets                    |
| 1 | IAB502R | Rotatable sockets                |
|   |         | <b>2 gang individually fused</b> |
| 1 | IAB532F | 3·15 A – fixed sockets           |
| 1 | IAB532R | 3·15 A – rotatable sockets       |
|   |         | <b>3 gang unfused</b>            |
| 1 | IAB503F | Fixed sockets                    |
| 1 | IAB503R | Rotatable sockets                |
|   |         | <b>3 gang individually fused</b> |
| 1 | IAB533F | 3·15 A – fixed sockets           |
| 1 | IAB533R | 3·15 A – rotatable sockets       |
|   |         | <b>4 gang unfused</b>            |
| 1 | IAB504F | Fixed sockets                    |
| 1 | IAB504R | Rotatable sockets                |
|   |         | <b>4 gang individually fused</b> |
| 1 | IAB534F | 3·15 A – fixed sockets           |
| 1 | IAB534R | 3·15 A – rotatable sockets       |

## Socket modules – low noise / clean earth (green sockets)

|   |         |                                  |
|---|---------|----------------------------------|
|   |         | <b>2 gang unfused</b>            |
| 1 | IAC502F | Fixed sockets                    |
| 1 | IAC502R | Rotatable sockets                |
|   |         | <b>2 gang individually fused</b> |
| 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)

|   |         |                                  |
|---|---------|----------------------------------|
|   |         | <b>3 gang unfused</b>            |
| 1 | IAC503F | Fixed sockets                    |
| 1 | IAC503R | Rotatable sockets                |
|   |         | <b>3 gang individually fused</b> |
| 1 | IAC533F | 3·15 A – fixed sockets           |
| 1 | IAC533R | 3·15 A – rotatable sockets       |
|   |         | <b>4 gang unfused</b>            |
| 1 | IAC504F | Fixed sockets                    |
| 1 | IAC504R | Rotatable sockets                |
|   |         | <b>4 gang individually fused</b> |
| 1 | IAC534F | 3·15 A – fixed sockets           |
| 1 | IAC534R | 3·15 A – rotatable               |

## End cap

|   |         |               |
|---|---------|---------------|
| 1 | IAZ001A | Blank end cap |
|---|---------|---------------|

## Intersoc to Intersoc pre-wired interconnection

|   |         |              |
|---|---------|--------------|
|   |         | <b>16 A</b>  |
| 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   |
|   |         | <b>32 A</b>  |
| 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   |

## Power out end caps 16 A

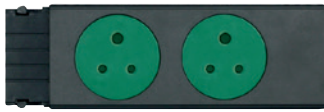
|   |         |  |
|---|---------|--|
|   |         | <b>Without flex</b>                      |
| 1 | IAB600B | End cap with female GST connector        |
| 1 | IAB600C | End cap with female ST connector         |
|   |         | <b>With flex to female GST connector</b> |
| 1 | IAB610B | 1 m length                               |
| 1 | IAB620B | 2 m length                               |
| 1 | IAB630B | 3 m length                               |

# Intersoc-R™ desk modules

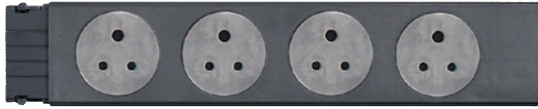
protection, BS sockets, end caps and interlinks

# Intersoc-R™ desk modules

technical information



IAC5P2F



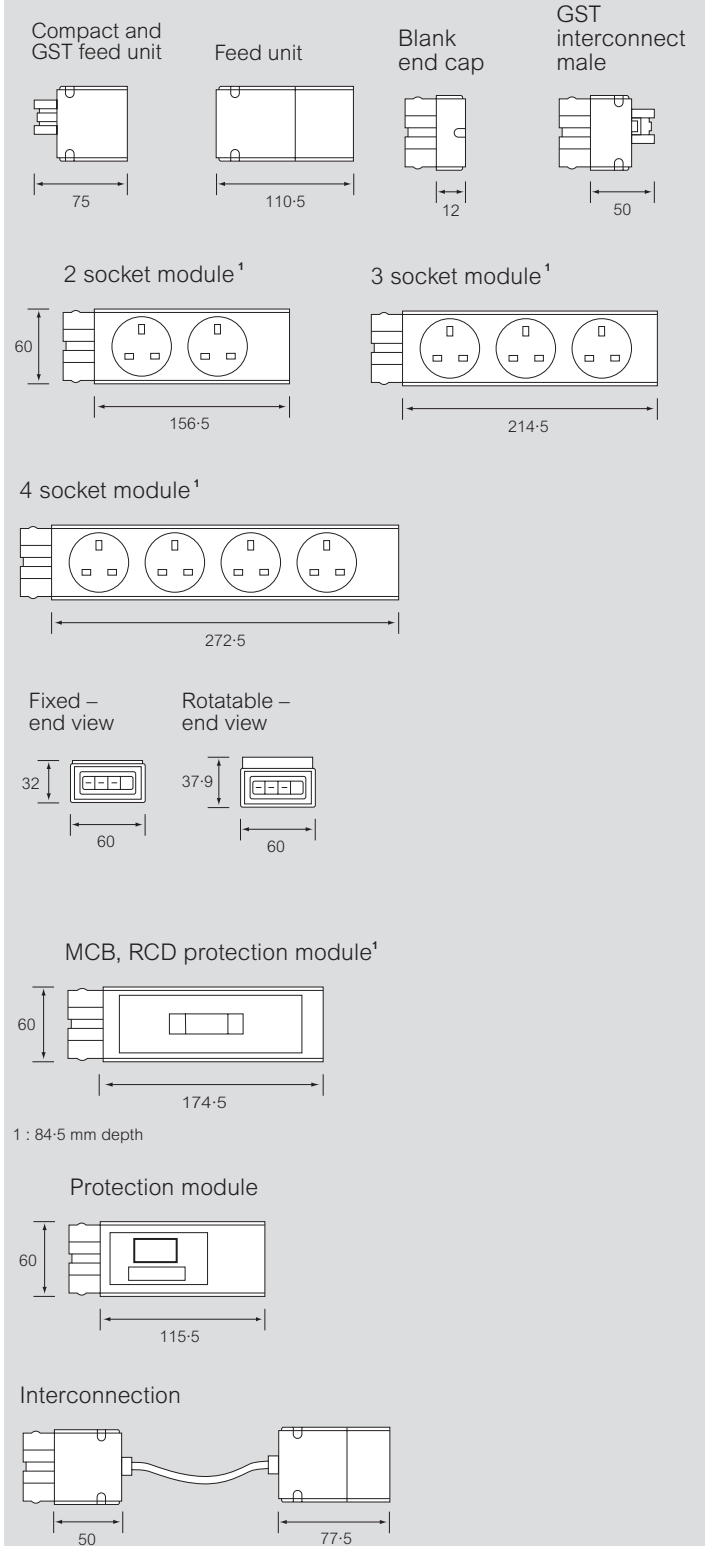
IAB5P4F

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 |
|--|-----------|---------------------------|
| <b>2 gang fixed 90° – IS 1293</b>      |           |                           |
| 1                                      | IAB5P2F   | Grey – 2 P + E            |
| 1                                      | IAC5P2F   | Green – 2 P + CE          |
| <b>3 gang fixed 90° grey – IS 1293</b> |           |                           |
| 1                                      | IAB5P3F   | Grey – 2 P + E            |
| 1                                      | IAC5P3F   | Green – 2 P + CE          |
| <b>4 gang fixed 90° grey – IS 1293</b> |           |                           |
| 1                                      | IAB5P4F   | Grey – 2 P + E            |
| 1                                      | IAC5P4F   | Green – 2 P + CE          |

## Under-desk dimensions (mm)



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 <sup>2</sup> | 29 m V/A/m |
| 32 A                 | 2.0 m V/A  |
| +4 mm <sup>2</sup>   | 11 m V/A/m |

### Interconnections :

|                      |            |
|----------------------|------------|
| 16 A/32 A            | 2.0 m V/A  |
| +1.5 mm <sup>2</sup> | 29 m V/A/m |
| +4 mm <sup>2</sup>   | 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 <sup>2</sup> | 29 mΩ/m |
| 32 A                 | 2.0 mΩ  |
| +4 mm <sup>2</sup>   | 11 mΩ/m |

### Interconnections :

|                      |           |
|----------------------|-----------|
| 16 A/32 A            | 4.0 m V/A |
| +1.5 mm <sup>2</sup> | 29 mΩ/m   |
| +4 mm <sup>2</sup>   | 11 mΩ/m   |

### Mechanical data

|  |                    |
|--|--------------------|
| Number of conductors                     | 3                  |
| Busbar conductor cross-sectional area    | 5 mm <sup>2</sup>  |
| 16 A rewirable in-feed terminal capacity | 10 mm <sup>2</sup> |
| 32 A rewirable in-feed terminal capacity | 10 mm <sup>2</sup> |

## ■ 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 mm<sup>2</sup> conductor (543.7.203 (ii)). Intersoc achieves this when wired in accordance with the installation sheets by providing mechanically protected 5 mm<sup>2</sup> 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) <sup>1</sup> |

1 : European grades with nearest British Standard shown in brackets

All dimensions (mm) are nominal

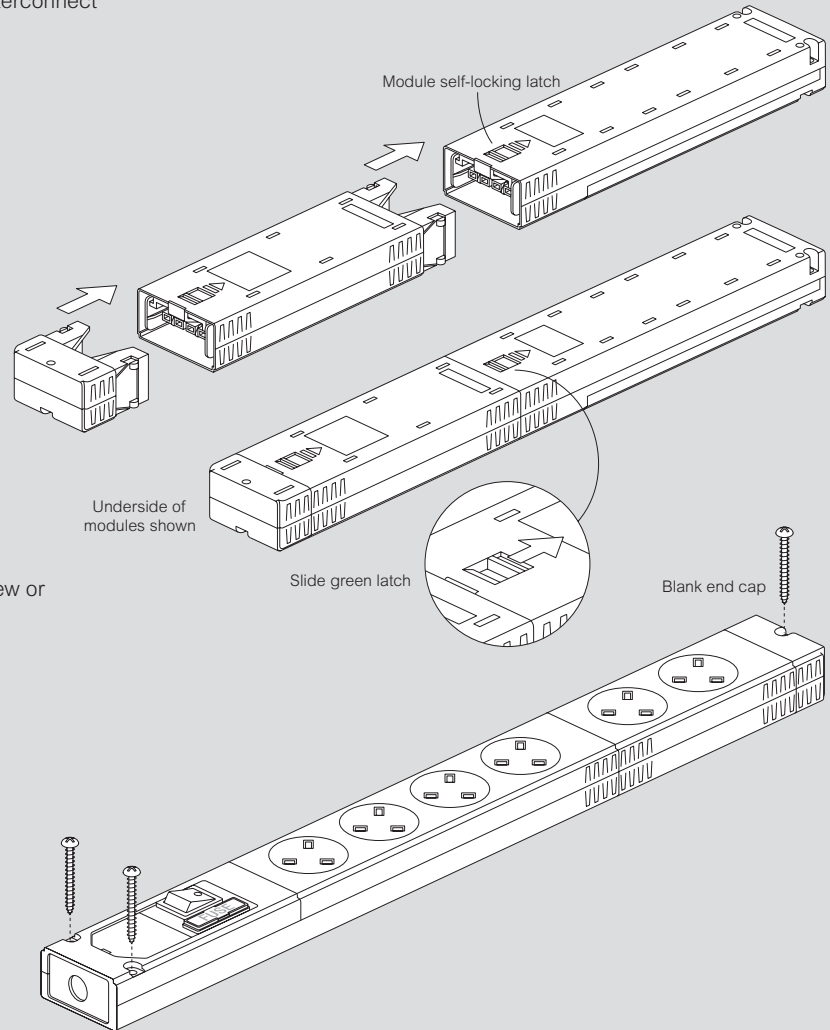
# Intersoc-R™ desk modules

## 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



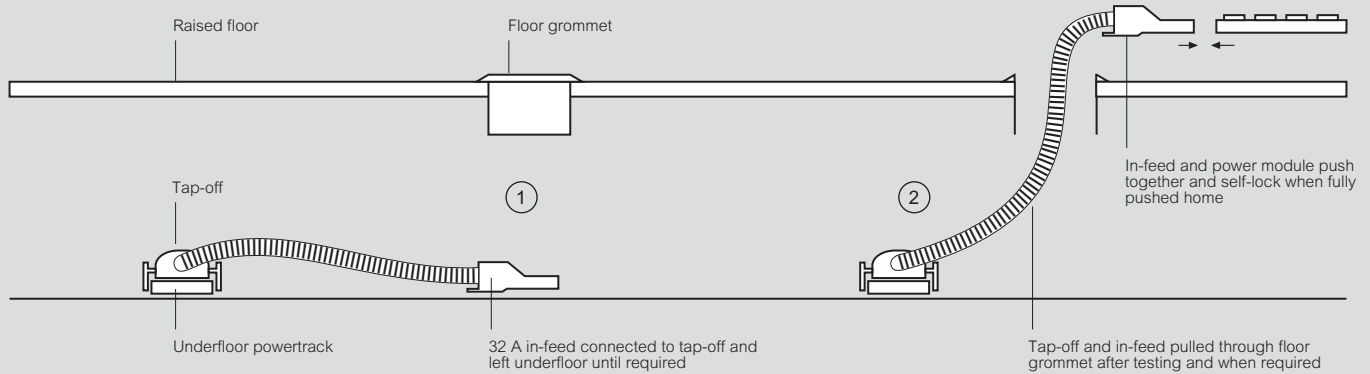
#### To fix modules to surface

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)



# ON-DESK

power and data for  
modern workspaces



## ON-DESK RANGE BRINGS POWER, DATA AND RAPID USB CHARGING TO THE MODERN WORKSTATION

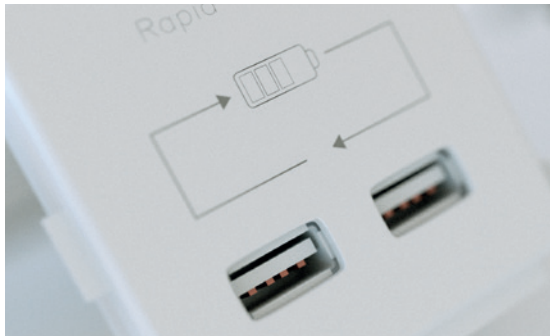
With clean lines and a stylish aluminium and mirror white finish, Electrak on-desk's ergonomic design blends in perfectly with contemporary office design schemes and enhances the functionality of the desk space.



# Tailored to your requirements

Configuring on-desk modules to your exact requirements couldn't be simpler. Select any combination of power sockets and USB charging modules, and further enhance functionality with plug and play data solutions or Euro modules. Legrand's modular wiring accessories, including a range of AV solutions, can also be incorporated.

Putting 'personal' back into desk power and data... Intersoc on-desk can be tailored to the demands of any workstation



## RAPID USB CHARGING

Intelligent twin USB modules offer a high specification, rapid charge facility that keeps your mobile devices ready should you need to work on the move. Up to two devices (e.g. tablet and smart phone) can be simultaneously charged at a faster rate than common, lower output chargers.



## HIGH PERFORMANCE DATA

On-desk offers plug and play CAT 5e and CAT 6 data options or CAT 6A keystone jack modules for higher performance. Euro module options are also available to accommodate a customer's specific data requirements. The innovative design of Intersoc on-desk enables data cables to neatly feed through the rear of the unit (see below).



Watch the on-desk video at [www.youtube.com/LegrandtvUK](http://www.youtube.com/LegrandtvUK)

The entire Electrak system is powered by a reliable busbar backbone, from powertrack right through to on-desk modules.



Power is fed to the on-desk unit via a choice of 13 A pre-wired plug, GST connector or an Intersoc-R under-desk connector.



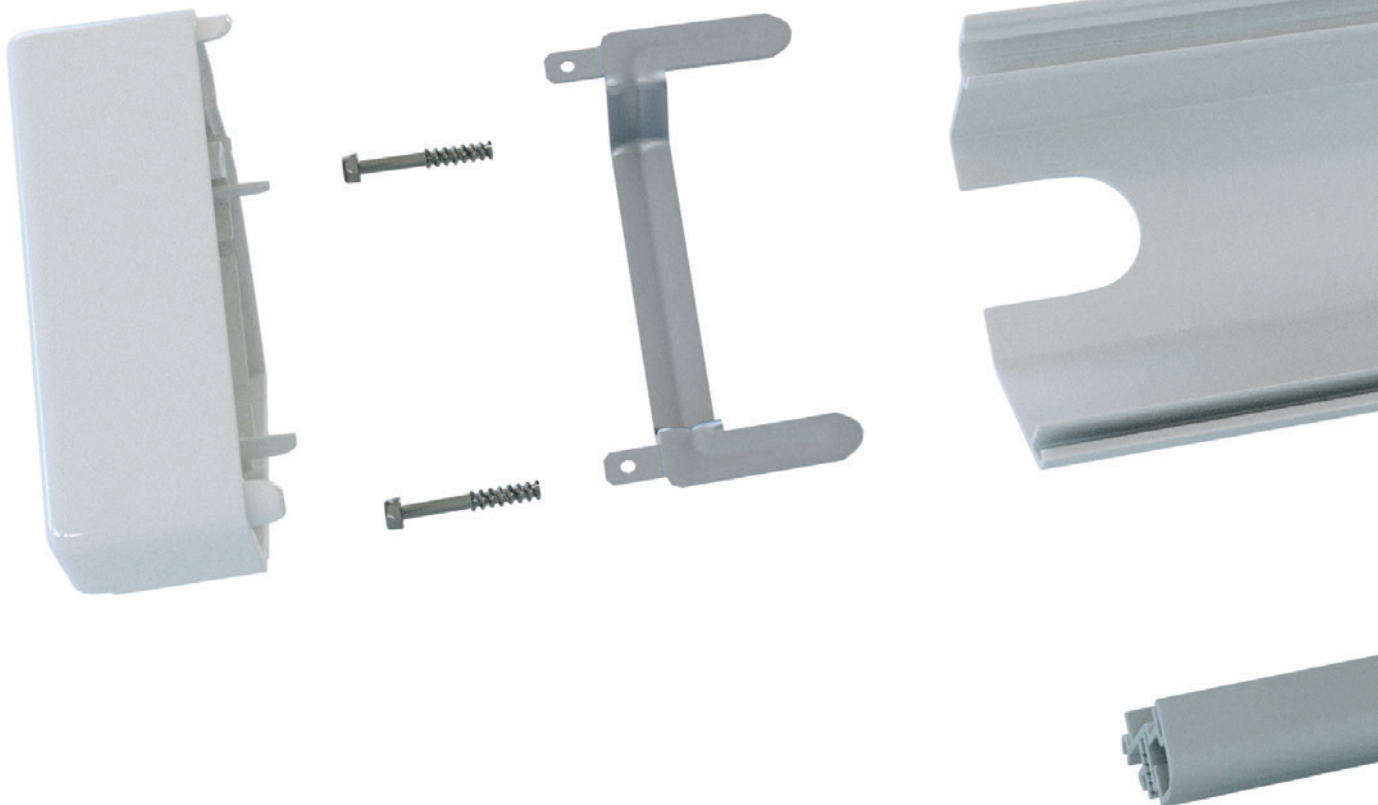
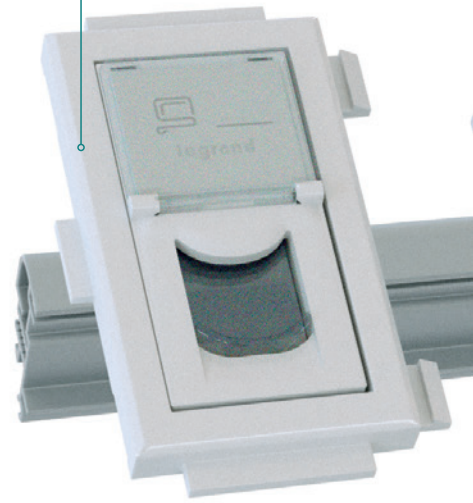
CAT 5e and CAT 6 data outlets are fed neatly from the rear of the unit via simple RJ45 connection (patch leads not supplied).

# RELIABLE DESKTOP CONNECTIVITY

CAT 5e / 6 / 6A  
RJ45 outlets

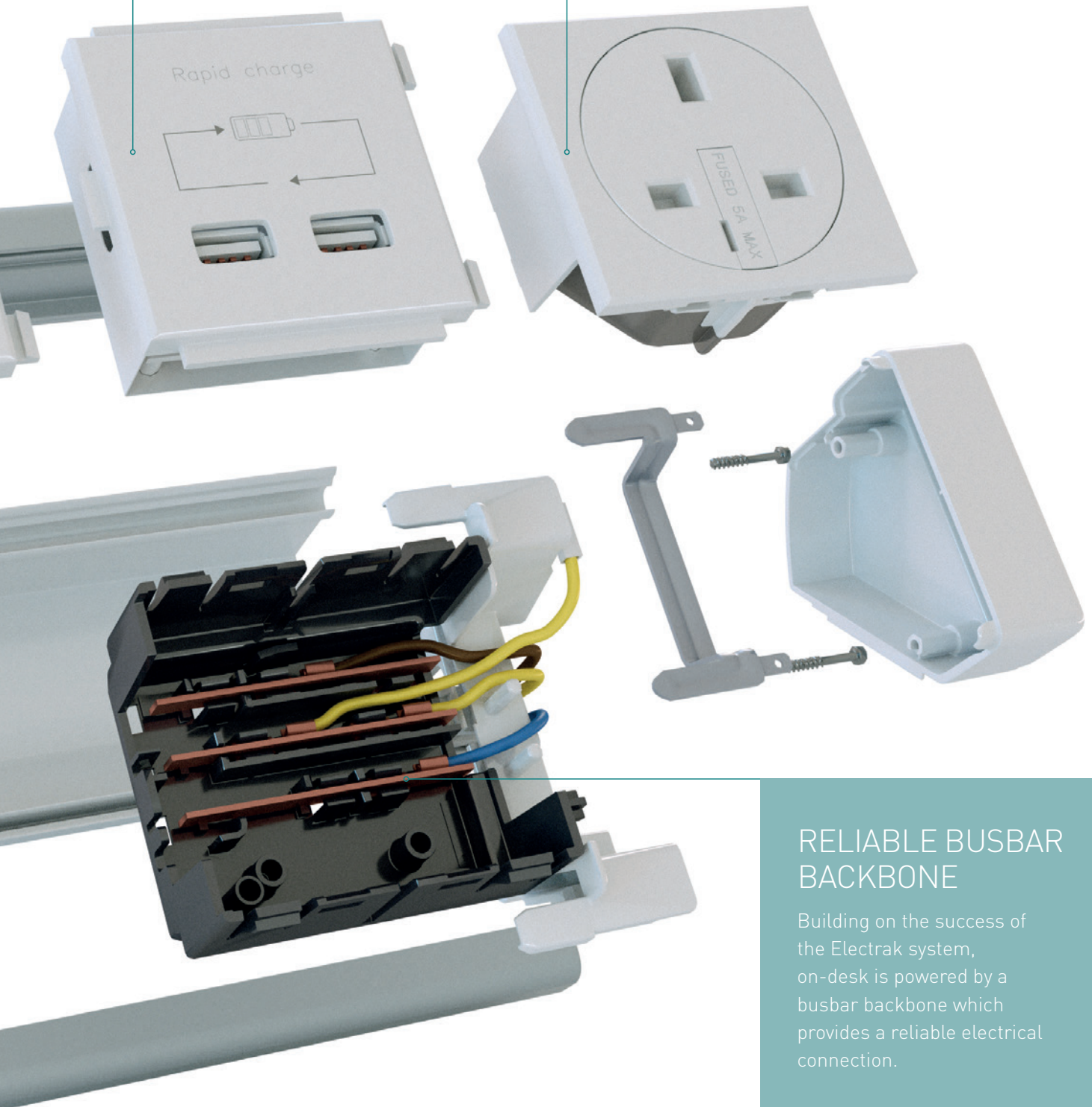
ON-DESK...  
DELIVERING POWER,  
DATA AND RAPID USB  
CHARGING TO THE  
MODERN WORKPLACE

The fast pace of modern work practices combined with the need for instant connectivity is placing an ever greater reliance on the use of multiple devices, whether it be at our workstation or whilst we're on the move. The new range of Electrak on-desk modules offers a convenient answer to the growing demand for user-specific desk power and data access.



Rapid dual  
USB charging


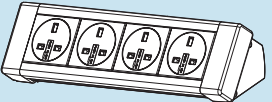
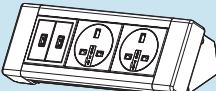

BS and  
International  
socket options



## RELIABLE BUSBAR BACKBONE

Building on the success of the Electrak system, on-desk is powered by a busbar backbone which provides a reliable electrical connection.

## On-desk modules

|    |   | Pre-wired with<br>3 m flex and<br>BS 1363 plug  | Pre-wired with<br>1.5 m flex and<br>GST connector  | Pre-wired with<br>1.5 m flex and<br>Intersoc-R connector  |  |
|---|---|---|---|--|--|
|   | Description   | Cat. Nos.   | Cat. Nos.   | Cat. Nos.  |  |
|    | 2 x sockets individually fused at 3·15 A  | PA3320AA  | PB1320AA  | PD1320AA   |  |
|    | 3 x sockets individually fused at 3·15 A  | PA3330AA  | PB1330AA  | PD1330AA   |  |
|    | 4 x sockets individually fused at 3·15 A  | PA3340AA  | PB1340AA  | PD1340AA   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet  | PA3320AB  | PB1320AB  | PD1320AB   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets | PA3320AC  | PB1320AC  | PD1320AC   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>1 x rear pluggable data USB outlet             | PA3320AD  | PB1320AD  | PD1320AD   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>2 x rear pluggable data USB outlets            | PA3320AE  | PB1320AE  | PD1320AE   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>1 x CAT 6A RJ45 outlet with 3 m data lead      | PA3320AF  | PB1320AF  | PD1320AF   |  |
|  | 2 x sockets individually fused at 3·15 A plus<br>2 x CAT 6A RJ45 outlets with 3 m data leads    | PA3320AG  | PB1320AG  | PD1320AG   |  |

### Fixings

| Description | Cat. No. |
|-------------|----------|
| Desk clamp  | 0546 99  |





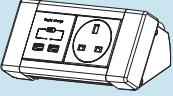
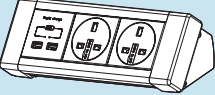
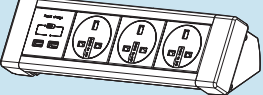
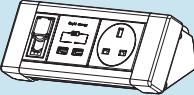
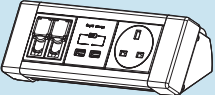
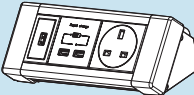
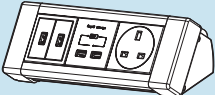
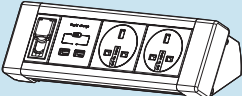
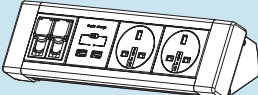
|   |   | Pre-wired with<br>3 m flex and<br>BS 1363 plug | Pre-wired with<br>1.5 m flex and<br>GST connector | Pre-wired with<br>1.5 m flex and<br>Intersoc-R connector |
|---|---|--|---|--|
|   | Description   | Cat. Nos.                                      | Cat. Nos.   | Cat. Nos.  |
|    | 2 x sockets individually fused at 3.15 A plus carrier to accept 1 x Euro Module (25 x 50 mm)  | PA3320AK                                       | PB1320AK  | PD1320AK   |
|    | 2 x sockets individually fused at 3.15 A plus carrier to accept 2 x Euro Modules (50 x 50 mm) | PA3320AL                                       | PB1320AL  | PD1320AL   |
|    | 3 x sockets individually fused at 3.15 A plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet   | PA3330AB                                       | PB1330AB  | PD3330AB   |
|  | 3 x sockets individually fused at 3.15 A plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets  | PA3330AC                                       | PB1330AC  | PD1330AC   |
|  | 3 x sockets individually fused at 3.15 A plus 1 x rear pluggable data USB outlet              | PA3330AD                                       | PB1330AD  | PD1330AD   |
|  | 3 x sockets individually fused at 3.15 A plus 2 x rear pluggable data USB outlets             | PA3330AE                                       | PB1330AE  | PD1330AE   |
|  | 2G 6A Indian non-switched – 1.5 ISOC and no data  | –  | –   | PD1P20AA   |
|  | 2G 6A Indian non-switched – 1.5 ISOC and 1 x C5/6   | –  | –   | PD1P20AB   |
|  | 2G 6A Indian non-switched – 1.5 ISOC and 2 x C5/6   | –  | –   | PD1P20AC   |

**Notes:**

Other options are available to special order. Contact us on +44 (0) 345 605 4333  
 CAT 5e / CAT 6 outlets have a rear facing RJ45 that will accept either CAT 5e or CAT 6 data cabling (no data cabling is included with the product)  
 CAT 6A outlets are supplied with 3 m pre-wired lead and performance certificate  
 The data USB outlets have a short flying lead at the rear for USB connection to the PC (no additional data cabling is included with the product)  
 Units supplied with carriers to accept Euro Modules will be supplied with apertures at the rear for the passing of data or AV cables

## On-desk modules

with twin outlet USB charger

|    |   | Pre-wired with<br>3 m flex and<br>BS 1363 plug  | Pre-wired with<br>1.5 m flex and<br>GST connector  | Pre-wired with<br>1.5 m flex and<br>Intersoc-R connector  |  |
|---|---|---|---|--|--|
|   | Description   | Cat. Nos.   | Cat. Nos.   | Cat. Nos.  |  |
|    | 1 x unfused socket plus twin outlet USB charger   | PA3012AA  | PB1012AA  | PD1012AA   |  |
|    | 2 x sockets individually fused at 3.15 A plus twin outlet USB charger   | PA3322AA  | PB1322AA  | PD1322AA   |  |
|    | 3 x sockets individually fused at 3.15 A plus twin outlet USB charger   | PA3332AA  | PB1332AA  | PD1332AA   |  |
|  | 1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet                        | PA3012AB  | PB1012AB  | PD1012AB   |  |
|  | 1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets                       | PA3012AC  | PB1012AC  | PD1012AC   |  |
|  | 1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable data USB outlet                                   | PA3012AD  | PB1012AD  | PD1012AD   |  |
|  | 1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable data USB outlets                                  | PA3012AE  | PB1012AE  | PD1012AE   |  |
|  | 2 x sockets individually fused at 3.15 A, twin outlet USB charger plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet  | PA3322AB  | PB1322AB  | PD1322AB   |  |
|  | 2 x sockets individually fused at 3.15 A, twin outlet USB charger plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets | PA3322AC  | PB1322AC  | PD1322AC   |  |

### Fixings

| Description | Cat. No. |
|-------------|----------|
| Desk clamp  | 0546 99  |



|   |   | Pre-wired with<br>3 m flex and<br>BS 1363 plug | Pre-wired with<br>1.5 m flex and<br>GST connector | Pre-wired with<br>1.5 m flex and<br>Intersoc-R connector |
|---|---|--|---|--|
|   | Description   | Cat. Nos.                                      | Cat. Nos.   | Cat. Nos.  |
|    | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus 1 x rear pluggable<br>data USB outlet                     | PA3322AD                                       | PB1322AD  | PD1322AD   |
|    | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus 2 x rear pluggable<br>data USB outlets                    | PA3322AE                                       | PB1322AE  | PD1322AE   |
|    | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus 1 x CAT 6A RJ45<br>outlet with 3 m data lead              | PA3322AF                                       | PB1322AF  | PD1322AF   |
|  | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus 2 x CAT 6A RJ45<br>outlets with 3 m data leads            | PA3322AG                                       | PB1322AG  | PD1322AG   |
|  | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus carrier to accept<br>1 x Euro Module (25 x 50 mm)         | PA3322AK                                       | PB1322AK  | PD1322AK   |
|  | 2 x sockets individually fused at 3.15 A,<br>twin outlet USB charger plus double carrier to<br>accept 2 x Euro Modules (50 x 50 mm) | PA3322AL                                       | PB1322AL  | PD1322AL   |
|  | 2G 6A Indian non-switched – 2 USB : 1.5 m ISOC<br>and no data   | –  | –   | PD1P22AA   |
|  | 2G 6A Indian non-switched – 2 USB : 1.5 m ISOC<br>and 1 x C5/6  | –  | –   | PD1P22AB   |
|  | 2G 6A Indian non-switched – 2 USB : 1.5 m ISOC<br>and 2 x C5/6  | –  | –   | PD1P22AC   |

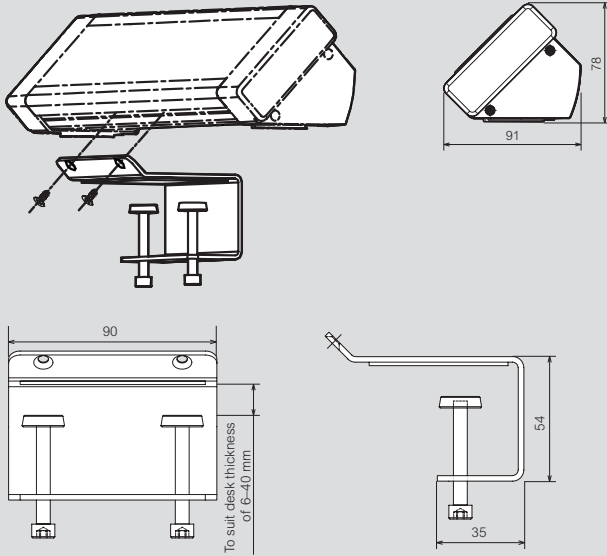
**Notes:**

Other options are available to special order. Contact us on +44 (0) 345 605 4333  
 CAT 5e / CAT 6 outlets have a rear facing RJ45 that will accept either CAT 5e or CAT 6 data cabling (no data cabling is included with the product)  
 CAT 6A outlets are supplied with 3 m pre-wired lead and performance certificate  
 The data USB outlets have a short flying lead at the rear for USB connection to the PC (no additional data cabling is included with the product)  
 Units supplied with carriers to accept Euro Modules will be supplied with apertures at the rear for the passing of data or AV cables

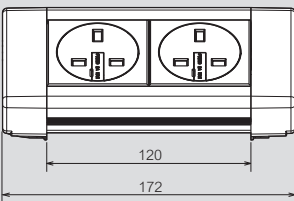
# On-desk modules

## technical information

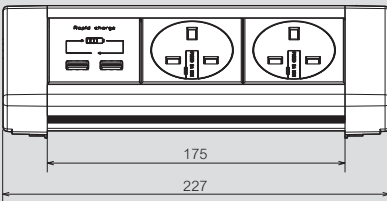
**On-desk dimensions (mm)**



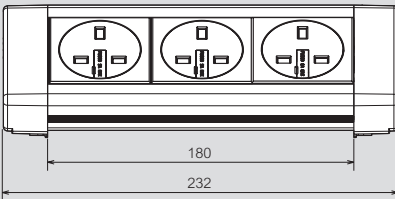
PA3320AA



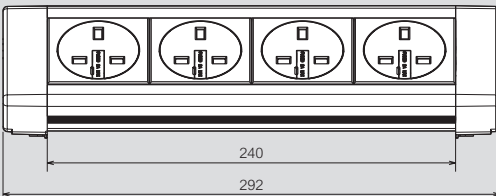
PA3322AA



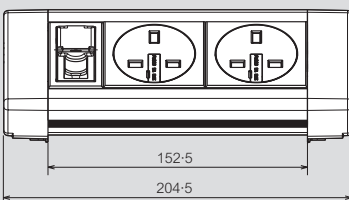
PA3330AA



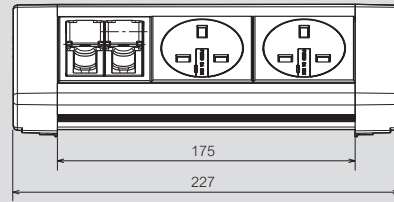
PA3340AA



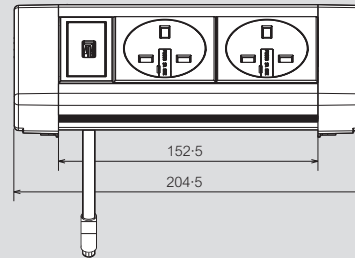
PA3320AB



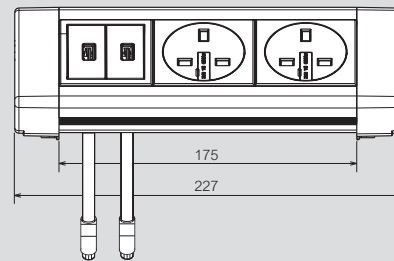
PA3320AC



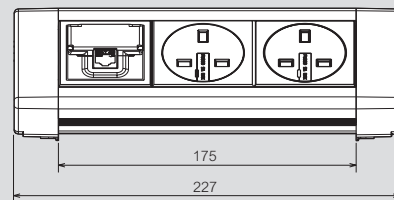
PA3320AD



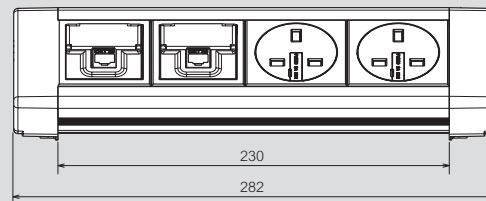
PA3320AE



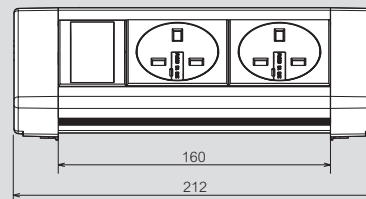
PA3320AF



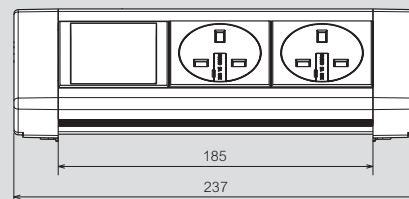
PA3320AG



PA3320AK



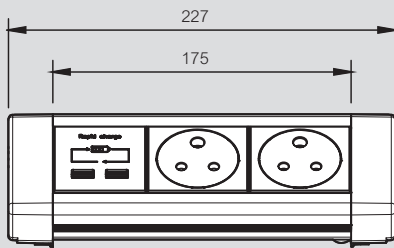
PA3320AL



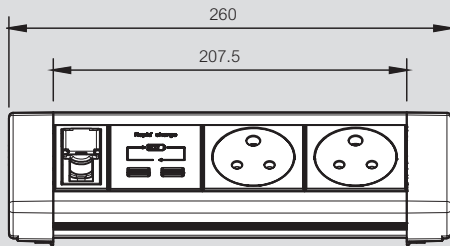
All dimensions (mm) are nominal

■ On-desk dimensions (mm) (continued)

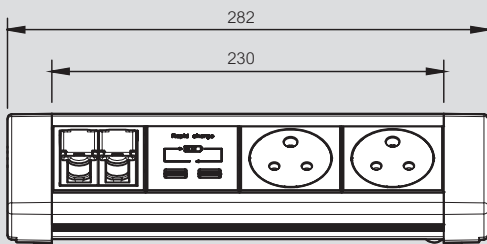
PD1P22AA



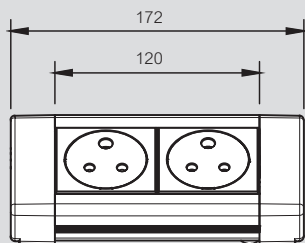
PD1P22AB



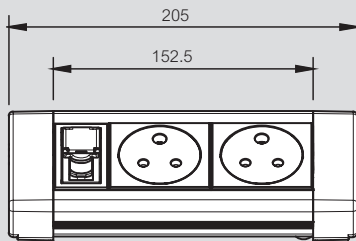
PD1P22AC



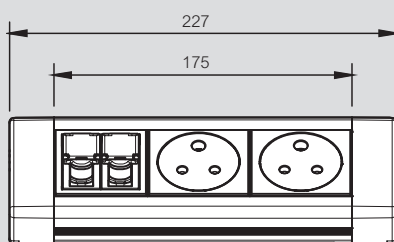
PD1P20AA



PD1P20AB



PD1P20AB



■ Testing and accreditation



Complies with BS 5733 and relevant parts of BS 1363-2  
Manufactured within an approved ISO 9001 : 2015 and ISO 14001 : 2015 facility

■ BS 6396 : 2008 + A1 2015

Electrical Systems in Office Furniture and Educational Furniture Specification

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

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

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

BS 6396 : 2008 + A1 2015 requires RCD protection for electrical sockets

Material specification

|                |                     |
|----------------|---------------------|
| Module housing | aluminium / PVC     |
| Module fascia  | polycarbonate / ABS |
| Socket outlets | polycarbonate       |
| End caps       | ABS                 |

USB charger module specification

|                          |                        |
|--------------------------|------------------------|
| Supply voltage (nominal) | 230 V (AC)             |
| Supply current           | 1·3 mA                 |
| Power consumption (max.) | 0·3 W                  |
| Frequency                | 50 Hz                  |
| Output voltage           | +5·0 V ± 0·25 (DC)     |
| Output current           | 3·1 A                  |
| Output power             | 15 W (max.)            |
| Over current protection  | 3·8 A (max.)           |
| Output connectors        | 2 x USB Type A sockets |
| Current per socket       | 2·1 A (max.)           |

All dimensions (mm) are nominal

# ELECTRAK IN-DESK

enhancing the workstation



## IN-DESK BRINGS STYLE AND FLEXIBILITY TO THE WORKSTATION

Made from high quality brushed stainless steel, In-desk is designed to complement the aesthetic of modern workspaces, giving users power when they need it and minimal, sleek design when they don't.

With the simple touch of a button, the unit elegantly rises from the desk in a smooth action to reveal either a traditional twin socket arrangement or a single socket with twin USB outlets for charging mobile devices.



## EASY INSTALLATION

The Electrak In-desk range is pre-wired with a BS plug, GST or Intersoc-R connector for simple tool-free electrical connection.

## MINIMAL AND DISCREET

When power isn't required, the ultra-slim brushed stainless steel cover closes to fit discreetly into the desktop.

# POWER SET FREE

## wireless charging

Legrand's Qi certified induction charger can be easily installed into desks, tables and other furniture – allowing Qi enabled smartphones and other mobile devices to be charged simply by placing them on top. Charging has never been more simple.

Extra flat, supplied with a micro USB/USB cable and a USB mobile power supply (Cat. No. 077580).




### In-desk units



POPA3012AA



POPA3020AA



077580

 Dimensions and technical information **p. 61**

Classification of In-desk flush-mounting boxes according to  
 NFC 61-314 / EN 60670-1 : 2005 + A1 : 2013  
 Protection against mechanical impact: IK 07  
 Degree of ingress protection: IP 30 cover open, IP 40 cover closed

| Pack | Cat. Nos.  | In-desk units   |
|------|------------|---|
|      |            | USB power supply for recharging portable devices<br>Consumes in passive mode < 0.1 W<br>Double USB sockets - 5 V - 2400 mA<br>For fast charging telephones, smartphones, MP3/MP4 players and tablet PC<br>British standard socket outlet: shuttered for child safety<br>ASTA licenced<br>Conforms to BS 1363 Part 2 |
|      |            | <b>Unit with single socket and twin USB outlets</b>   |
| 1    | POPA3012AA | Unit with 3m lead and BS 1363 plug  |
| 1    | POPB1012AA | Unit with 1.5m lead and GST connector   |
| 1    | POPD1012AA | Unit with 1.5m lead and Intersoc-R connector  |
|      |            | <b>Unit with twin sockets</b>   |
| 1    | POPA3020AA | Unit with 3m lead and BS 1363 plug  |
| 1    | POPB1020AA | Unit with 1.5m lead and GST connector   |
| 1    | POPD1020AA | Unit with 1.5m lead and Intersoc-R connector  |
|      |            | <b>Wireless charging unit</b>   |
| 1    | 077580     | <b>Qi certified induction charger</b><br>1000 mA wireless charger for furniture<br>Wireless charging for Qi enabled smartphones and other mobile devices<br>Designed for mounting horizontally into furniture<br>Supplied complete with required accessories for installation into furniture                        |

# In-desk units and wireless charging unit

## technical information

### In-desk units

#### Technical characteristics

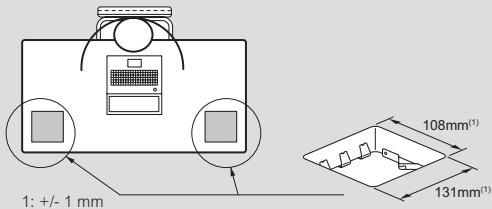
| Electrical characteristics                                     |  |
|--|--|
| Earthing system  | R < 0.05 Ohms                            |
| Resistance to vertical load applied through small surface area | 1500 N cover open<br>3000 N cover closed |
| Rated voltage  | U 500 V - R > 5 MOhms                    |
| Electric strength  | 2000 V                                   |
| Protection class   | II - low voltage                         |

Material: Halogen free material, fire proofed and no propagator of the flame

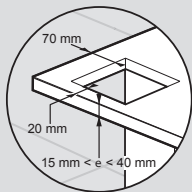
Resistant to corrosion and to temperature changes  
Finish: Brushed Stainless steel, zamak nickel coating  
Safety: You must earth the system

Cleaning: The exterior should only be cleaned using a damp cloth (avoid contact with the active parts). Do not use abrasive detergent

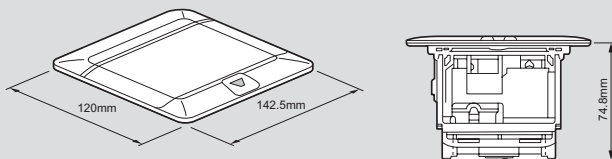
#### Installation



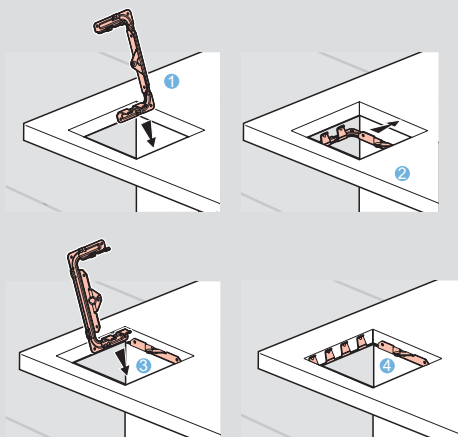
Minimum distance from to the edges of the furniture:



#### Dimensions



#### Positioning of the fixing supports



### Wireless charging unit - 1000 mA

#### Technical characteristics

| Electrical characteristics |                  |
|----------------------------|------------------|
| Nominal input voltage      | 110 - 230 V ~    |
| Nominal output voltage     | 5 V ~            |
| Frequency                  | 50 - 60 Hz       |
| Maximum input current      | 150 mA           |
| Maximum output current     | 1000 mA          |
| Standby consumption        | < 0.07 W         |
| Energy efficiency          | > 85%            |
| Protection class           | II - low voltage |

#### Average charging time for a smartphone equipped with an induction receiver

80% charge : < 2 hrs  
100% charge : < 2 hrs 45 mins

#### Climate characteristics

Storage temperature : 20°C to +70°C  
Operating temperature : 0°C to +45°C

#### Standards and approvals

WPC QI  
BS EN 62479  
ICNIRP

#### Mechanical characteristics

Impact resistance : IK 08  
Resistance to ingress of solid bodies and liquids :  
• IP 43  
• IP 44 for upper part installed on furniture

#### Material characteristics

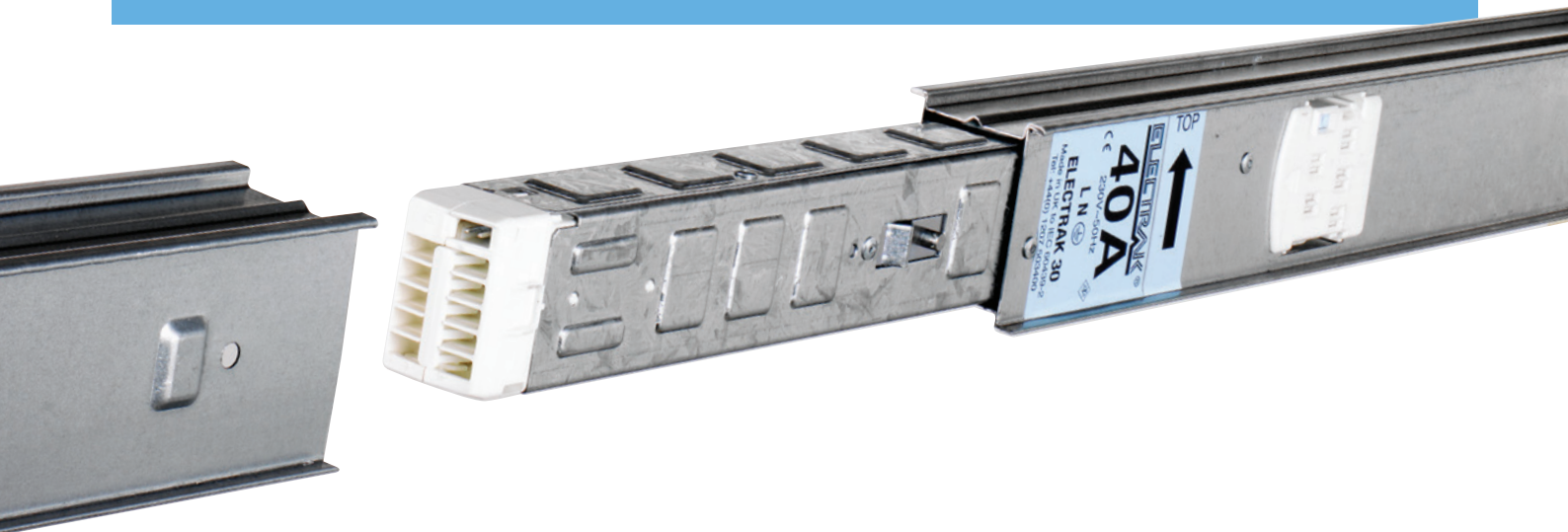
ABS  
Halogen free  
UV resistant  
Self-extinguishing :  
• 750°C / 30 s for parts made of insulating materials holding live parts in place  
• 650°C / 30 s for other insulating components

All dimensions (mm) are nominal

# BUSCOM TRUNKING

a unique

power & data backbone



Buscom is at the heart of Electrak's lighting control solutions... It provides a flexible and simple alternative to cabled installations.



## THE HEART OF YOUR LIGHTING CONTROL SYSTEM

Installing a matrix of Buscom trunking creates an accessible power and communications backbone. The backbone can be tapped into at any point to facilitate instant connection to power and control circuits. Buscom incorporates an integral shielded twisted pair, and is suitable for use with any lighting control protocol, including: KNX, LonWorks and DALI.

## MODULAR. FLEXIBLE. SIMPLE.

Trunking lengths simply push fit together, saving time and money on installation. With cable terminations only required for power and control circuits in the feed unit, Buscom delivers a plug and play solution that allows for future lighting layout changes to be made quickly and efficiently.



## BUSCOM ADDS A NEW DIMENSION TO LIGHTING BUSBAR

Buscom extends the unquestionable plug and play advantages from the power circuit to the control circuit.

This unique system for distributing lighting control signals delivers unrivalled flexibility, regardless of the location of the intelligence...

- Power and communications within a single trunking system
- Suitable for use with any lighting control protocol, including: KNX, LonWorks and DALI
- Modular, flexible system which is quick and simple to install and adapt
- Reduced potential points of failure in comparison with traditional wiring installations

# THE INTELLIGENT SOLUTION

### INTELLIGENCE IN THE PANEL



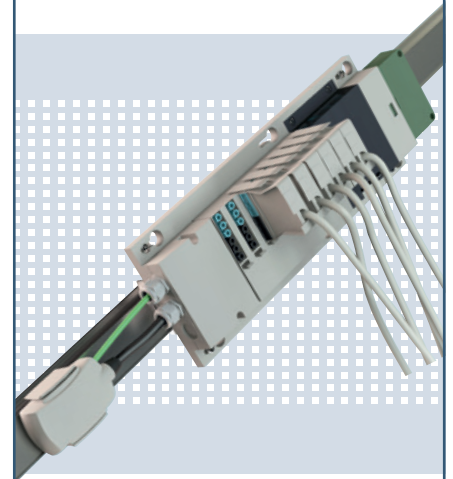
Lighting control modules located in a central cabinet are connected to the Buscom system via communication circuits. Control signals are then distributed along the trunking run and made available at any tap-off outlet.

### INTELLIGENCE IN THE BUSBAR



Integrating lighting control technology into Buscom trunking is particularly effective for DALI control. Each trunking run converts to an individual DALI network into which luminaires can tap-in at any point.

### INTELLIGENCE IN THE LCU



Lighting control units (LCUs) are mounted onto and plugged into Buscom trunking, providing a hub for multiple luminaires and switching devices to plug into. Buscom's integrated communication bus provides the backbone network to control all devices.

**Visit [www.legrand.co.uk](http://www.legrand.co.uk) for more information**

# Electrak® 30 2P + E buscom trunking

power and communication distribution



CCA3145C



CCA2145C



CCA14RFC



CCA14LFC

Dimensions and technical information p. 68-73

Integral communication bus suitable for KNX, Lonworks, DALI protocols, etc. 25 A and 40 A systems  
 IP 4X ingress protection  
 Fast installation (trunking push fits together in seconds). High quality materials

| Pack       | Cat. Nos.        | <b>Electrak 30<br/>2P + E with comms</b>   |            |                 |             |   |   |      |   |   |      |
|------------|------------------|--|------------|-----------------|-------------|---|---|------|---|---|------|
|            |                  | 2P + E buscom trunking system with integral communications bus circuit<br>Socket outlets colour coded white  |            |                 |             |   |   |      |   |   |      |
|            |                  | <b>Trunking lengths</b>  |            |                 |             |   |   |      |   |   |      |
|            |                  | Trunking lengths push fit into each other, and feed units. Trunking lengths can be suspended using the various bracket options   |            |                 |             |   |   |      |   |   |      |
|            |                  | <table border="1"> <thead> <tr> <th>Length (m)</th> <th>Tap-off outlets</th> <th>Weight (kg)</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>6</td> <td>4.47</td> </tr> <tr> <td>2</td> <td>4</td> <td>3.27</td> </tr> </tbody> </table> | Length (m) | Tap-off outlets | Weight (kg) | 3 | 6 | 4.47 | 2 | 4 | 3.27 |
| Length (m) | Tap-off outlets  | Weight (kg)  |            |                 |             |   |   |      |   |   |      |
| 3          | 6                | 4.47   |            |                 |             |   |   |      |   |   |      |
| 2          | 4                | 3.27   |            |                 |             |   |   |      |   |   |      |
| 1          | 25 A<br>BBA3145C |  |            |                 |             |   |   |      |   |   |      |
| 1          | BBA2145C         |  |            |                 |             |   |   |      |   |   |      |
| 1          | 40 A<br>CCA3145C |  |            |                 |             |   |   |      |   |   |      |
| 1          | CCA2145C         |  |            |                 |             |   |   |      |   |   |      |

| Pack       | Cat. Nos.       | <b>Electrak 30<br/>2 P + E without comms</b>   |            |                 |             |   |   |      |   |   |      |
|------------|-----------------|--|------------|-----------------|-------------|---|---|------|---|---|------|
|            |                 | 2P + E busbar (power only) trunking system<br>Socket outlets colour coded white  |            |                 |             |   |   |      |   |   |      |
|            |                 | <b>Trunking lengths</b>  |            |                 |             |   |   |      |   |   |      |
|            |                 | Trunking lengths push fit into each other, and feed units or flexible lengths. Trunking lengths can be surface mounted suspended using the various bracket options   |            |                 |             |   |   |      |   |   |      |
|            |                 | <table border="1"> <thead> <tr> <th>Length (m)</th> <th>Tap-off outlets</th> <th>Weight (kg)</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>6</td> <td>4.47</td> </tr> <tr> <td>2</td> <td>4</td> <td>3.27</td> </tr> </tbody> </table> | Length (m) | Tap-off outlets | Weight (kg) | 3 | 6 | 4.47 | 2 | 4 | 3.27 |
| Length (m) | Tap-off outlets | Weight (kg)  |            |                 |             |   |   |      |   |   |      |
| 3          | 6               | 4.47   |            |                 |             |   |   |      |   |   |      |
| 2          | 4               | 3.27   |            |                 |             |   |   |      |   |   |      |
| 1          | 25 A<br>BBA3145 |  |            |                 |             |   |   |      |   |   |      |
| 1          | BBA2145         |  |            |                 |             |   |   |      |   |   |      |
| 1          | 40 A<br>CCA3145 |  |            |                 |             |   |   |      |   |   |      |
| 1          | CCA2145         |  |            |                 |             |   |   |      |   |   |      |

| Pack       | Cat. Nos.   | <b>Feed units (with comms)</b>  |  |             |           |      |            |      |           |      |            |      |
|------------|-------------|---|--|-------------|-----------|------|------------|------|-----------|------|------------|------|
|            |             | Feed units come with 2 x 25 mm Ø and 2 x 16 mm Ø cable entry holes and single screw cable terminals for power and data<br>Left feed units are supplied with right end stop<br>Right feed units are supplied with left end stop  |  |             |           |      |            |      |           |      |            |      |
|            |             | <b>Suspended</b>  |  |             |           |      |            |      |           |      |            |      |
|            |             | <table border="1"> <thead> <tr> <th></th> <th>Weight (kg)</th> </tr> </thead> <tbody> <tr> <td>25 A left</td> <td>1.22</td> </tr> <tr> <td>25 A right</td> <td>1.49</td> </tr> <tr> <td>40 A left</td> <td>1.27</td> </tr> <tr> <td>40 A right</td> <td>1.49</td> </tr> </tbody> </table> |  | Weight (kg) | 25 A left | 1.22 | 25 A right | 1.49 | 40 A left | 1.27 | 40 A right | 1.49 |
|            | Weight (kg) |   |  |             |           |      |            |      |           |      |            |      |
| 25 A left  | 1.22        |   |  |             |           |      |            |      |           |      |            |      |
| 25 A right | 1.49        |   |  |             |           |      |            |      |           |      |            |      |
| 40 A left  | 1.27        |   |  |             |           |      |            |      |           |      |            |      |
| 40 A right | 1.49        |   |  |             |           |      |            |      |           |      |            |      |
| 1          | BBA14LFC    |   |  |             |           |      |            |      |           |      |            |      |
| 1          | BBA14RFC    |   |  |             |           |      |            |      |           |      |            |      |
| 1          | CCA14LFC    |   |  |             |           |      |            |      |           |      |            |      |
| 1          | CCA14RFC    |   |  |             |           |      |            |      |           |      |            |      |

| Pack       | Cat. Nos.   | <b>Feed units<br/>(without comms – power only)</b>  |  |             |           |      |            |      |           |      |            |      |
|------------|-------------|---|--|-------------|-----------|------|------------|------|-----------|------|------------|------|
|            |             | Feed units come with 2 x 25 mm Ø cable entry holes and single screw cable terminals<br>Left feed units are supplied with right end stop<br>Right feed units are supplied with left end stop   |  |             |           |      |            |      |           |      |            |      |
|            |             | <b>Suspended</b>  |  |             |           |      |            |      |           |      |            |      |
|            |             | <table border="1"> <thead> <tr> <th></th> <th>Weight (kg)</th> </tr> </thead> <tbody> <tr> <td>25 A left</td> <td>1.22</td> </tr> <tr> <td>25 A right</td> <td>1.49</td> </tr> <tr> <td>40 A left</td> <td>1.27</td> </tr> <tr> <td>40 A right</td> <td>1.49</td> </tr> </tbody> </table> |  | Weight (kg) | 25 A left | 1.22 | 25 A right | 1.49 | 40 A left | 1.27 | 40 A right | 1.49 |
|            | Weight (kg) |   |  |             |           |      |            |      |           |      |            |      |
| 25 A left  | 1.22        |   |  |             |           |      |            |      |           |      |            |      |
| 25 A right | 1.49        |   |  |             |           |      |            |      |           |      |            |      |
| 40 A left  | 1.27        |   |  |             |           |      |            |      |           |      |            |      |
| 40 A right | 1.49        |   |  |             |           |      |            |      |           |      |            |      |
| 1          | BBA14LF     |   |  |             |           |      |            |      |           |      |            |      |
| 1          | BBA14RF     |   |  |             |           |      |            |      |           |      |            |      |
| 1          | CCA14LF     |   |  |             |           |      |            |      |           |      |            |      |
| 1          | CCA14RF     |   |  |             |           |      |            |      |           |      |            |      |

# Electrak® 32 4P + E (dual circuit) buscom trunking

power and communication distribution



CCC3145C



CCC2145C



CCC14RFC

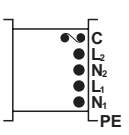


CCC14LFC

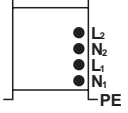
 Dimensions and technical information p. 68-73

Integral communication bus suitable for KNX, Lonworks, DALI protocols, etc. 25 A and 40 A systems  
IP 4X ingress protection  
Fast installation (trunking push fits together in seconds). High quality materials

| Pack | Cat. Nos. | <b>Electrak 32<br/>4P + E (dual circuit) with comms</b>  |
|------|-----------|--|
|      |           | Dual circuit buscom trunking system with integral communications bus circuit<br>Socket outlets colour coded white              |
|      |           | <b>Trunking lengths</b>  |
|      |           | Trunking lengths push fit into each other, and feed units. Trunking lengths can be suspended using the various bracket options |
|      | 25 A      |  |
| 1    | BBC3145C  | Length (m)   3   |
| 1    | BBC2145C  | Tap-off outlets   6  |
|      |           | Weight (kg)   4.77   |
|      | 40 A      |  |
| 1    | CCC3145C  | Length (m)   3   |
| 1    | CCC2145C  | Tap-off outlets   6  |
|      |           | Weight (kg)   4.97   |
|      |           | Weight (kg)   3.61   |



| Pack | Cat. Nos. | <b>Electrak 32<br/>4P + E (dual circuit) without comms</b>   |
|------|-----------|--|
|      |           | Dual circuit busbar trunking system<br>Socket outlets colour coded white   |
|      |           | <b>Trunking lengths</b>  |
|      |           | Trunking lengths push fit into each other, and feed units. Trunking lengths can be suspended using the various bracket options |
|      | 25 A      |  |
| 1    | BBC3145   | Length (m)   3   |
| 1    | BBC2145   | Tap-off outlets   6  |
|      |           | Weight (kg)   4.77   |
|      | 40 A      |  |
| 1    | CCC3145   | Length (m)   3   |
| 1    | CCC2145   | Tap-off outlets   6  |
|      |           | Weight (kg)   4.97   |
|      |           | Weight (kg)   3.61   |



| Pack | Cat. Nos. | <b>Feed units (with comms)</b>   |
|------|-----------|--|
|      |           | Feed units come with 2 x 25 mm Ø and 2 x 16 mm Ø cable entry holes and single screw cable terminals for power and data<br>Left feed units are supplied with right end stop<br>Right feed units are supplied with left end stop |
|      |           | <b>Suspended</b>   |
|      |           | Weight (kg)  |
| 1    | BBC14LFC  | 25 A left   1.29   |
| 1    | BBC14RFC  | 25 A right   1.52  |
| 1    | CCC14LFC  | 40 A left   1.38   |
| 1    | CCC14RFC  | 40 A right   1.61  |

| Pack | Cat. Nos. | <b>Feed units (without comms – power only)</b>  |
|------|-----------|---|
|      |           | Feed units come with 2 x 25 mm Ø cable entry holes and single screw cable terminals<br>Left feed units are supplied with right end stop<br>Right feed units are supplied with left end stop |
|      |           | <b>Suspended</b>  |
|      |           | Weight (kg)   |
| 1    | BBC14LF   | 25 A left   1.29  |
| 1    | BBC14RF   | 25 A right   1.52   |
| 1    | CCC14LF   | 40 A left   1.38  |
| 1    | CCC14RF   | 40 A right   1.61   |



For the full Buscom range please see the Lightrak lighting control catalogue, visit [www.legrand.co.uk/downloads](http://www.legrand.co.uk/downloads)



# Electrak® buscom trunking tap-offs

power and communication distribution



DDJ45C



DDJ45



DDK4F

Dimensions and technical information p. 68-73

| Pack | Cat. Nos. | Tap-off units with comms  |                |             |
|------|-----------|---|----------------|-------------|
|      |           | Tap-offs with comms can only be plugged into outlets that have the comms facility                 |                |             |
|      |           | <b>16 A unfused tap-off units</b>   |                |             |
|      |           | Pre-wired tap-off units to pick up L1+N1 or L2+N2, colour coded white                             |                |             |
|      |           | Length (m)  | Fixed polarity | Weight (kg) |
| 1    | DDE43C    | 3   | L1 + N1        | 0.5         |
| 1    | DDE45C    | 5   |                | 0.6         |
| 1    | DDJ43C    | 3   | L2 + N2        | 0.5         |
| 1    | DDJ45C    | 5   |                | 0.6         |
|      |           | <b>13 A fused tap-off units</b>   |                |             |
|      |           | Pre-wired tap-off units to pick up L1+N1 or L2+N2, supplied with BS 1362 fuse, colour coded white |                |             |
|      |           | Length (m)  | Fixed polarity | Weight (kg) |
| 1    | DDE43FC   | 3   | L1 + N1        | 0.5         |
| 1    | DDE45FC   | 5   |                | 0.6         |
| 1    | DDJ43FC   | 3   | L2 + N2        | 0.5         |
| 1    | DDJ45FC   | 5   |                | 0.6         |

| Pack | Cat. Nos. | Tap-off units without comms (power only)  |                |             |
|------|-----------|---|----------------|-------------|
|      |           | Power only tap-offs can plug into any tap-off outlet  |                |             |
|      |           | <b>16 A unfused tap-off units</b>   |                |             |
|      |           | Pre-wired tap-off units to pick up L1+N1 or L2+N2, colour coded white                             |                |             |
|      |           | Length (m)  | Fixed polarity | Weight (kg) |
| 1    | DDE43     | 3   | L1 + N1        | 0.5         |
| 1    | DDE45     | 5   |                | 0.6         |
| 1    | DDJ43     | 3   | L2 + N2        | 0.5         |
| 1    | DDJ45     | 5   |                | 0.6         |
|      |           | <b>13 A fused tap-off units</b>   |                |             |
|      |           | Pre-wired tap-off units to pick up L1+N1 or L2+N2, supplied with BS 1362 fuse, colour coded white |                |             |
|      |           | Length (m)  | Fixed polarity | Weight (kg) |
| 1    | DDE43F    | 3   | L1 + N1        | 0.5         |
| 1    | DDE45F    | 5   |                | 0.6         |
| 1    | DDJ43F    | 3   | L2 + N2        | 0.5         |
| 1    | DDJ45F    | 5   |                | 0.6         |

| Pack | Cat. Nos. | Tap-off units without comms – rewirable   |             |
|------|-----------|---|-------------|
|      |           | <b>16 A unfused tap-off units</b>   |             |
|      |           | Rewirable tap-off units to pick up required circuit, colour coded white, can plug into any tap-off outlet                             |             |
|      |           | Fixed polarity  | Weight (kg) |
| 1    | DDF4      | L1 + N1   | 0.14        |
| 1    | DDK4      | L2 + N2   | 0.14        |
|      |           | <b>13 A fused tap-off units</b>   |             |
|      |           | Rewirable tap-off units to pick up required circuit, supplied with BS 1362 fuse, colour coded white, can plug into any tap-off outlet |             |
|      |           | Fixed polarity  | Weight (kg) |
| 1    | DDF4F     | L1 + N1   | 0.14        |
| 1    | DDK4F     | L2 + N2   | 0.14        |

## Electrak® buscom trunking accessories

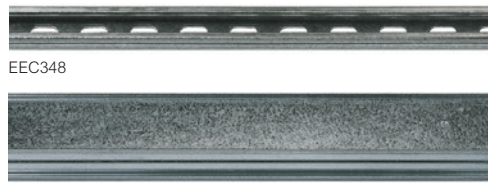
### fixings and ancillary items



EEA308



EEA312



EEC348



EEC356



EEB340



EEB344



EEA328



EEA324



EEC352



EEC364



Dimensions and technical information p. 68-73

Brackets are manufactured from robust galvanised steel, ensuring that the entire installation can be expected to stand up to all normal site conditions

| Pack | Cat. Nos. | Fixings  |
|------|-----------|--|
| 1    | EEA308    | Trunking suspended fixing bracket  |
| 1    | EEA312    | Trunking suspended fixing bracket c/w cable duct stirrup. Used when running cable duct on top of buscom trunking |
| 1    | EEA324    | Luminaire suspension fixing bracket  |
| 1    | EEA328    | Luminaire 45 mm edge suspension fixing bracket (clip on)   |
| 1    | EEB340    | Open hook luminaire suspended bracket  |
| 1    | EEB344    | Closed ring on luminaire   |
| 1    | EEC348    | Cable duct 3 m long x 50 mm(w) x 13 mm(h)  |
| 1    | EEC357    | Joint bracket cable duct   |
| 1    | EEC352    | Cable duct fixing bracket  |

| Pack | Cat. Nos. | Ancillary items   |
|------|-----------|---|
| 1    | EEC356    | 2 m empty length for adjusting the length at the end of a run (to be cut)                             |
| 1    | EEC364    | Joint sleeve is used if load is hung off trunking joint or near when joint is centre of a fixing span |
| 1    | EEC366    | Left hand end stop spare  |
| 1    | EEC368    | Right hand end stop spare   |



For the full Buscom range please see the Lightrak lighting control catalogue, visit [www.legrand.co.uk/downloads](http://www.legrand.co.uk/downloads)



# Electrak® buscom trunking

## technical information

### Standards



Intertek

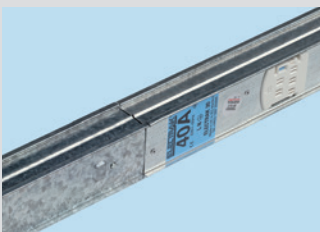
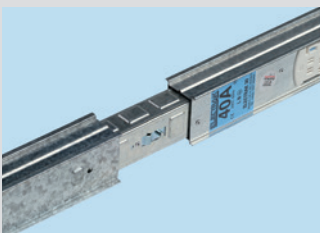
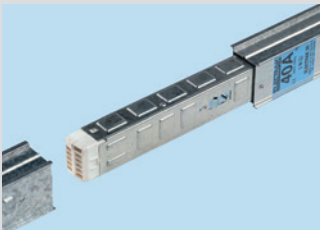
ASTA approved to BS EN 61439-6  
 Designed to meet the requirements of BS EN 61534-22 : 2014  
 Manufactured within an approved ISO 9001 : 2015 and  
 ISO 14001 : 2015  
 Assessed Quality Assurance Certificate No. 10679  
 Electrak Buscom fully complies with the requirements of BS 7671 : 2018

### Buscom trunking options

- L
- N
- PE
- L2
- N2
- L1
- N1
- PE
- Communication bus

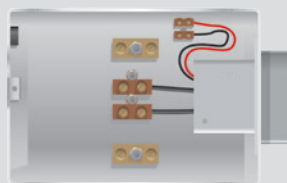
Electrak buscom trunking can be used with Electrak's cost effective lighting control system, Lightrak KNX, or any other systems using control protocols such as KNX, Lonworks, DALI, etc.  
 Electrak's overhead trunking couples high quality engineering with rigidity of design, and provides power for a variety of applications including lighting, heating and ventilation. The robust easy fix modular system permits loads to be suspended directly from the trunking using Electrak's various fixing brackets  
 Push fit connection keeps installation costs to a minimum

### Track lengths simply push fit together



### Feed units

25 A rated - max. conductor size 6 mm<sup>2</sup>  
 40 A rated - max. conductor size 16 mm<sup>2</sup>  
 IP 4X galvanised steel



2 pole + earth + comms  
 Comms bus  
 Max. conductor size 1.5 mm<sup>2</sup>  
 Red +  
 Black -

| Electrical test data                         | 25 A    | 40 A    | UOM  |
|--|---------|---------|------|
| Derating factor for Electrak 32 single sided | –       | 0.8     | –    |
| Rated operational voltage (Ue)               | 230/400 | 230/400 | V~   |
| Rated insulation voltage (Ui)                | 500     | 500     | V~   |
| Frequency (f)                                | 50      | 50      | Hz   |
| Rated impulse withstand voltage              | 4.0     | 4.0     | KV   |
| Busbar resistance (R <sub>20</sub> )         | 3.9     | 2.7     | mΩ/m |
| Resistance (R <sub>1</sub> )                 | 4.2     | 3.0     | mΩ/m |
| Impedance (Z <sub>1</sub> )                  | 4.8     | 3.4     | mΩ/m |
| Reactance (X <sub>1</sub> )                  | 2.5     | 1.6     | mΩ/m |
| Protective conductor                         | 1.5     | 1.5     | mΩ/m |

| Volt drops                                  | 25 A | 40 A | UOM    |
|---|------|------|--------|
| Live and neutral : busbars                  | 9.0  | 6.0  | mV/A/m |
| (R <sub>1</sub> +R <sub>2</sub> ) Feed unit | 3.0  | 2.4  | mV/A   |
| Tap-off 0.8 m                               | 22.0 | 22.0 | mV/A   |
| Tap-off 2.0 m                               | 52.0 | 52.0 | mV/A   |

| Earth fault loop   | 25 A  | 40 A | UOM  |
|--|-------|------|------|
| Impedance : busbar   | 4.5   | 3.0  | mΩ/m |
| Earth housing  | 1.5   | 1.5  | mΩ/m |
| Feed unit  | 2.4   | 2.4  | mΩ   |
| Tap-off 0.8m   | 23.0  | 23.0 | mΩ   |
| Tap-off 2.0m   | 53.0  | 53.0 | mΩ   |
| Rated conditional short-circuit current (I <sub>cc</sub> )     | 16.0  | 16.0 | KA   |
| Rated short time withstand current (I <sub>cw</sub> ) at 1 sec | 0.65  | 1.0  | KA   |
| Rated peak short-circuit current (I <sub>pk</sub> )            | 0.975 | 1.5  | KA   |
| Ambient temperature  | 35.0  | 35.0 | °C   |

| Mechanical data                       | 25 A | 40 A | UOM             |
|---------------------------------------|------|------|-----------------|
| Number of conductors                  | 2.6  | 2.6  | –               |
| Busbar conductor cross-sectional area | 4.0  | 6.0  | mm <sup>2</sup> |
| Cable terminal capacity               | 6.0  | 16.0 | mm <sup>2</sup> |
| Cable terminal capacity bus           | 1.5  | 1.5  | mm <sup>2</sup> |
| Tap-off cable 16 A                    | 1.5  | 1.5  | mm <sup>2</sup> |
| Tap-off cable 13 A fused              | 1.5  | 1.5  | mm <sup>2</sup> |
| Tap-off entry                         | 16.0 | 16.0 | mmØ             |
| Feed unit entry holes power           | 25.0 | 25.0 | mmØ             |
| Feed unit entry holes bus             | 16.0 | 16.0 | mmØ             |
| IP rating                             | 4 X  | 4 X  | –               |

Direct protection by enclosure. Indirect protection by protective circuit

All dimensions (mm) are nominal

# Electrak® buscom trunking

## technical data

| Communication control circuit                                    |  |
|--|--|
| Type   | Bus cable (LSOH)                                 |
| Construction   | Sheathed 0.5 mm <sup>2</sup> copper twisted pair |
| Insulation - conductor   | Flame retardant low emission HCL                 |
| Sheath   | LSOH material                                    |
| Rated insulation voltage (Ui)<br>(between power circuit and bus) | 500 V  |
| Max. bus operating voltage                                       | 50 V   |
| Max. bus operating current                                       | 0.65 A   |
| Max. conductor resistance (@20°C)                                | 73.2 Ω/km  |
| Max. mutual capacitance  | 100 nf/km  |
| Material specifications  |  |
| Buscom trunking housing  | Galvanised steel                                 |
| Busbars  | High conductivity copper                         |
| Busbar insulator   | Flame retardant LSOH to BS 7211                  |
| Trunking connector / tap-off entry box / cable connector         | Flame retardant polycarbonate                    |
| Tap-off housing  | Flame retardant polycarbonate                    |
| Trunking connector blades / tap-off blades                       | Copper   |
| Feed unit IP 4X  | Galvanised steel                                 |
| Feed unit IP 54  | ABS  |
| Flexible length conduit  | Flame retardant LSOH nylon                       |
| Feed unit terminals / earth block                                | Brass  |
| Brackets   | Galvanised steel                                 |
| 13 A tap-off, fuse   | To BS 1362, ASTA approved                        |

### Durability

Electrak power and communications distribution systems are well designed and extremely robust. They can be expected to stand up to all normal site conditions. Electrak Buscom has been short circuit strength tested by ASTA

### Earth fault loop impedance

BS 7671 : 2018 require accurate determination of the total earth loop impedance, which must be sufficiently low to allow the protective device to operate within the specified time, which for socket outlets is 0.4 seconds

The values relevant to Electrak Buscom for calculating the earth fault loop impedance are shown in the electrical test data table, see opposite

### Buscom trunking rating in ambient temperatures

| Average ambient air temperature | 25°C | 30°C | 35°C | 40°C | 45°C | 50°C |
|---------------------------------|------|------|------|------|------|------|
| Rating factor (K1)              | 1.1  | 1.05 | 1    | 0.95 | 0.90 | 0.85 |

For ambient temperatures other than 35°C apply the multiplier factor K1 to the rated current

### Buscom trunking mechanical loading

For point loads and evenly distributed loads the maximum weight that can be supported is given below

#### Maximum loading for suspended buscom trunking

| Fixing distance (m)                                    | 1.5 | 2  | 2.5 | 3  | 3.5 | 4  |
|--|-----|----|-----|----|-----|----|
| Max. point load (deflection = 1/500 x span) (Kg)       | 20  | 17 | 13  | 12 | 9   | 7  |
| Max. distributed load (deflection = 1/500 x span) (Kg) | 33  | 28 | 22  | 20 | 15  | 12 |
| Max. point load (deflection = 1/350 x span) (Kg)       | 33  | 24 | 18  | 16 | 10  | 9  |
| Max. distributed load (deflection = 1/350 x span) (Kg) | 55  | 40 | 30  | 26 | 16  | 15 |

### Notes

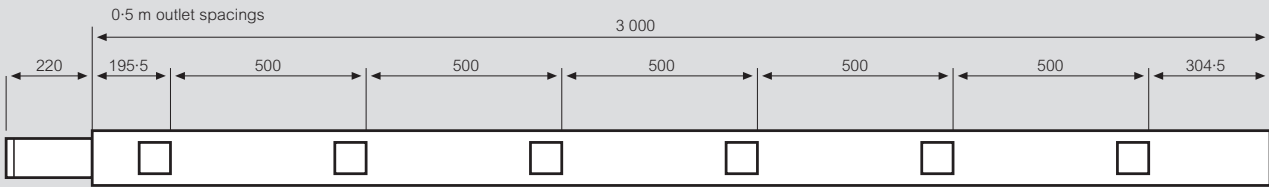
- Where trunking joints occur in the middle of the suspension span, and weight is to be suspended from that point, it is recommended to use a strengthening bracket EEC364 over the joint to stop deflection
- If the load requirements exceed the above figures, please contact us on +44 (0) 370 608 9020  
For design information and technical specification, please contact us on +44 (0) 370 608 9020  
Suspension rods and fixings should be of suitable size to carry the weight of both the track and suspended load

# Electrak® buscom trunking

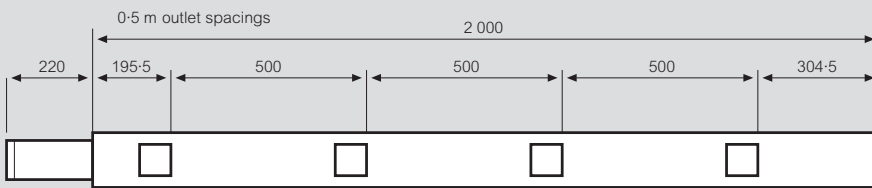
## dimensions

### ■ Fixing dimensions

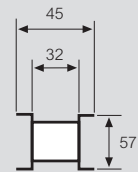
#### Buscom trunking 3 m



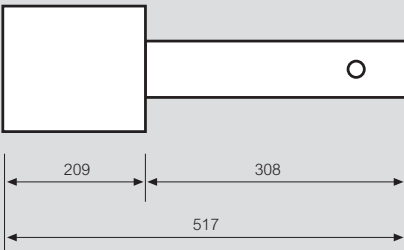
#### Buscom trunking 2 m



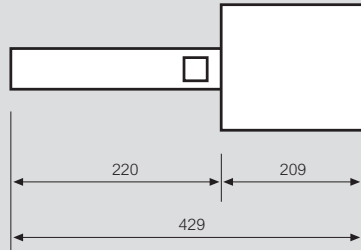
#### Buscom trunking end view



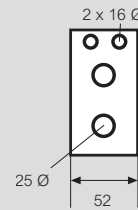
#### Feed unit – left



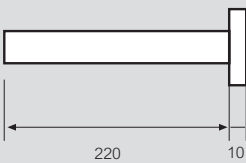
#### Feed unit – right



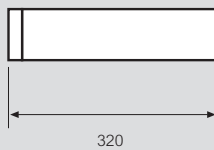
#### Suspended feed unit



#### End stop – right

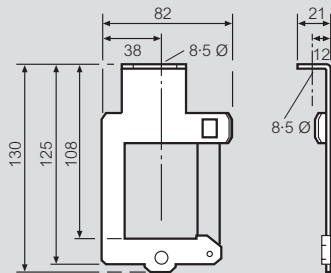


#### End stop – left

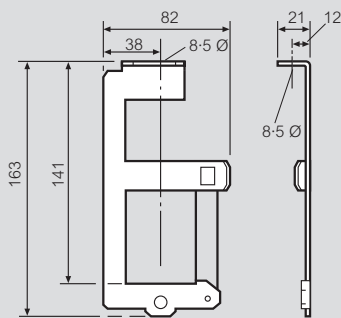




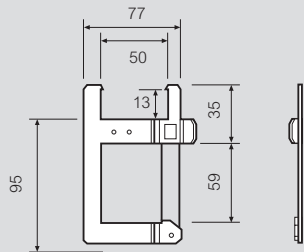
**Cat. No. EEA308 Suspended trunking fixing bracket**



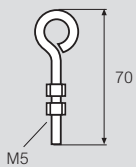
**Cat. No. EEA312 Suspended trunking fixing bracket cable duct stirrup**



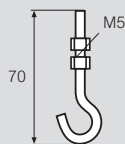
**Cat. No. EEC352 Cable duct fixing bracket**



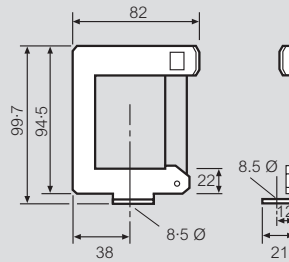
**Cat. No. EEB344 Closed ring hook**



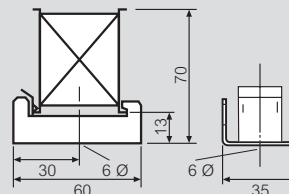
**Cat. No. EEB340 Open hook**



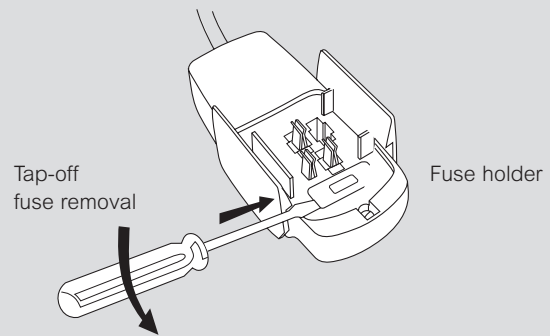
**Cat. No. EEA324 Luminaire suspended fixing bracket**



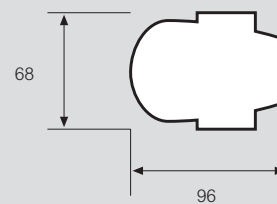
**Cat. No. EEA328 Luminaire 45 mm edge suspension fixing bracket**



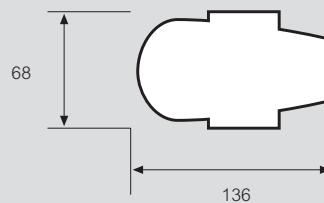
**Fused tap-off**



**Pre-wired tap-offs – 33 mm deep**



**Rewirable and phase selection tap-offs – 35 mm deep**



# Electrak® buscom trunking

## installation

### ■ Design and installation

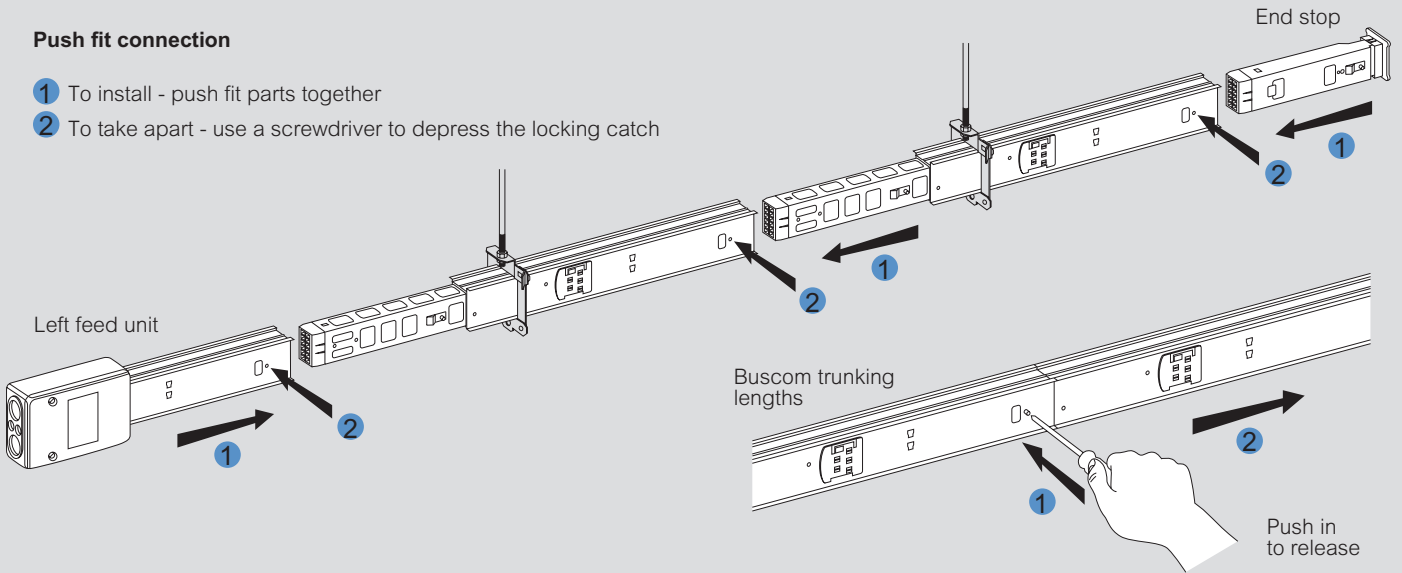
Electrak Buscom trunking system comprises continuous lengths of galvanised steel trunking available in 2 m and 3 m lengths with integral connectors and regular tap-off outlets

Each trunking run commences with a feed unit for electrical and comms bus cable termination. The connection between the trunking, the feed unit and subsequent trunking lengths is push fit and requires no tools to terminate the connection or ensure good earthing. Each complete track run is finished with an end stop

The trunking system is supplied with IP 4X ingress protection, fully factory tested and ASTA approved to BS EN 61439-6 : 2011 and is designed to meet the requirements of BS EN 61534-22 : 2014

#### Push fit connection

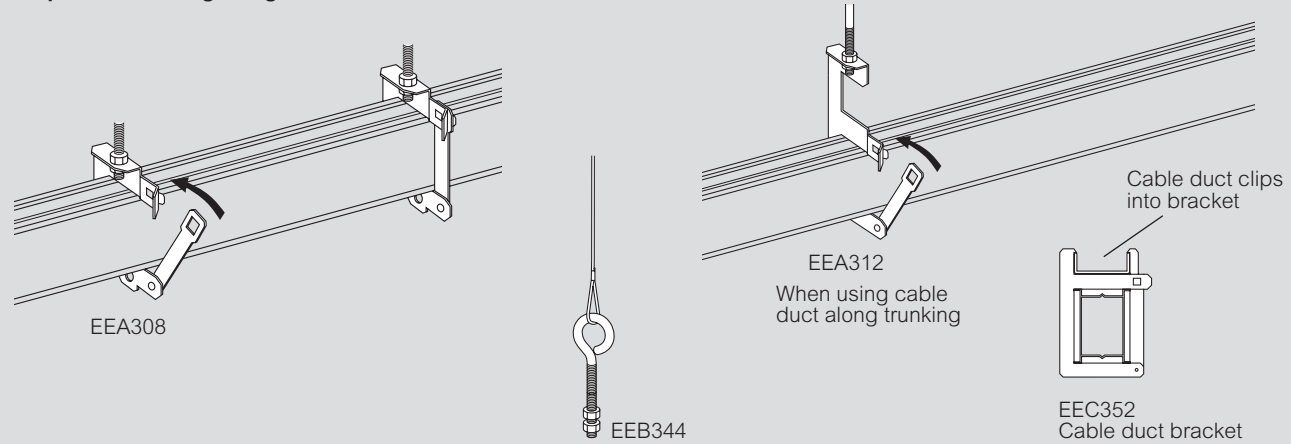
- 1 To install - push fit parts together
- 2 To take apart - use a screwdriver to depress the locking catch



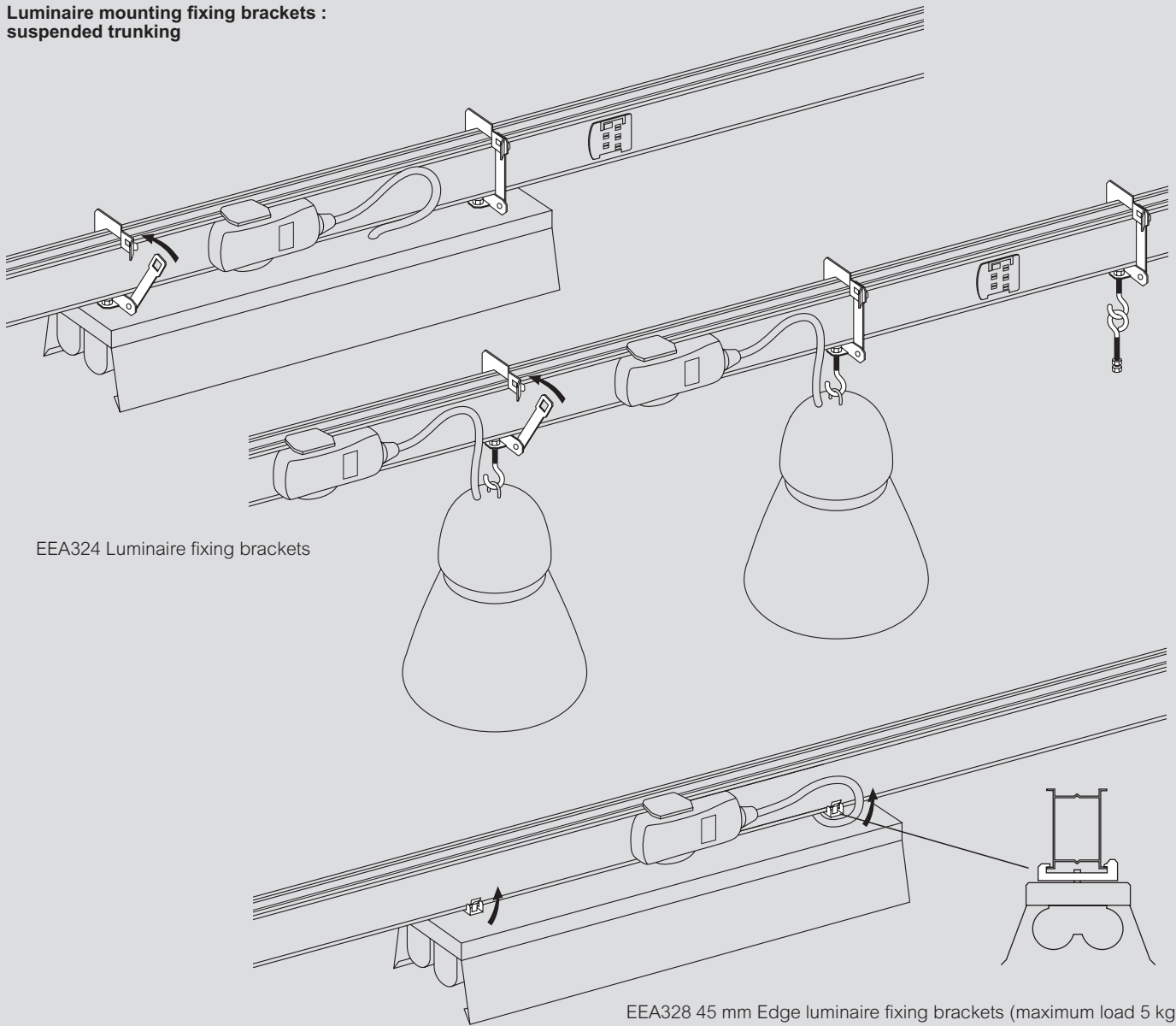
#### Considerations before installation

Calculate the distance between fixing brackets - the maximum fixing distance should not exceed 4 m. If loads are to be hung, please consult loading charts on page 69. The maximum buscom trunking weight is 2 kg/m. When fixing brackets to drop rods or surfaces, see mounting details below

#### Suspended trunking fixing brackets



Luminaire mounting fixing brackets :  
suspended trunking



EEA324 Luminaire fixing brackets

EEA328 45 mm Edge luminaire fixing brackets (maximum load 5 kg)

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