

# POWERING THE WORKSTATION

UNDERFLOOR  
TO WORKSTATION  
POWER AND DATA  
DISTRIBUTION  
SYSTEMS

THE GLOBAL SPECIALIST  
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

**ELECTRAK®**

# Global strength

## built on local knowledge

Legrand is the global specialist in electrical and digital building infrastructures. Innovation is the driving force behind its development. With an increasing investment in research and development (circa 5% of sales) and more than 4,000 active patents, the Legrand Group is focused on maintaining a high rate of new product launches that present innovative solutions to the market.

### 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.



### SUSTAINABLE DEVELOPMENT



From design through to manufacturing, the Legrand Group selects materials and processes that respect people and the environment.

- Efficient and environmentally aware product design
- Product functions that help to avoid energy waste
- Management of manufacturing and logistics sites
- Integration of environmental concerns and ISO 14001 procedures at the Group's global sites\*

\* 84% of sites are ISO 14001:2004 accredited including all UK sites.





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# Electrak<sup>®</sup> ...

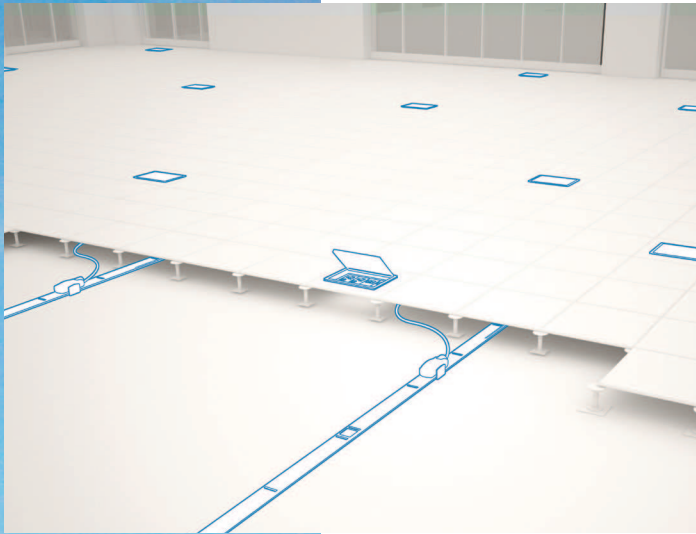
the specialist in power distribution  
throughout the workplace

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, grommets, desk modules and lighting control ranges are installed in high specification offices around the world.





# POWERING THE WORKSTATION



## UNDERFLOOR POWER

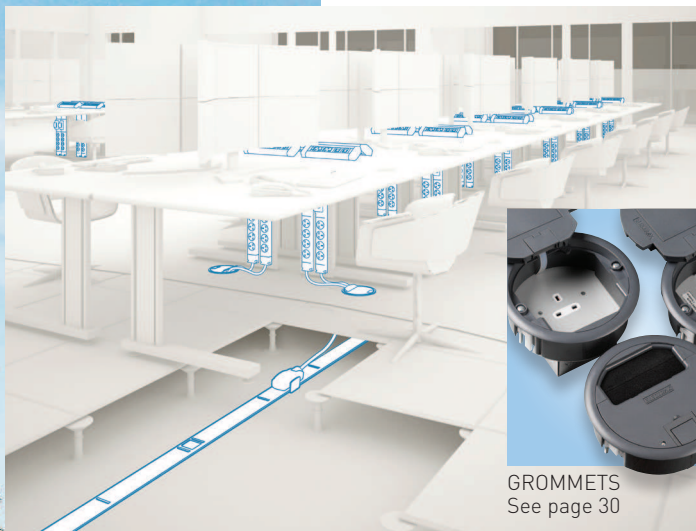
Electrak's power track system is perfect for supplying underfloor power in cavity floor installations. With minimal parts, push-fit assembly and a complementary range of floor boxes, this flexible, easy to install system can be reconfigured as office layouts evolve.



POWER TRACK  
See page 6



CAVITY FLOOR BOXES  
See page 22



## WORKSTATION POWER

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



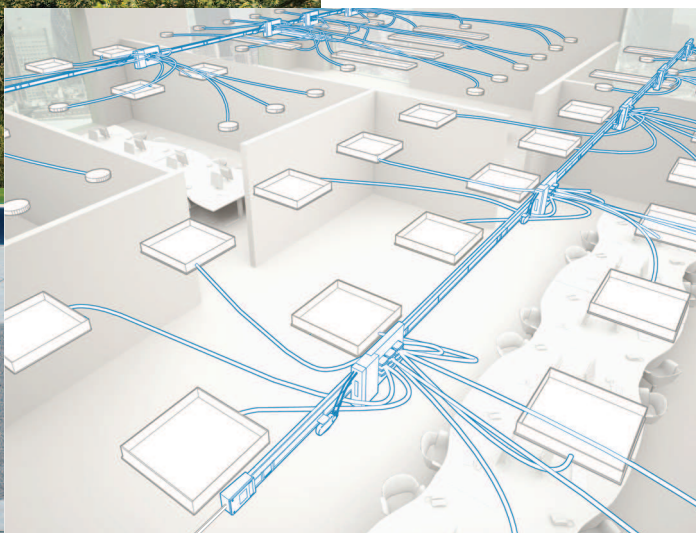
GROMMETS  
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INTERSOC-R  
See page 34



INTERSOC ON-DESK  
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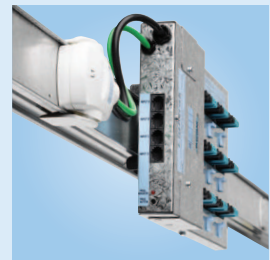
## FULLY ADDRESSABLE LIGHTING CONTROL

Designed to work in harmony with Electrak's buscom trunking, Lightrak's lighting control system offers high end sophistication with unbeatable flexibility and speed of installation.

Find out more at [www.legrand.co.uk/electrak](http://www.legrand.co.uk/electrak)



BUSCOM  
power and data backbone



LIGHTRAK  
lighting control system



# Electrak<sup>®</sup> ...

## UK manufacturing. Global recognition



### OVER 30 YEARS OF 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.

### QUALITY ASSURED UK MANUFACTURING

With its Electrak ranges manufactured from its UK manufacturing base situated in the North East of England, Legrand adapts to the changing demands of projects by providing a rapid production process whilst ensuring quality meets the highest standards.



# 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
- Fort Dunlop, Birmingham
- Royal Bank of Canada, City of 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

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





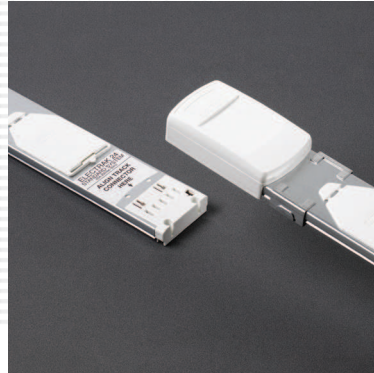


# Powertrack...

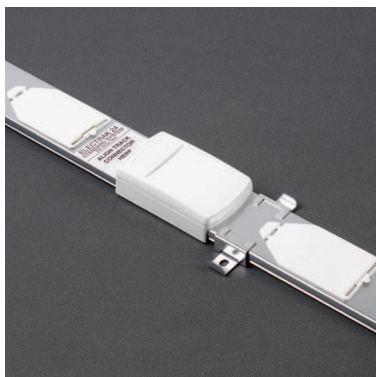
## adaptable, reliable underfloor power



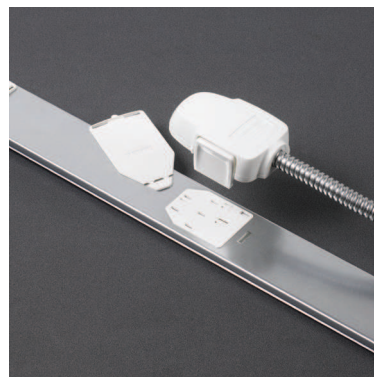
Integral track connector plugs into feed unit



Lengths simply push-fit together



Integral fixing brackets for rapid installation



Tap-offs plug in to shuttered socket outlets and lock on to track body

### THE INDUSTRY STANDARD IN UNDERFLOOR POWER




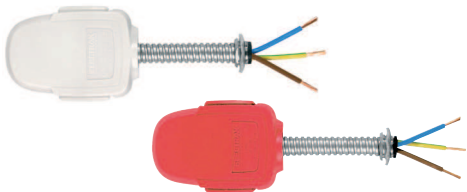
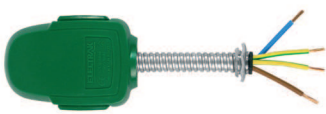
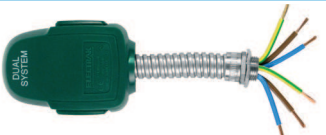
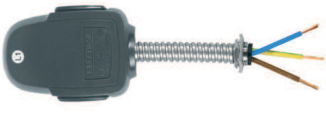
Electrak powertrack / underfloor busbar is perfect for cavity floor installations. With minimal parts, push-fit assembly and a complementary range of floor boxes and grommets, this flexible, easy to install system can be reconfigured as office layouts evolve.

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.







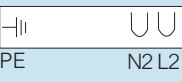

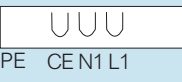

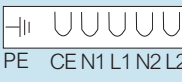

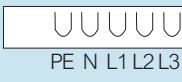

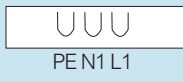
- 63 A rated, IP 40 protection
- Available in five versions: single phase, clean earth, dual circuit, three phase and auxiliary earth
- Tinned busbar version available for use within Abu Dhabi (see page 15)
- Available in 1.2m, 1.8m, 2.4m and 3.6m lengths
- Tap-off outlets are located at every 300 or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

# Electrak® powertrack / underfloor busbar

## 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		
	Flexible metal conduit		
<b>Standard tap-off / auxillary 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> Standard system (white)		<b>ELECTRAK 25</b> Low noise / clean earth system (green)		<b>ELECTRAK 26</b> Dual circuit system (dark green)		<b>ELECTRAK 27</b> 3 phase system (grey)		<b>ELECTRAK 28</b> Auxillary earth 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. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008  
Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations  
A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Track system components
		<b>Electrak 24 standard 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	DA1123	1·2 m, 4 outlets, 2 floor fixing brackets
1	DA1183	1·8 m, 6 outlets, 2 floor fixing brackets
1	DA1243	2·4 m, 8 outlets, 2 floor fixing brackets
1	DA1363	3·6 m, 12 outlets, 3 floor fixing brackets
		<b>Track feed unit</b>
1	DF1010	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	DW1000	Excluding cables and conduit
1	DW1010	1·2 m flexible metal conduit
1	DW1020	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

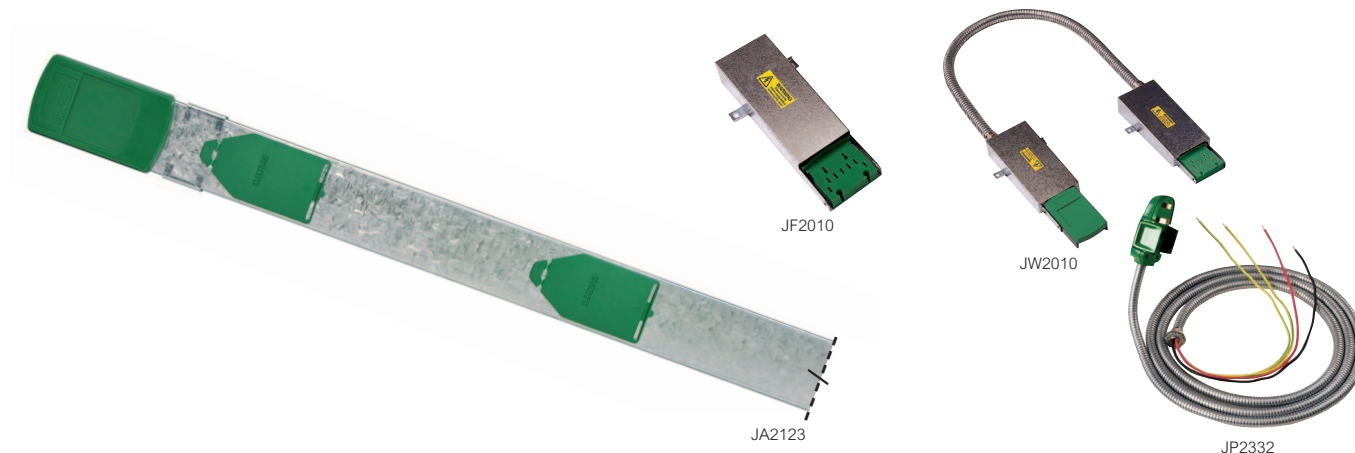
Pack	Cat. Nos.	Tap-off units
		Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2·6 m of flexible metal conduit <sup>1</sup> Tap-off units in excess of 3 m should only be used if they contain a fuse or if the power track is protected by a protective device not exceeding 32 A
		<b>32 A unfused</b>
		16 mm Ø, L, N, PE
1	DP1332	3 m
1	DP1532	5 m
		<b>13 A fused</b>
		16 mm Ø, L, N, PE
1	DP1313	3 m
1	DP1513	5 m
		<b>13 A 543·7 fused - high integrity</b>
		16 mm Ø, L, N, PE
1	DP1327	3 m
1	DP1527	5 m

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 845 600 6266



# Electrak® 25 powertrack / underfloor busbar system

low noise / clean earth system (green)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008

Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations

A compact system that can be installed in floor voids as low as 48 mm

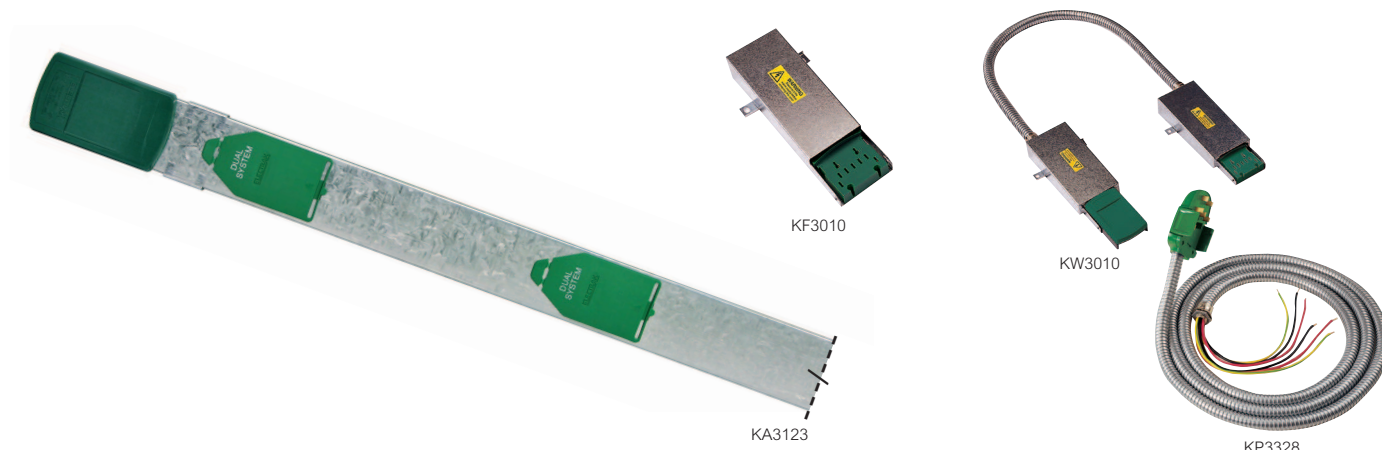
Pack	Cat. Nos.	Track system components
		<b>Electrak 25 low noise / clean earth track lengths</b>
		Track lengths fit together using the integral connectors on each length Track lengths should always be secured using the integral floor fixing brackets 300 mm socket centres
1	JA2123	1.2 m, 4 outlets, 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>
		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>
		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 power track is protected by a protective device not exceeding 32 A
		<b>32 A unfused</b>
		16 mm Ø, CE, L, N, PE
1	JP2332	3 m
1	JP2532	5 m
		<b>13 A fused</b>
		16 mm Ø, CE, L, N, PE
1	JP2313	3 m
1	JP2513	5 m
		<b>13 A 543-7 fused - high integrity</b>
		16 mm Ø, CE, L, N, PE
1	JP2327	3 m
1	JP2527	5 m

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 845 600 6266

# Electrak® 26 powertrack / underfloor busbar system

dual circuit system (dark green)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008  
Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations  
A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Track system components
		The dual power track 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

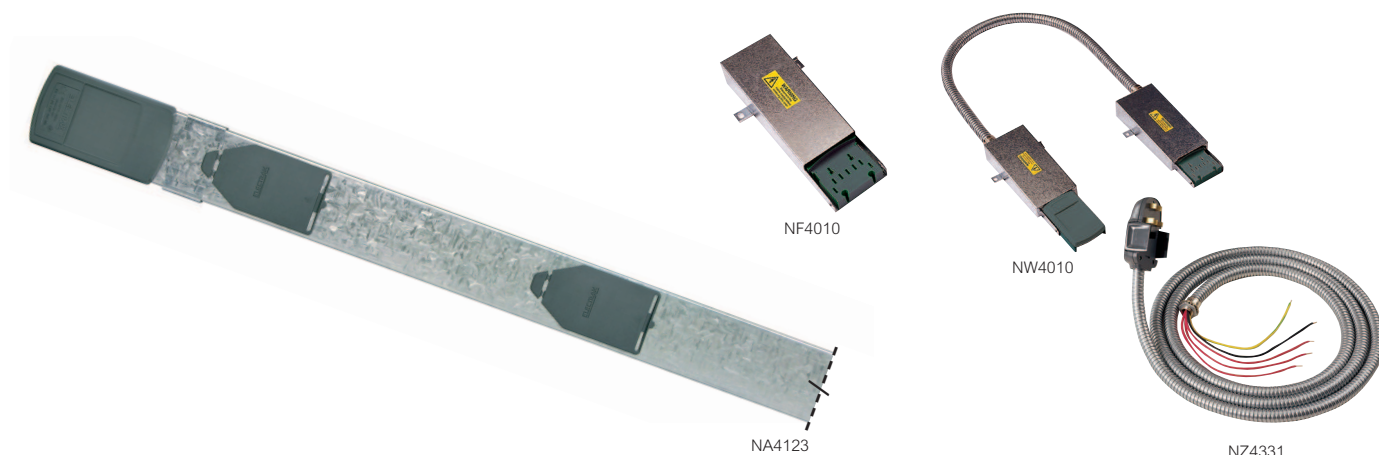
Pack	Cat. Nos.	Tap-off units
		Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit <sup>1</sup>
		Tap-off units in excess of 3 m should only be used if they contain a fuse or if the power track is protected by a protective device not exceeding 32 A
		<b>Standard 32 A unfused</b>
		16 mm Ø, L, N, PE
1	DP1332	3 m
1	DP1532	5 m
		<b>Standard 13 A fused</b>
		16 mm Ø, L, N, PE
1	DP1313	3 m
1	DP1513	5 m
		<b>Standard 13 A 543·7 fused</b>
		16 mm Ø, L, N, PE
1	DP1327	3 m
1	DP1527	5 m
		<b>Low noise / clean earth 32 A unfused</b>
		16 mm Ø, CE, L, N, PE
1	JP2332	3 m
1	JP2532	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>Low noise / clean earth 13 A 543·7 fused</b>
		16 mm Ø, CE, L, N, PE
1	JP2327	3 m
1	JP2527	5 m
		<b>Dual circuit 32 A unfused</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) 845 600 6266



# Electrak® 27 powertrack / underfloor busbar system

## 3 phase system (grey)



 Selection charts **p. 8-9**  
Dimensions and technical information **p. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008

Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations

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>
		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	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>
1	NF4010	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	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>
		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

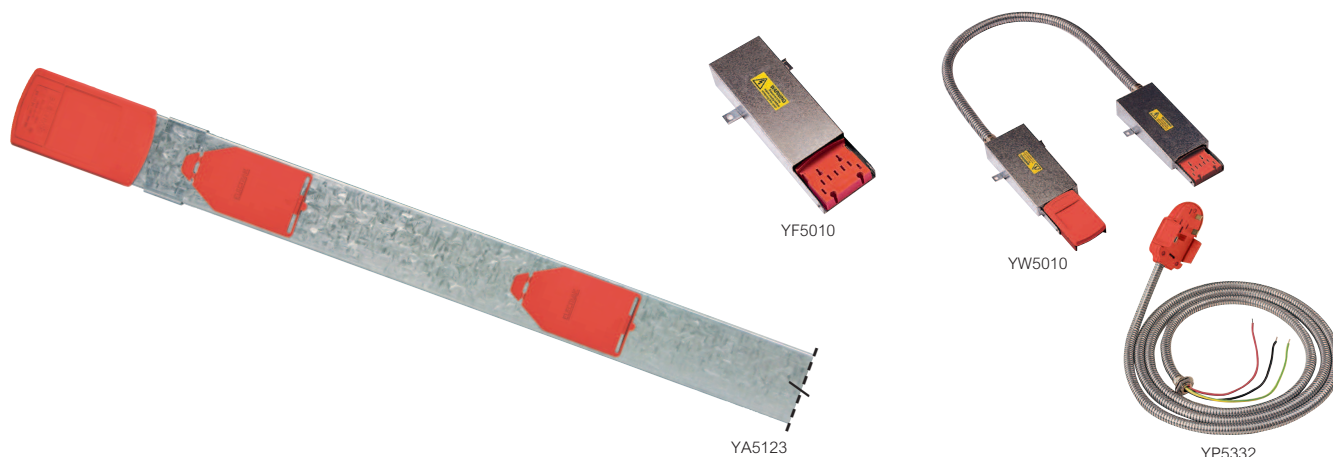
Pack	Cat. Nos.	Tap-off units
		Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit <sup>1</sup> Tap-off units in excess of 3 m should only be used if they contain a fuse or if the power track is protected by a protective device not exceeding 32 A
		<b>32 A 415 V 3 phase</b>
		20 mm Ø, L1, L2, L3, N, PE
1	NZ4331	3 m
1	NZ4531	5 m
		<b>32 A L1<sup>2</sup> unfused</b>
		Unfused Reconfigurable live pin 16 mm Ø, L, N, PE
1	NP4332	3 m
1	NP4532	5 m
		<b>32 A L2<sup>2</sup> unfused</b>
		Unfused Reconfigurable live pin 16 mm Ø, L, N, PE
1	NP4302	3 m
1	NP4502	5 m
		<b>32 A L3<sup>2</sup> unfused</b>
		Unfused Reconfigurable live pin 16 mm Ø, L, N, PE
1	NP4303	3 m
1	NP4503	5 m

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 845 600 6266  
<sup>2</sup> : 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. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008  
Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations  
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>
		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	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>
		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>
		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 power track is protected by a protective device not exceeding 32 A
		<b>32 A unfused</b>
		16 mm Ø, L, N, PE
1	YP5332	3 m
1	YP5532	5 m
		<b>13 A fused</b>
		16 mm Ø, L, N, PE
1	YP5313	3 m
1	YP5513	5 m
		<b>13 A 543·7 fused - high integrity</b>
		16 mm Ø, L, N, PE
1	YP5327	3 m
1	YP5527	5 m

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 845 600 6266

# Electrak 28R 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.).

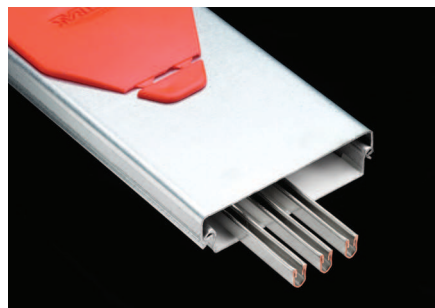
**Guideline For Design, Testing and Installation Of Busways GL.GN.01**  
Copyright Abu Dhabi Distribution Co.

Developed to meet the ADDC requirements for busways, this specially designed range sees 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 60439-2: 2000 and BS EN 61534-22: 2009 (IEC 61534: 2009).



Electrak 28R tinned tap-offs



Electrak 28R tinned busbar connectors

**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.

## Appendix 8. Colour identification for cables

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

The Electrak 28R powertrack range is a single phase system and therefore adopts red (L), black (N), and green/yellow (E) cables to meet with the requirements of The Regulation and Supervision Bureau of the Water, Wastewater and Electricity Sector in the Emirate of Abu Dhabi.

## Appendix 9. Capacity of conduits and trunking

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

The tap-offs contain a maximum of 3 x 4mm<sup>2</sup> conductors housed in as 20mm Ø metal flexible conduit to meet the requirements of The Regulation and Supervision Bureau of the Water, Wastewater and Electricity Sector in the Emirate of Abu Dhabi.

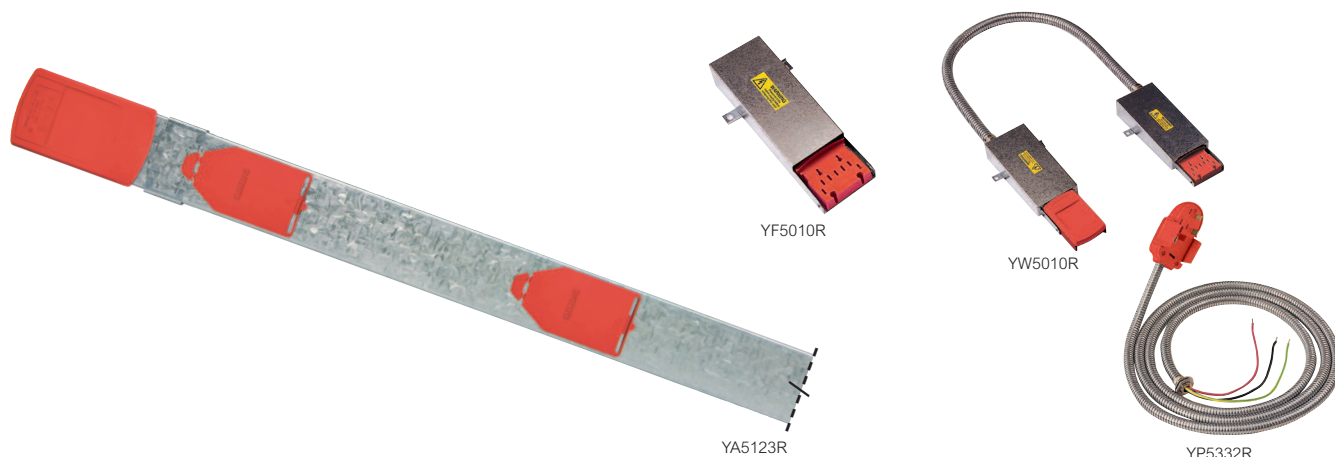
**NOTE:** When designing installations in regions with higher ambient temperatures than 35°C, de-rating factors may need to be applied. Please refer to the table on page 21 for details.





# Electrak® 28R tinned powertrack / underfloor busbar system

auxiliary earth system (red)



Selection charts **p. 8-9**  
Dimensions and technical information **p. 17-21**

Approved to ASTA Standard 138 and ISO 9001 : 2008  
Conforms to BS EN 60439-2 : 2008. Fully complies with the requirements of BS 7671 : 2008 IEE Wiring Regulations  
A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Busbar system components
		<b>63A auxiliary earth busbar lengths</b>
		Busbar lengths fit together using the integral connectors on each length Lengths should always be secured using the integral floor fixing brackets 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>
1	YF5010R	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	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>
		Required when busbar is raised off surface level 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> 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</b>
		20 mm Ø, L, N, PE (4 mm <sup>2</sup> )
1	YP5332R	3 m
1	YP5532R	5 m
		<b>13 A 543-7 fused - high integrity</b>
		20 mm Ø, L, N (2-5 mm <sup>2</sup> ), PE (4 mm <sup>2</sup> )
1	YP5327R	3 m
1	YP5527R	5 m

<sup>1</sup> : Tap-offs are supplied as standard with flexible metal conduit  
For alternative wiring solutions, contact us on +44 (0) 845 600 6266

# Electrak® powertrack / underfloor busbar

## design and installation

### General installation notes

Electrak power track 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

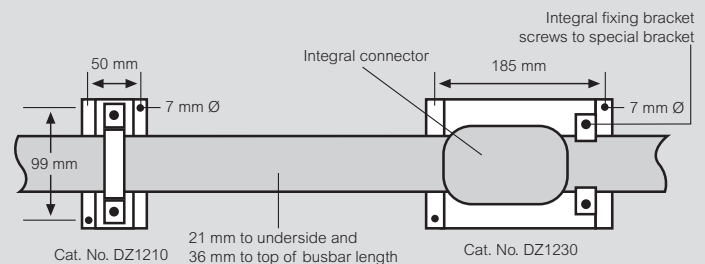
Optimum layout flexibility is achieved by positioning busbar lengths a maximum of 5.2 m apart and 2.5 m from the wall, and by connecting the 3 m tap-off units to floor outlet boxes. This means every part of the floor area can be served. Flexible interlinks can be used to overcome obstructions or used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

### Special fixing brackets

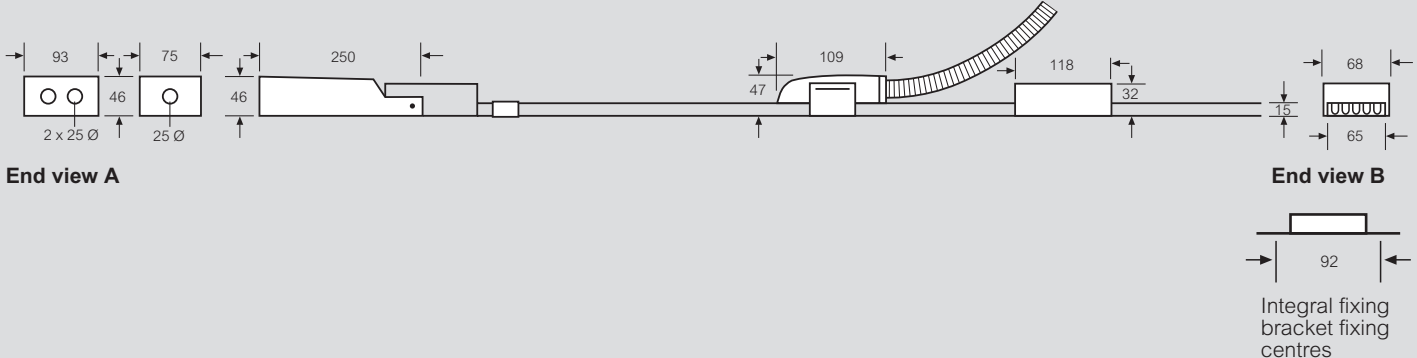
Electrak special fixing brackets are available to raise the system by 21 mm. Ensure brackets are spaced 600 mm apart and always have support under the integral connectors and feed units. Failure to do so may undermine the integrity of the system

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

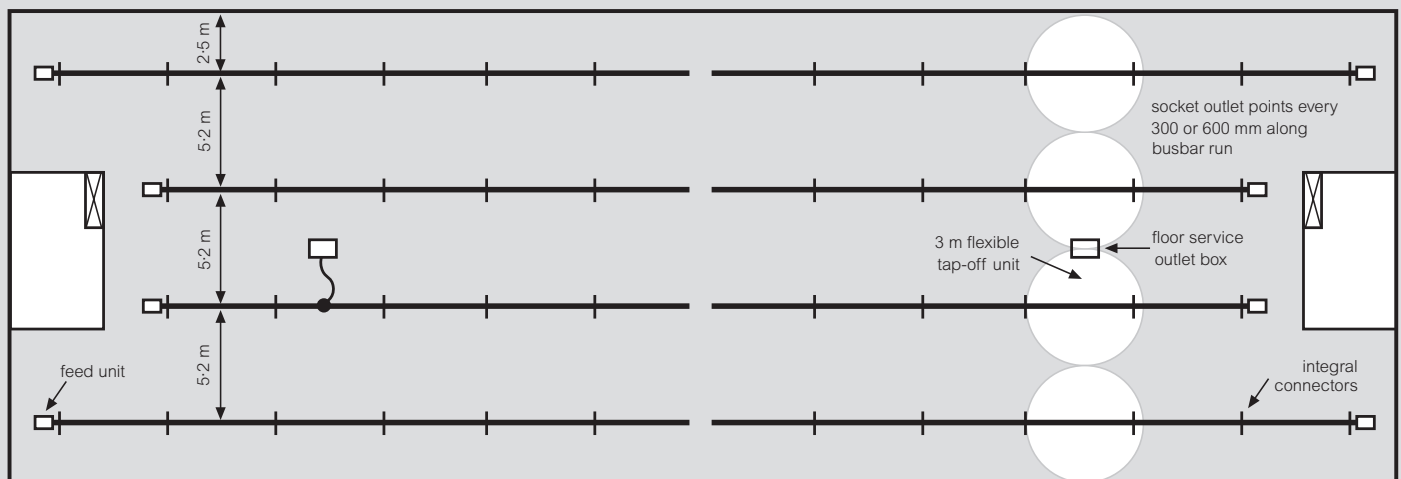
Cat. No. DZ1230 raised off-floor fixing brackets are always used under integral connectors. Busbar is secured to raised brackets using the integral fixing bracket



### Dimensions



### Example floor layout



All dimensions (mm) are nominal

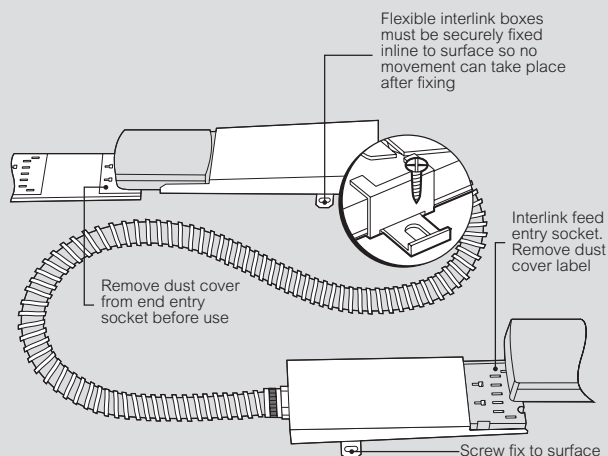


# Electrak® powertrack / underfloor busbar system

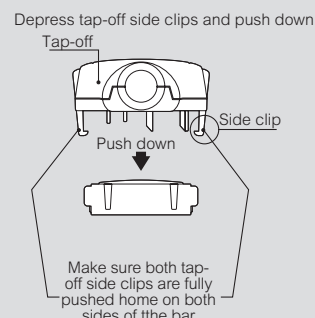
## design and installation (continued)

### Product configuration

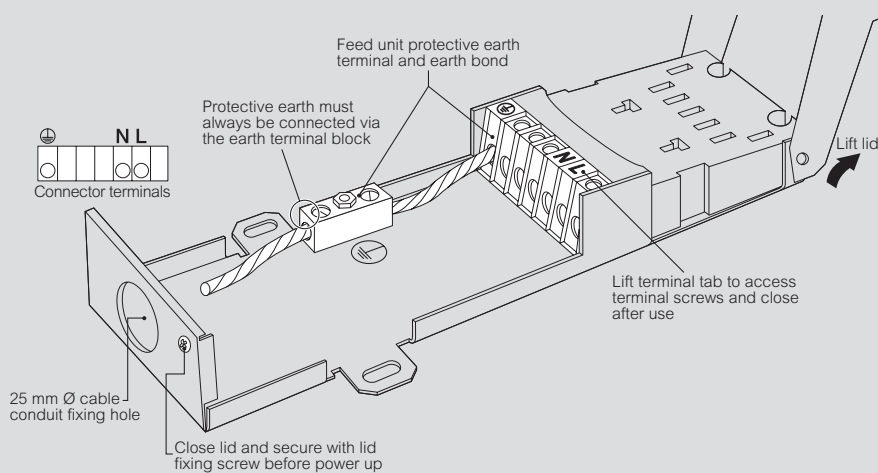
#### Flexible interlink



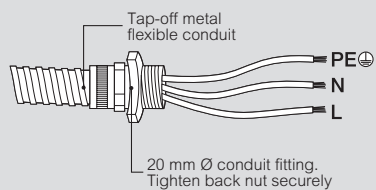
#### Tap-off connection



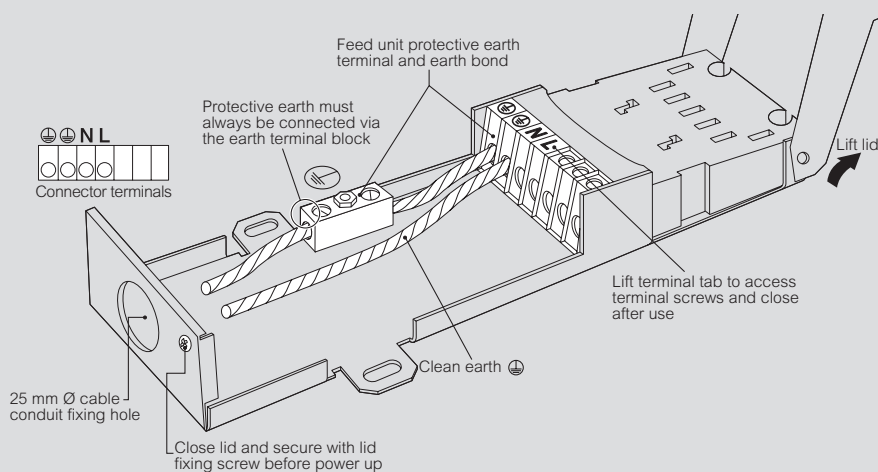
#### Feed unit (Cat. No. DF1010) Sub-cabing



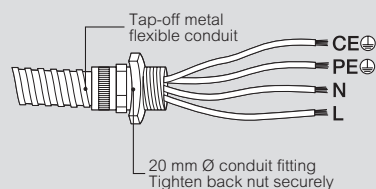
#### Tap-off connection

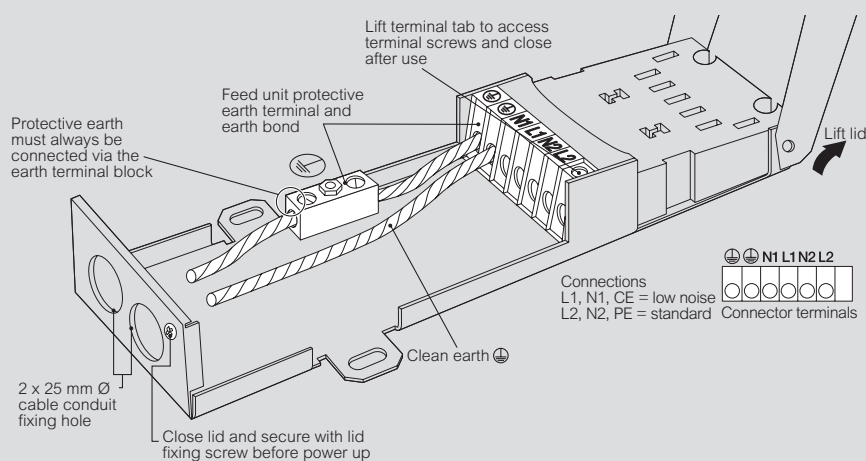
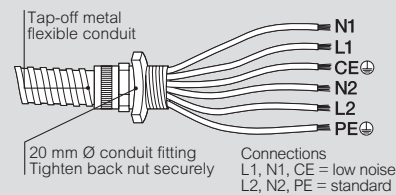
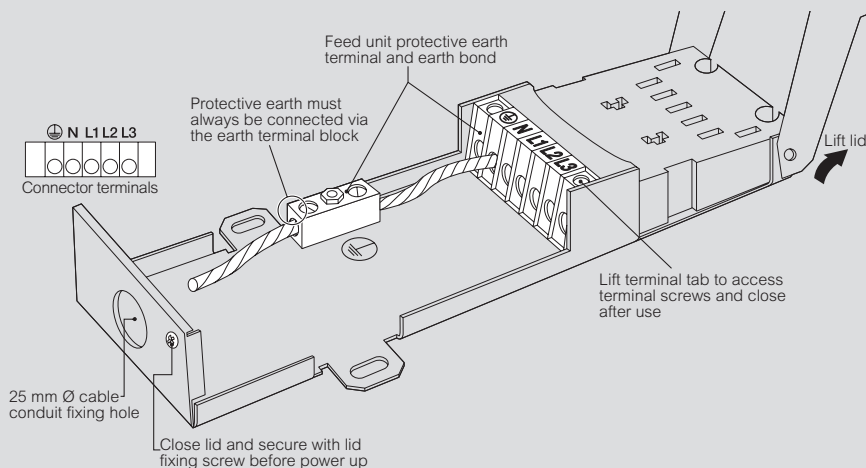
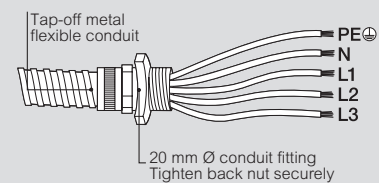
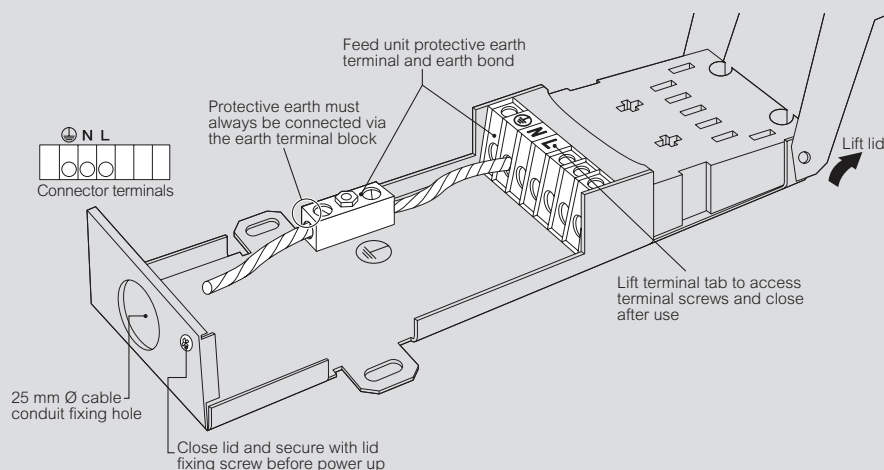
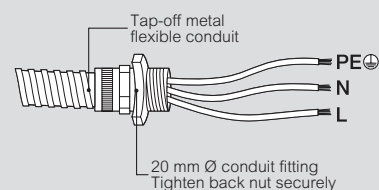


#### Feed unit (Cat. No. JF2010) Sub-cabing



#### Tap-off connection



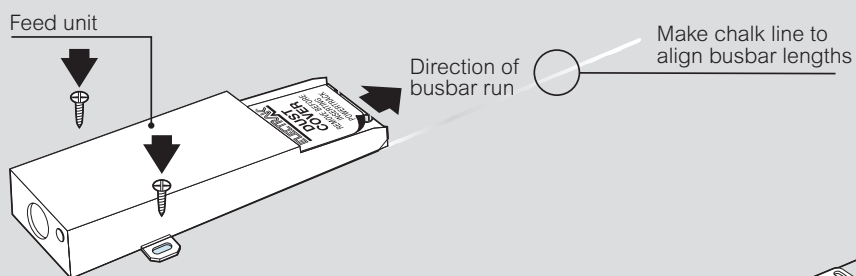
**Feed unit (Cat. No. KF3010) Sub-cabling****Dual tap-off connection (dark green)****Feed unit (Cat. No. NF4010) Sub-cabling****3 phase tap-off connection****Feed unit (Cat. No. YF5010 and YF5010R) Sub-cabling****Tap-off connection**



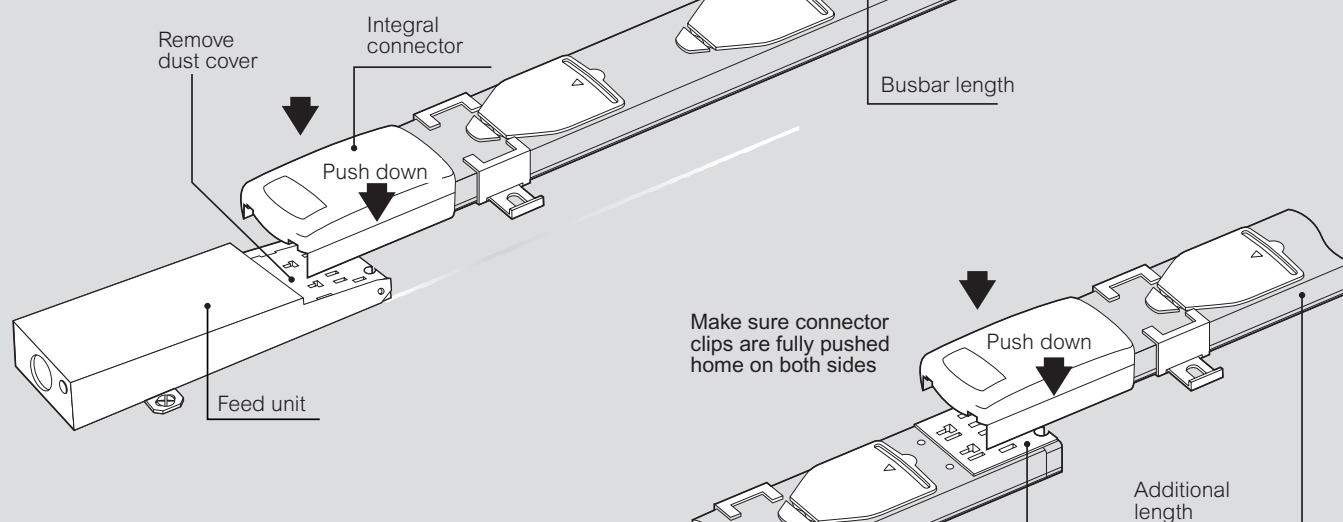
# Electrak® powertrack / underfloor busbar system

installation (continued)

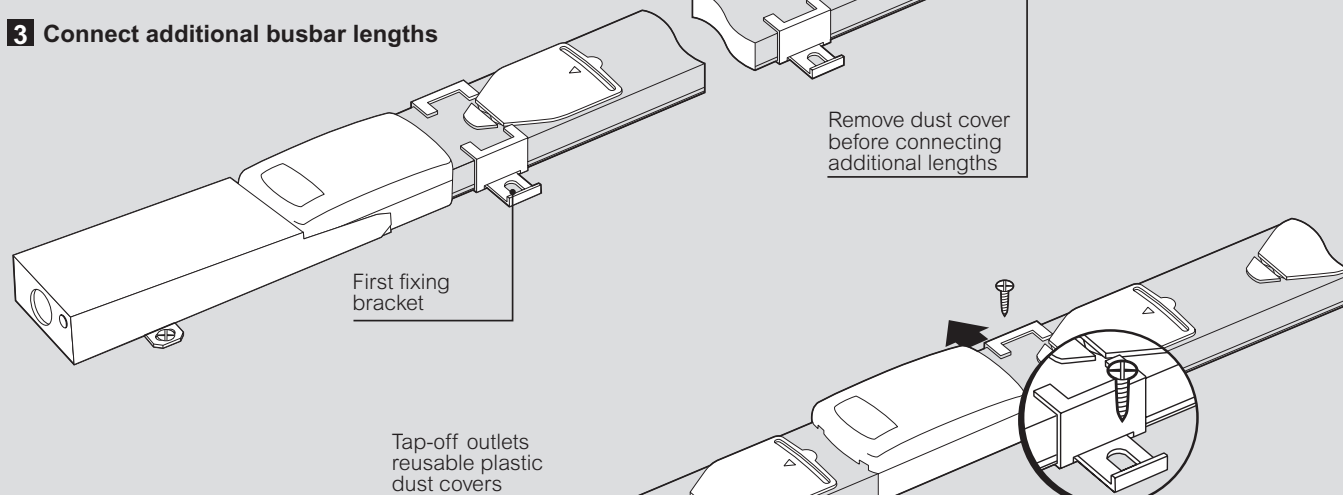
## 1 Fix feed unit to surface



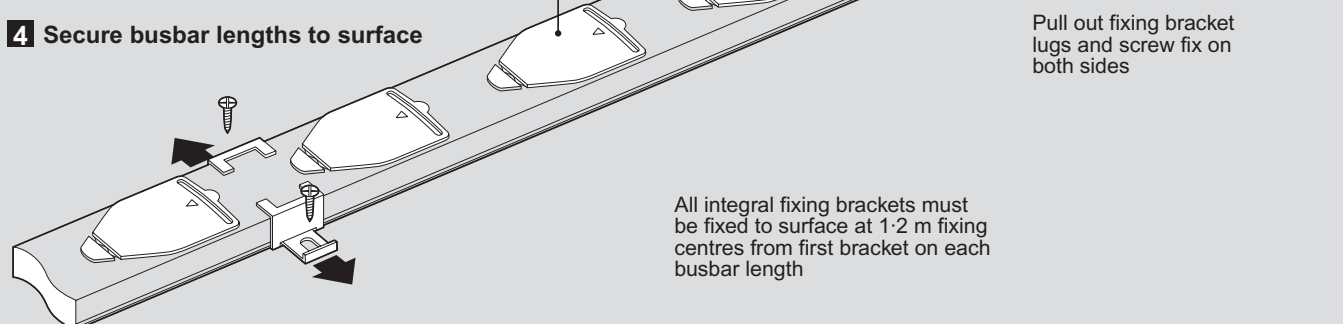
## 2 Connect busbar length to feed unit



## 3 Connect additional busbar lengths



## 4 Secure busbar lengths to surface



All dimensions (mm) are nominal

# Electrak® powertrack / underfloor busbar system

## technical data

### Standards



Approved to ASTA Standard 138

BS EN 60439-2 : 2000, BS EN 61534-22 : 2009  
and IEC 61534-22 : 2009

Manufactured within an approved ISO 9001 : 2008 and ISO 14001 : 2004 facility  
Assessed Quality Assurance Certificate No. 2029

Electrak powertrack / underfloor busbar fully complies with the requirements of  
BS 7671 : 2008 + A1 : 2011 (IET Wiring Regulations)

### Ambient temperature rating factors

The current carrying capacity for a powertrack / underfloor busbar ( $I_n$ ) 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 :

$I_z$  = effective current carrying capacity for continuous service under particular  
installation conditions

$K_\alpha$  = ambient temperature factor

$I_n$  = nominal current carrying capacity

For ambient temperatures exceeding 35° C the values of  $K_\alpha$  and  $I_z$  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
$K_\alpha$			1		0.95	0.85	0.80
$I_z$			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
$K_\alpha$			1		0.95	0.85	0.80
$I_z$			32 A		30 A	27 A	25 A

13 A fused tap-off (using 2.5 mm² thermosetting 90°C cables)							
Ambient	20°C	25°C	30°C	35°C	40°C	45°C	50°C
$K_\alpha$			1				
$I_z$			13 A				

### References :

BS 7671 : 2008 incorporating amendment No. 1 : 2011

Appendix 8 – Current carrying capacity for powertrack systems

Appendix 4 – Table 4B1 Rating factors for thermosetting cables

Appendix 4 – Table 4E1A – Single core 90°C thermosetting insulated cables  
(non-armoured)

### Earth fault loop impedance

BS 7671 : 2008 + A1 : 2011 IET Wiring Regulations 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 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 543.7.1.103 (ii) states "a single copper protective  
conductor having a cross-sectional area of not less than 4 mm², 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 m² (2.5 m² for tinned system) conductors, however in the fused  
543.7 tap-offs, the 1.5 m² (2.5 m² for tinned system) earth conductor is replaced  
with a 4 mm² conductor and therefore complies with Section 543.7.1.103 (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 mm² LSOH conductors

These units are designed to comply with regulation 434.2.1 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 mm² cable	11 mV/A/m
Flexible corner assembly	1.5 mV/A
+ 10 mm² cable	4.0 mV/A/m

Mechanical data	E24 – E28	E28R
Number of conductors	3-6	3
Busbar conductor cross sectional area	13 mm²	13 mm²
Housing cross sectional area (copper equivalent)	13 mm²	13 mm²
Cable terminal capacity	16 mm²	16 mm²
Tap-off cable 32 A	4 mm²	4 mm²
Tap-off cable 13 A fused	1.5 mm²	2.5 mm²
Tap-off conduit, up to 4 conductors	16 mmØ	20 mmØ
Tap-off conduit, 5 and 6 conductors	20 mm²	N/A
Flexible corner cable (tri-rated, high temperature)	10 mm²	10 mm²
Flexible corner conduit	25 mmØ	25 mmØ
IP rating	40	40

### Material specifications

Housing - busbar lengths	Galvanised steel, natural finish
Busbars	High conductivity copper (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 7211
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 mm² cable	11 mΩ/m
Flexible corner assembly	1.5 mΩ
+ 10 mm² cable	4.0 mΩ/m
Rated conditional short-circuit current	16 KA
Ambient temperature	25°C

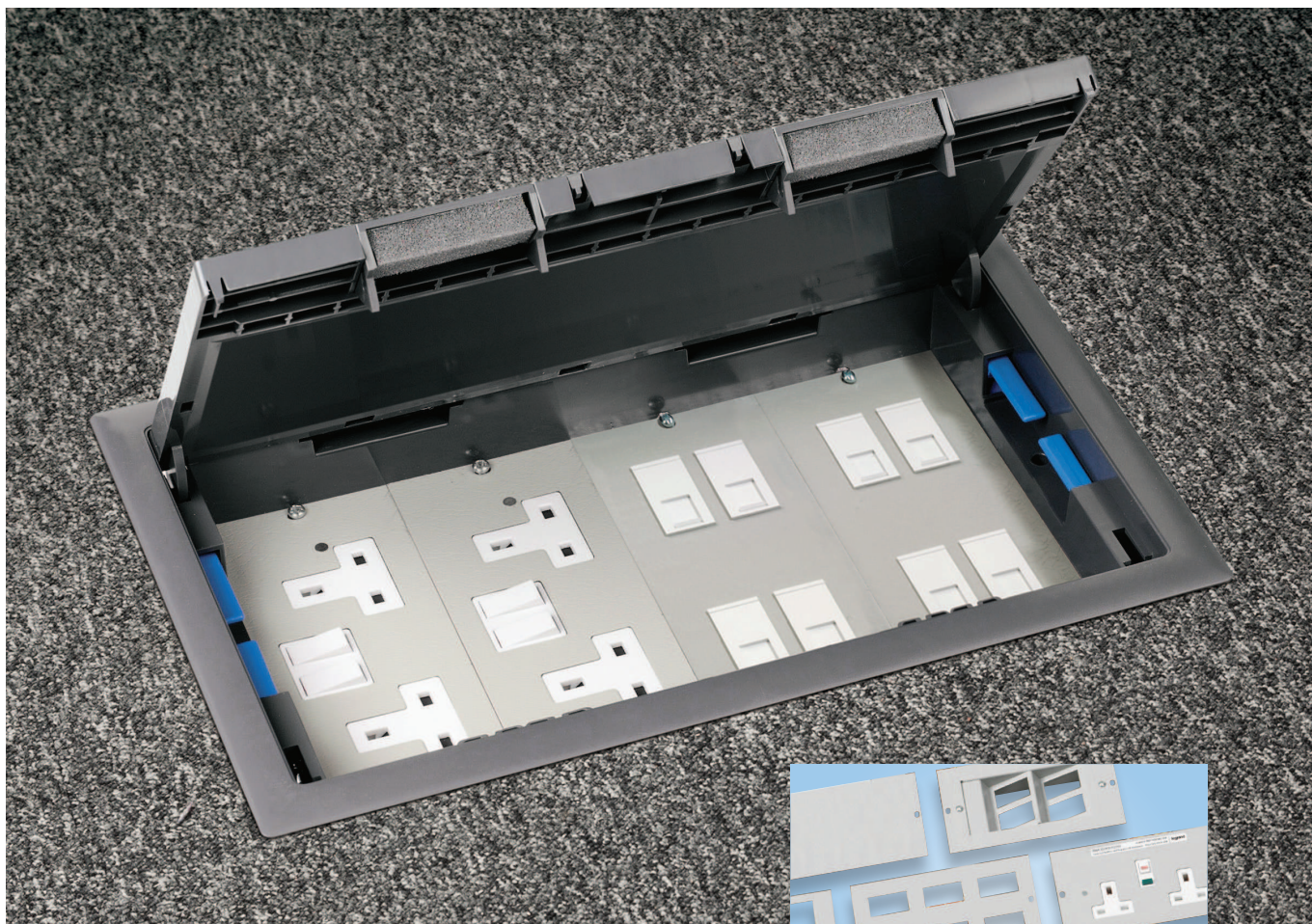
### Electrical test data

Rated current	63 A
Rated voltage	230/400 V~
Frequency	50/60 Hz
Conductor resistance - live and neutral	3.0 mΩ/m
Conductor impedance	1.5 mΩ/m

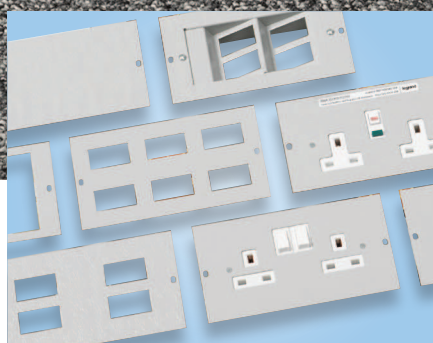
All dimensions (mm) are nominal



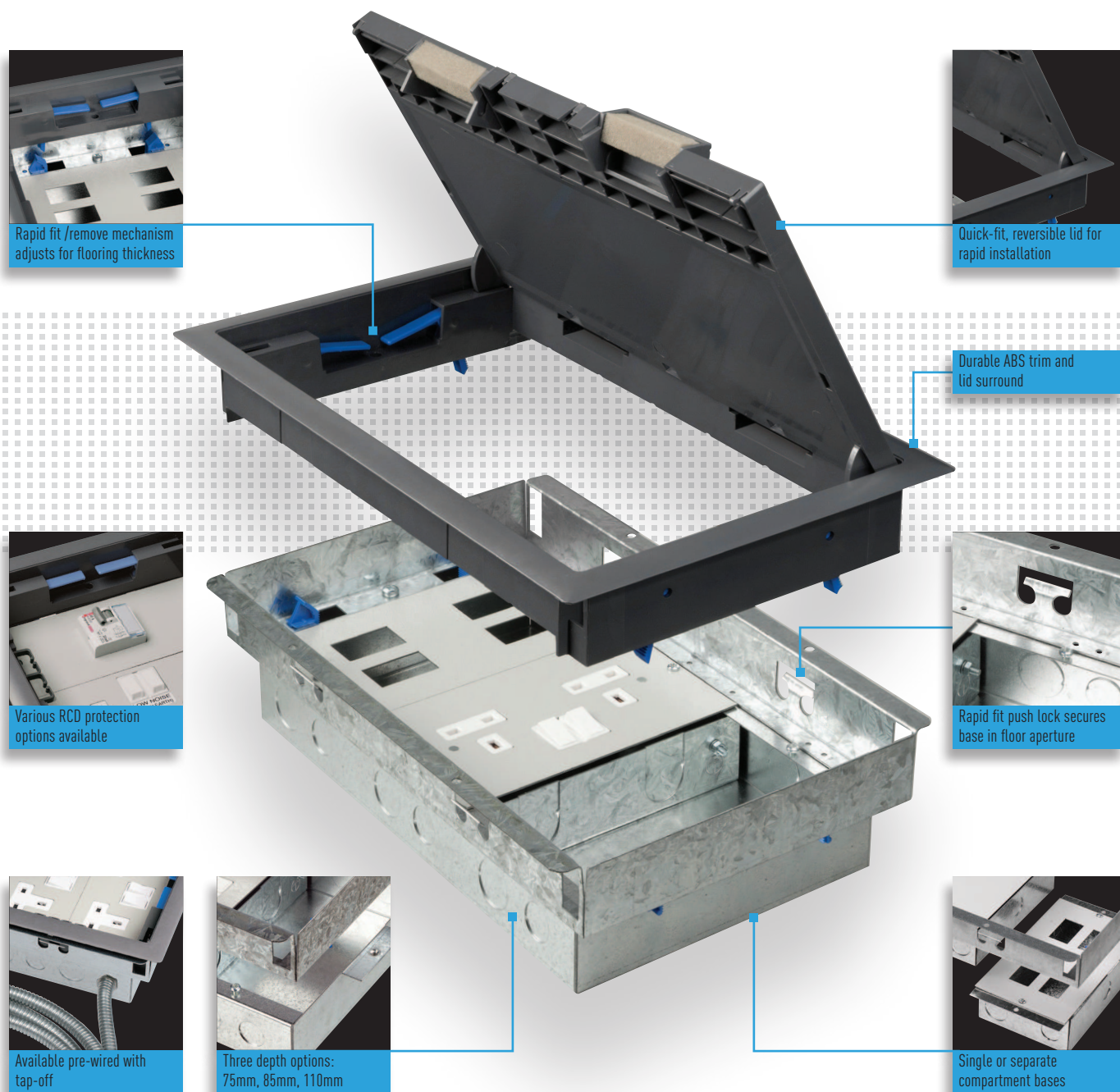
# Floor boxes... choice, flexibility and easy installation



2, 3 and 4 compartment raised access floor boxes and slab boxes offer complete versatility. Floor boxes are available pre-wired with power track 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.







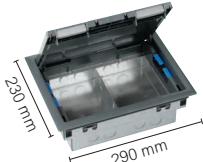
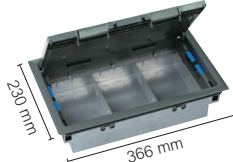
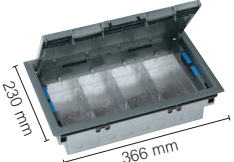


















Available in 2, 3 and 4 compartments and with a choice of three depths, Electrak floor boxes have been developed with a host of special features:

- Available pre-wired with tap-off or supplied unassembled
- A vast 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



## access floor service outlet and slab mounted floor boxes

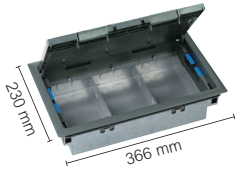





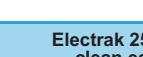




### empty boxes and accessory plates

		2 compartment		3 compartment	4 compartment
To configure boxes as required, select : 1. Box depth 2. Number of compartments required 3. Desired accessory plates					
		290 mm		366 mm	366 mm
		230 mm		230 mm	230 mm
		290 mm		366 mm	366 mm
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
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			CR4105
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
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









## access floor pre-wired service outlet boxes and accessory plates

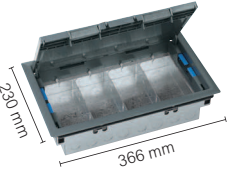











### Pre-wired service outlet boxes with Electrak tap-offs

1. Select power track 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

### Additional plates for 3 compartment boxes

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

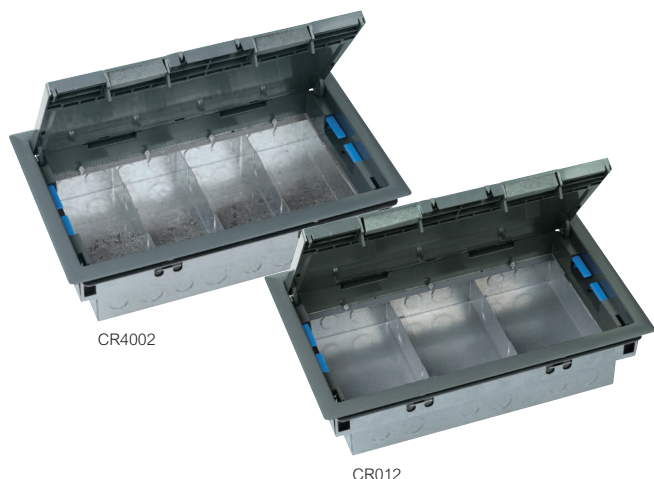
4 compartment		Includes 1 x twin switched socket outlet	Includes 2 x twin switched socket outlet	Includes 1 x 2 gang RCD socket outlet	Includes 2 x 2 gang RCD socket outlet	Modular RCD protecting 2 x twin switched socket outlets and 1 spare compartment
	<b>Electrak 24 - standard tap-off</b>					
	 DP1332 - 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

### Additional plates for 4 compartment boxes

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

## access floor service outlet boxes

### empty boxes



Selection charts **p. 24**  
Dimensions and technical information **p. 29**

Lid and trim mouldings are precision engineered from hard wearing durable ABS. The 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. Goosewing 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 IEC-61534-22.

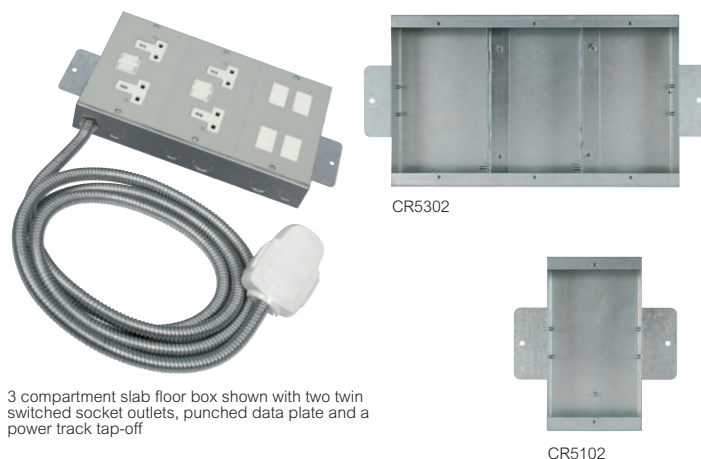
Pack	Cat. Nos.	<b>2 compartment floor boxes</b>
		<b>Empty boxes</b>
		<b>100 mm compartment widths</b>
1	CR2001	Single base - 75 mm depth
1	CR2002	Single base - 85 mm depth (standard box)
1	CR2003	Single base - 110 mm depth
1	CR2004	Separate compartment base - 75 mm depth
1	CR2005	Separate compartment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

		<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

		<b>4 compartment floor boxes</b>
		<b>Empty boxes</b>
		<b>75 mm compartment widths</b>
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 mounted floor boxes

### empty boxes



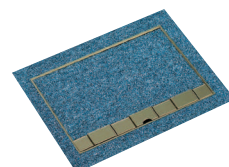
3 compartment slab floor box shown with two twin switched socket outlets, punched data plate and a power track tap-off

Selection charts **p. 24**  
Dimensions and technical information **p. 29**

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 Fast and efficient installation with integrated fixing plates Wide range of power and data accessory plates Manufactured from 0.9 mm thick galvanised steel 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. 24</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. 24</b>
1	CR5402	4 compartment slab floor box

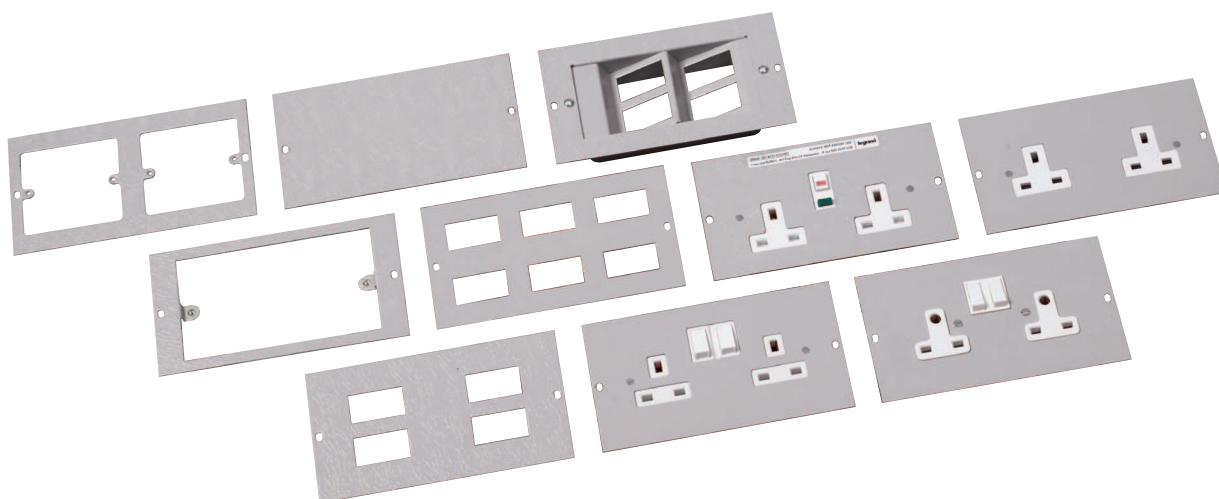
Screed / edge trim boxes, and metal or lockable lids are available to order  
**contact us on +44 (0) 845 600 6266**





## access floor service outlet boxes

### accessory plates and ancillary items



 Selection charts **p. 24-25**  
Dimensions and technical information **p. 29**

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. Goosewing 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 IEC-61534-22

#### Pack Cat. Nos. **1, 2 and 3 compartment accessory plates**

Pack	Cat. Nos.	100 mm width
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	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)

#### Pack Cat. Nos. **4 compartment accessory plates**

Pack	Cat. Nos.	75 mm compartment widths
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	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)

#### **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	CR0002	Lid – 2 compartment box
1	CR0004	Lid – 3/4 compartment box
1	CR0005	Mounting frame for vinyl floor. For 2 compartment box Replaces mounting frame attached to base
1	CR0006	Mounting frame for vinyl floor. For 3/4 compartment box. 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**

# access floor pre-wired service outlet boxes

## 3 and 4 compartment



CR100



CR122



Dimensions and technical information p. 29

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

Pack	Cat. Nos.	3 compartment pre-wired boxes with 1 x TSSO
		<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.	3 compartment pre-wired boxes with 2 x TSSO
		<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.	4 compartment pre-wired boxes with 1 x TSSO
		<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.	4 compartment pre-wired boxes with 2 x TSSO
		<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) 845 600 6266



## access floor service outlet boxes

with RCD protection



CR4401



Selection charts **p. 24-25**  
Dimensions and technical information **(opposite)**

Electrak floor boxes are available with various RCD protection options and can be supplied pre-wired to power track 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 IEC-61534-22

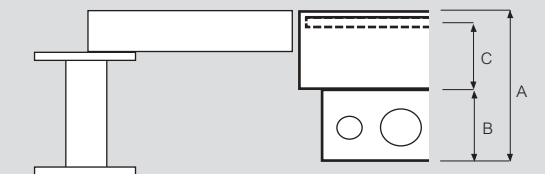
#### Wiring

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  
Goosewing 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

### To install 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





# Floor grommets...

perfectly balancing capacity and 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 power track tap-offs

## floor grommets

access / power and data



EG0010



EG0030



EG0040



EG0045



Dimensions and technical information p. 33

Pack	Cat. Nos.	Plastic access grommets
1	EG0010	<p>Quick fit installation Precision engineered from hard wearing durable ABS Grey mouldings. Other colours available to special order Grommets conform to IEC-61534-22 Simply secured by pushing down the spring-loaded screws and rotating a quarter turn</p> <p><b>144 mm Ø – cut-out size 127 mm Ø</b> Can accomodate all cable types or three metal conduits up to a 20 mm Ø or 25 mm without foam</p>
1	EG0030	<p><b>169 mm Ø – cut-out size 152 mm Ø</b> Allows power, data and flexible conduit up to 32 mm to pass through raised access floor Lid can be locked with screw (included) Maximum number of conduits : 9 x 20 mm Ø 5 x 25 mm Ø 3 x 32 mm Ø</p>
1	EG0055	<p><b>232 mm Ø – cut-out size 215 mm Ø</b> High capacity grommet Recommended for installation in light traffic areas</p>

Pack	Cat. Nos.	Aluminium access grommet
1	EG0015	<p>Body – cast aluminium Lid – injection moulded plastic Nylon 66 with neoprene cable gasket Secured by quarter-turn fasteners Floor depth 25 to 55 mm Access grommet depth 60 mm (95 mm when back box included)</p> <p><b>144 mm Ø – cut-out size 127 mm Ø</b> Allows power, data and flexible conduit up to 25 mm to pass through raised access floor</p>

Pack	Cat. Nos.	Aluminium power grommet
1	EG0025	<p><b>13 A power grommet</b> Supplied complete with 13 A unswitched socket</p>

Pack	Cat. Nos.	Plastic power and data grommets
		<p><b>169 mm Ø – cut-out size 152 mm Ø</b> Quick fit installation Precision engineered from hard wearing durable ABS Grey mouldings. Other colours available to special order. Conform to IEC-61534-22 Removable carpet recess Cable flap feature so grommet lid can be closed while in use Simply secured by pushing down the spring loaded screws and rotating a quarter turn</p>
1	EG0040	<p><b>13 A power grommet</b> Supplied complete with 13 A unswitched socket</p>
1	EG0045	<p><b>RCD power grommet</b> Supplied complete with 13 A RCD socket</p>
1	EG0051	<p><b>13 A power/data grommet</b> Supplied complete with 13 A socket and 1 x 37 x 22 mm cut-out</p>
1	EG0052	<p><b>Data grommet</b> Supplied complete with data plate 2 x 37 x 22 mm cut-out</p>

Pack	Cat. Nos.	Pre-wired power grommets
		<p><b>169 mm Ø – cut-out size 152 mm Ø</b> <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



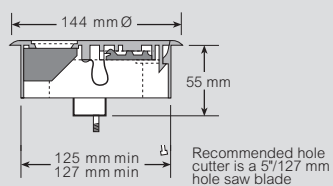
# floor grommets

## technical information

### 144 mm Ø plastic floor grommet

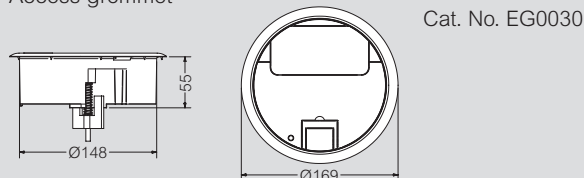
#### Dimensions

144 mm grommet  
EG0010

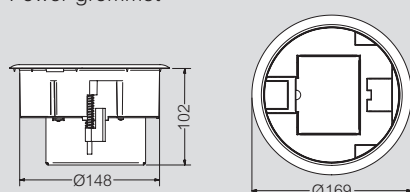


### 169 mm Ø plastic floor grommets

#### Access grommet



#### Power grommet

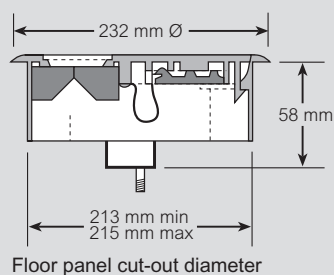


Recommended hole cutter is a 6"/152 mm hole saw blade

### 232 mm Ø plastic floor grommet

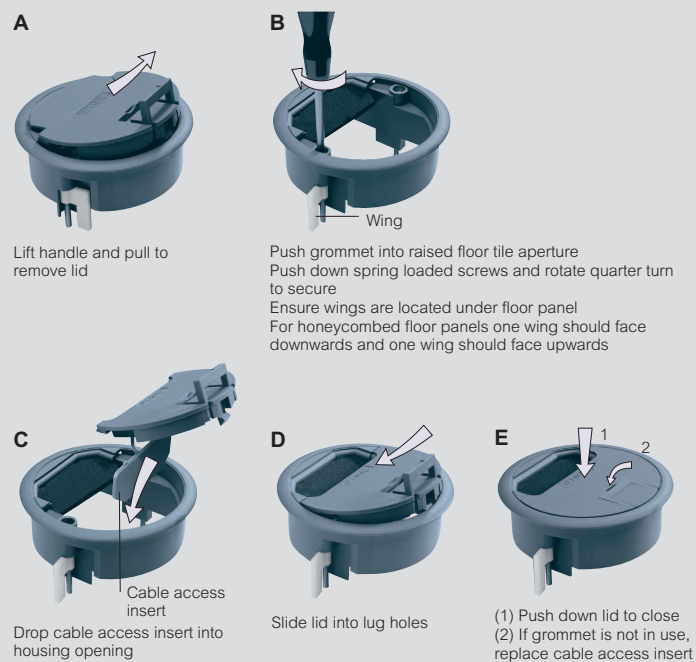
#### Dimensions

Large quick fit grommet  
Cat. No. EG0055



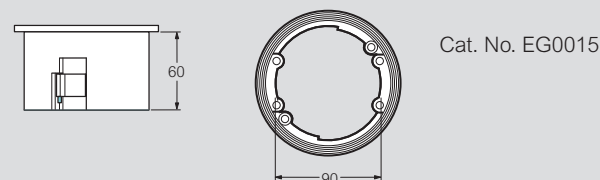
Recommended hole cutter is a adjustable hole saw blade with Ø range of 40 mm - 300 mm

### To install plastic floor grommet

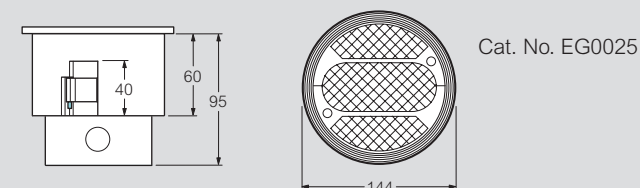


### 144 mm Ø aluminium grommets

#### Access grommet



#### 13 A power grommet



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





# Intersoc-R™ ... fast, reliable, adaptable modular desk power



## COMPLETE SOLUTIONS FOR DEMANDING ENVIRONMENTS

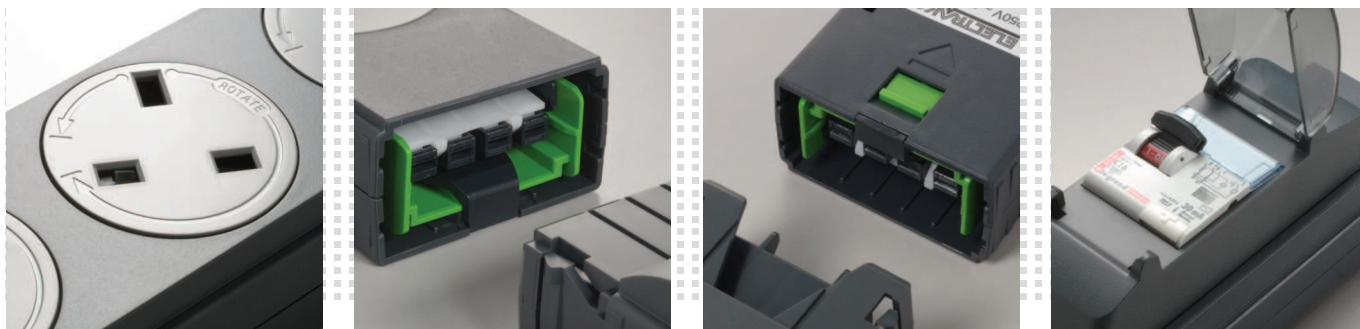
Intersoc-R is a modular desk power system designed to meet the demands of modern workplaces for faster and more adaptable solutions.

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 : 2008 (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
- 8 international socket options make Intersoc-R ideal for installations across the globe
- Outgoing connections: flexible interlink or end cap with ST or GST options

## NEW Intersoc On-desk

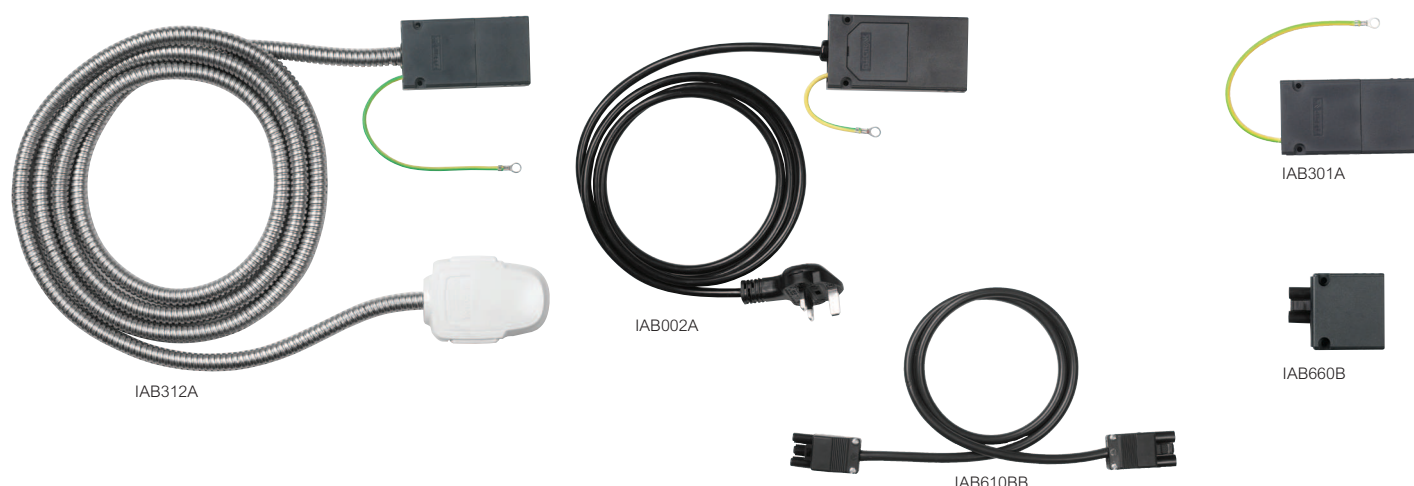
Personal power and data system  
Find out more on page 46











Intersoc-R features fast modular connection with push-fit auto lock mechanism, safe shuttered electrical connections and a robustly designed rigid joint between modules. Available in standard and clean earth versions  
Independently approved by Intertek. Complies with BS 5733 and the relevant parts of BS 1363 part 2. Manufactured in an approved ISO 9001 : 2008 facility. Meets the requirements of BS 7671 : 2008 for high integrity earthing (section 543.7)

Pack	Cat. Nos.		Pack	Cat. Nos.	
		<b>32 A pre-wired feed modules</b>			<b>16 A feed modules pre-wired to 13 A fused plug</b>
		<b>Standard earth tap-offs (E24 - White tap-off)</b>			
1	IAB311A	3 m unfused metal tap-off Cat. No. DP1332	1	IAB002A	With 2 m 1·5 mm <sup>2</sup> cable
1	IAB312A	5 m unfused metal tap-off Cat. No. DP1532	1	IAB003A	With 3 m 1·5 mm <sup>2</sup> cable
1	IAB315A	3 m 13 A fused 543·7 metal tap-off Cat. No. DP1327	1	IAB005A	With 5 m 1·5 mm <sup>2</sup> cable
1	IAB316A	5 m 13 A fused 543·7 metal tap-off Cat. No. DP1527			
		<b>Low noise / clean earth tap-offs (E25 - Green tap-off)</b>			<b>16 A rewirable feed modules</b>
1	IAC311A	3 m unfused metal tap-off Cat. No. JP2332	1	IAB201A	Rewirable feed module (for cable)
1	IAC312A	5 m unfused metal tap-off Cat. No. JP2532			
1	IAC315A	3 m 13 A fused 543·7 metal tap-off Cat. No. JP2327			<b>16 A feed units with in-built GST connector</b>
1	IAC316A	5 m 13 A fused 543·7 metal tap-off Cat. No. JP2527	1	IAB660B	Compact feed module with male GST connector
		<b>Auxiliary earth tap-offs (E28 - Red tap-off)</b>	1	IAB201B	Feed module with male GST and earth bond lead
1	IAF311A	3 m unfused metal tap-off Cat. No. YP5332			
1	IAF312A	5 m unfused metal tap-off Cat. No. YP5532			<b>16 A pre-wired connection leads</b>
1	IAF315A	3 m 13 A fused 543·7 metal tap-off Cat. No. YP5327			<b>13 A fused plug pre-wired to GST connector</b>
1	IAF316A	5 m 13 A fused 543·7 metal tap-off Cat. No. YP5527	1	IAB002B	With 2 m 1·5 mm <sup>2</sup> cable
			1	IAB003B	With 3 m 1·5 mm <sup>2</sup> cable
			1	IAB005B	With 5 m 1·5 mm <sup>2</sup> cable
		<b>32 A re-rewirable feed modules</b>			<b>GST to GST connection leads</b>
1	IAB301A	Standard earth (for flexible conduit)	1	IAB610BB	1 m length
1	IAC301A	Low noise (for flexible conduit)	1	IAB620BB	2 m length
			1	IAB630BB	3 m length
		<b>32 A feed units with in-built Neutrik connectors</b>			
1	IAB301E	Standard earth			
1	IAC301E	Low noise			
		<b>32 A tap-offs pre-wired to Neutrik connectors</b>			
		<b>Standard earth tap-offs (E24)</b>			
1	IAB311E	3 m unfused metal tap-off Cat. No. DP1332			
1	IAB312E	5 m unfused metal tap-off Cat. No. DP1532			
1	IAB315E	3 m 13 A fused 543·7 metal tap-off Cat. No. DP1327			
1	IAB316E	5 m 13 A fused 543·7 metal tap-off Cat. No. DP1527			
		<b>Low noise / clean earth tap-offs (E25)</b>			
1	IAC311E	3 m unfused metal tap-off Cat. No. JP2332			
1	IAC312E	5 m unfused metal tap-off Cat. No. JP2532			
1	IAC315E	3 m 13 A fused 543·7 metal tap-off Cat. No. JP2327			
1	IAC316E	5 m 13 A fused 543·7 metal tap-off Cat. No. JP2527			



# Intersoc-R™ desk modules

protection, BS sockets, end caps and interlinks



IAC502R



IAB402A



IAZ001A



IAB703A



IAB533F



IAB450A



IAB610B



IAB600B



IAB504R



Dimensions and technical information p. 42-45

The BS version is available with fixed or rotatable sockets. Individually fused sockets are available to meet the requirements of BS 6396 : 2008 (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
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## 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

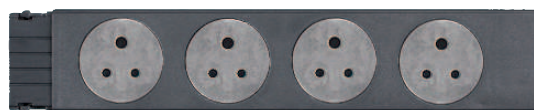
<b>Without flex</b>		
1	IAB600B	End cap with female GST connector
1	IAB600C	End cap with female ST connector
<b>With flex to female GST connector</b>		
1	IAB610B	1 m length
1	IAB620B	2 m length
1	IAB630B	3 m length

# Intersoc® international range

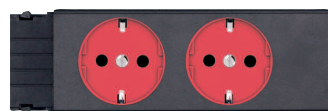
## international socket options



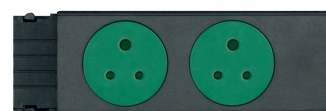
IAB5N4A



IAB5P4A



IAF5N2A



IAC5P2A

### 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.	Schuko socket modules
<b>2 gang – grey socket outlets</b>		
1	IAB5N2A	90° angled sockets
1	IAB5N2B	45° angled sockets
<b>4 gang – grey socket outlets</b>		
1	IAB5N4A	90° angled sockets
1	IAB5N4B	45° angled sockets
<b>2 gang – red socket outlets</b>		
1	IAF5N2A	90° angled sockets
1	IAF5N2B	45° angled sockets
<b>4 gang – red socket outlets</b>		
1	IAF5N4A	90° angled sockets
1	IAF5N4B	45° angled sockets

Pack	Cat. Nos.	French/Belgium socket modules
<b>2 gang – grey socket outlets</b>		
1	IAB5U2A	90° angled sockets
1	IAB5U2B	45° angled sockets
<b>4 gang – grey socket outlets</b>		
1	IAB5U4A	90° angled sockets
1	IAB5U4B	45° angled sockets
<b>2 gang – red socket outlets</b>		
1	IAF5U2A	90° angled sockets
1	IAF5U2B	45° angled sockets
<b>4 gang – red socket outlets</b>		
1	IAF5U4A	90° angled sockets
1	IAF5U4B	45° angled sockets

Pack	Cat. Nos.	5 A Indian socket modules
<b>2 gang – grey socket outlets</b>		
1	IAB5P2A	90° angled sockets
1	IAB5P2B	45° angled sockets
<b>4 gang – grey socket outlets</b>		
1	IAB5P4A	90° angled sockets
1	IAB5P4B	45° angled sockets
<b>2 gang – green socket outlets</b>		
1	IAC5P2A	90° angled sockets
1	IAC5P2B	45° angled sockets
<b>4 gang – green socket outlets</b>		
1	IAC5P4A	90° angled sockets
1	IAC5P4B	45° angled sockets

Pack	Cat. Nos.	15 A South African socket modules
<b>2 gang – grey socket outlets</b>		
1	IAB5Q2A	90° angled sockets
1	IAB5Q2B	45° angled sockets
<b>4 gang – grey socket outlets</b>		
1	IAB5Q4A	90° angled sockets
1	IAB5Q4B	45° angled sockets
<b>2 gang – green socket outlets</b>		
1	IAC5Q2A	90° angled sockets
1	IAC5Q2B	45° angled sockets
<b>4 gang – green socket outlets</b>		
1	IAC5Q4A	90° angled sockets
1	IAC5Q4B	45° angled sockets

## Intersoc® international range

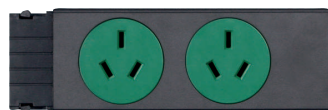
### international socket options (continued)



IAB5R4A



IAB5S4A



IAC5R2A



IAC5S2A

 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.	<b>Australian/Chinese socket modules</b>
		<b>2 gang – grey socket outlets</b>
1	IAB5R2A	90° angled sockets
1	IAB5R2B	45° angled sockets
		<b>4 gang – grey socket outlets</b>
1	IAB5R4A	90° angled sockets
1	IAB5R4B	45° angled sockets
		<b>2 gang – green socket outlets</b>
1	IAC5R2A	90° angled sockets
1	IAC5R2B	45° angled sockets
		<b>4 gang – green socket outlets</b>
1	IAC5R4A	90° angled sockets
1	IAC5R4B	45° angled sockets

Pack	Cat. Nos.	<b>15 A USA socket modules</b>
		<b>2 gang – grey socket outlets</b>
1	IAB5S2A	90° angled sockets
1	IAB5S2B	45° angled sockets
		<b>4 gang – grey socket outlets</b>
1	IAB5S4A	90° angled sockets
1	IAB5S4B	45° angled sockets
		<b>2 gang – green socket outlets</b>
1	IAC5S2A	90° angled sockets
1	IAC5S2B	45° angled sockets
		<b>4 gang – green socket outlets</b>
1	IAC5S4A	90° angled sockets
1	IAC5S4B	45° angled sockets

Pack	Cat. Nos.	<b>20 A USA socket modules</b>
		<b>2 gang – grey socket outlets</b>
1	IAB5T2A	90° angled sockets
1	IAB5T2B	45° angled sockets
		<b>4 gang – grey socket outlets</b>
1	IAB5T4A	90° angled sockets
1	IAB5T4B	45° angled sockets
		<b>2 gang – green socket outlets</b>
1	IAC5T2A	90° angled sockets
1	IAC5T2B	45° angled sockets
		<b>4 gang – green socket outlets</b>
1	IAC5T4A	90° angled sockets
1	IAC5T4B	45° angled sockets

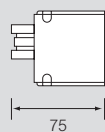


# Intersoc-R™ desk modules

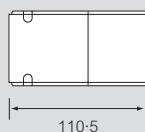
## technical information

### Under-desk dimensions (mm)

Compact and GST feed unit



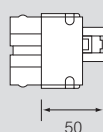
Feed unit



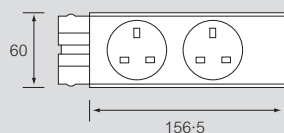
Blank end cap



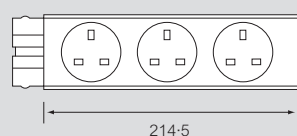
GST interconnect male



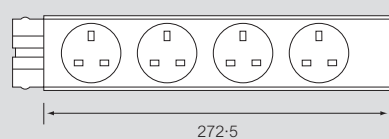
2 socket module<sup>1</sup>



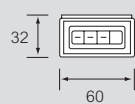
3 socket module<sup>1</sup>



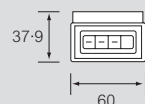
4 socket module<sup>1</sup>



Fixed – end view

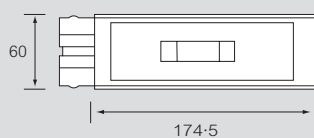


Rotatable – end view

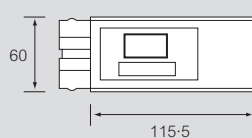


<sup>1</sup> : Dimensions only apply to BS sockets and not the international range

MCB, RCD protection module<sup>1</sup>

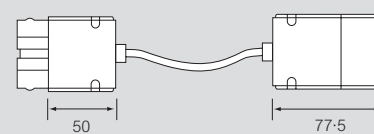


Protection module



<sup>1</sup> : 84.5 mm depth

Interconnection



## ■ 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 : 2008 and  
ISO 14001 : 2004 facility  
Assessed quality assurance certificate No. 2029

### Electrical test data

Rated current	up to 32 A
Rated voltage	250 V ~
Frequency	50/60 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 Electrical Systems in Office Furniture and Educational Furniture Specification

BS 7671 : 2008 incorporating amendment No. 1 : 2011. Requirements for Electrical Installation (IET Wiring Regulations 17th Edition)

### Electricity at Work Regulations 1989

### Health & Safety Legislation

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

BS 6396 : 2008 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 : 2008 (2011) (17th Edition)  
The Health and Safety Executive states that installations which conform to the standards laid down in BS 7671 : 2008 (2011) 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 : 2008 - 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 (543.7.1.103 (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>

<sup>1</sup> : European grades with nearest British Standard shown in brackets

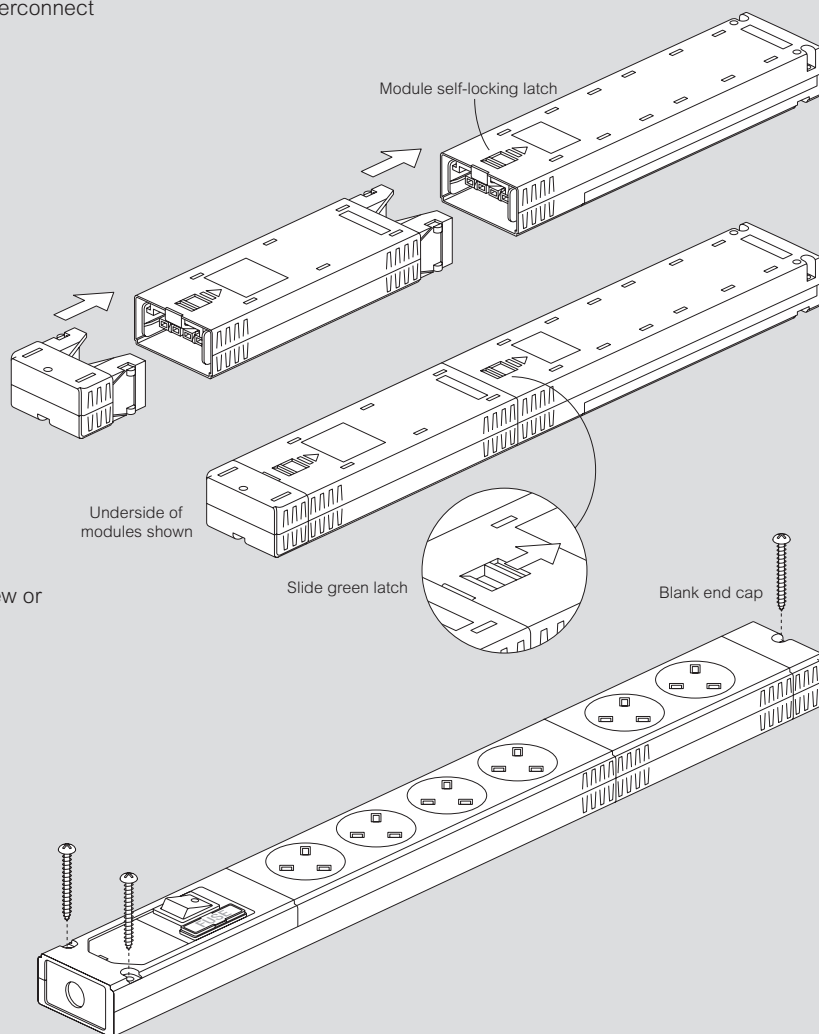
# Intersoc-R™ desk modules

## 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



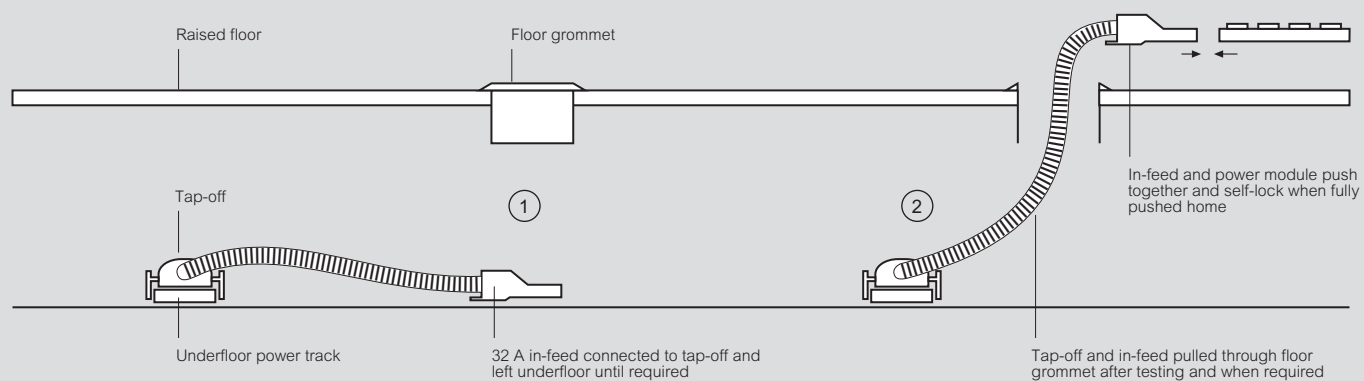
#### To fix modules to surface

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 power track 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)







# Intersoc<sup>®</sup> on-desk... power and data for modern workspaces

The new Electrak Intersoc on-desk range brings power, data and rapid USB charging capability to the modern workstation.

With its contoured edges, clean lines and stylish aluminium and mirror white finish, Intersoc on-desk blends in perfectly with contemporary office design schemes and enhances the functionality of the desk space.





# Intersoc<sup>®</sup> on-desk... delivers rapid USB charging

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 Intersoc on-desk modules offers a convenient answer to the growing demand for user-specific desk power and data access, no matter what the technology requirements.

## RAPID USB CHARGING

With an impressive 3.1 Amp dual charging facility, Intersoc on-desk's 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.

## SUPERCHARGED CHARGING

Twin USB charging modules offer a high specification, rapid charge facility



# ivering power, data and ging to the workstation

## HIGH PERFORMANCE DATA

CAT 6A keystone jack modules offer high performance data and are supplied via cables which neatly feed through the rear of the unit. CAT 6 modules are also available with simple RJ45 connection at both the front and rear of the unit.

## TAILORED TO YOUR REQUIREMENTS

Configuring Intersoc on-desk modules to your exact requirements couldn't be simpler. Choose from: flat (horizontal) or angled (vertical) mounted units; select any combination of power and data, and further enhance functionality with single or double Euro modules or any device from within Legrand's Arteor modular wiring accessories range.

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





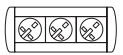

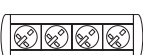





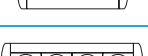

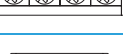







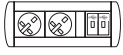









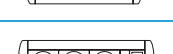

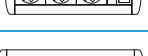

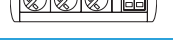


Left: Power is fed to the Intersoc on-desk unit via a choice of 13 A pre-wired plug, GST connector, or Intersoc-R under-desk connector

Above left: On-desk units are available in flat mounted (pictured) and angle mounted versions (data options are not available with horizontal units)

Above: High specification CAT 6A keystone jacks can be supplied with performance certificates. Easy to fix brackets are supplied with protective pads that won't damage the desk

Left hand page: Convenient personal power and data ports for laptops, with CAT 5 / CAT 6 RJ45 feed neatly nestling to the rear of the unit, plus dual USB charging facility





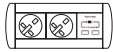

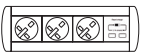





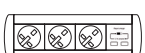

















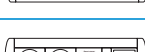

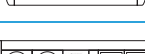




		Pre-wired with 3 m flex and BS 1363 plug	Pre-wired with 1.5 m flex and GST connector	Pre-wired with 1.5 m flex and Intersoc-R connector
	Description	Cat. No.	Cat. No.	Cat. No.
	 Horizontal unit with 2 x sockets individually fused at 3·15 A	HA3320AA	HB1320AA	HD1320AA
	 Horizontal unit with 3 x sockets individually fused at 3·15 A	HA3330AA	HB1330AA	HD1330AA
	 Horizontal unit with 4 x sockets individually fused at 3·15 A	HA3340AA	HB1340AA	HD1340AA
	 Vertical unit with 2 x sockets individually fused at 3·15 A	VA3320AA	VB1320AA	VD1320AA
	 Vertical unit with 3 x sockets individually fused at 3·15 A	VA3330AA	VB1330AA	VD1330AA
	 Vertical unit with 4 x sockets individually fused at 3·15 A	VA3340AA	VB1340AA	VD1340AA
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 1 x rear pluggable CAT 5 / CAT 6 RJ45 outlet	VA3320AB	VB1320AB	VD1320AB
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 2 x rear pluggable CAT 5 / CAT 6 RJ45 outlets	VA3320AC	VB1320AC	VD1320AC
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 1 x rear pluggable data USB outlet	VA3320AD	VB1320AD	VD1320AD
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 2 x rear pluggable data USB outlets	VA3320AE	VB1320AE	VD1320AE
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 1 x CAT 6A RJ45 outlet with 3 m data lead	VA3320AF	VB1320AF	VD1320AF
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus 2 x CAT 6A RJ45 outlets with 3 m data leads	VA3320AG	VB1320AG	VD1320AG
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus carrier to accept 1 x Euro Module (25 x 50 mm)	VA3320AK	VB1320AK	VD1320AK
	 Vertical unit with 2 x sockets individually fused at 3·15 A plus carrier to accept 2 x Euro Modules (50 x 50 mm)	VA3320AL	VB1320AL	VD1320AL
	 Vertical unit with 3 x sockets individually fused at 3·15 A plus 1 x rear pluggable CAT 5 / CAT 6 RJ45 outlet	VA3330AB	VB1330AB	VD1330AB
	 Vertical unit with 3 x sockets individually fused at 3·15 A plus 2 x rear pluggable CAT 5 / CAT 6 RJ45 outlets	VA3330AC	VB1330AC	VD1330AC
	 Vertical unit with 3 x sockets individually fused at 3·15 A plus 1 x rear pluggable data USB outlet	VA3330AD	VB1330AD	VD1330AD
	 Vertical unit with 3 x sockets individually fused at 3·15 A plus 2 x rear pluggable data USB outlets	VA3330AE	VB1330AE	VD1330AE

Fixings	
Description	Cat. No.
Long desk clamp for mounting horizontal units flat on the desk	H010
Adhesive fixing strips for mounting horizontal units	H002
Long desk clamp for mounting vertical units at an angle on desk	V010



## Intersoc® on-desk modules

with twin outlet USB charger (3·1 A)

			Pre-wired with 3 m flex and BS 1363 plug	Pre-wired with 1·5 m flex and GST connector	Pre-wired with 1·5 m flex and Intersoc-R connector
	Description		Cat. No.	Cat. No.	Cat. No.
		Horizontal unit with 1 x unfused socket plus twin outlet USB charger	HA3012AA	HB1012AA	HD1012AA
		Horizontal unit with 2 x sockets individually fused at 3·15 A plus twin outlet USB charger	HA3322AA	HB1322AA	HD1322AA
		Horizontal unit with 3 x sockets individually fused at 3·15 A plus twin outlet USB charger	HA3332AA	HB1332AA	HD1332AA
		Vertical unit with 1 x unfused socket plus twin outlet USB charger	VA3012AA	VB1012AA	VD1012AA
		Vertical unit with 2 x sockets individually fused at 3·15 A plus twin outlet USB charger	VA3322AA	VB1322AA	VD1322AA
		Vertical unit with 3 x sockets individually fused at 3·15 A plus twin outlet USB charger	VA3332AA	VB1332AA	VD1332AA
		Vertical unit with 1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable CAT 5 / CAT 6 RJ45 outlet	VA3012AB	VB1012AB	VD1012AB
		Vertical unit with 1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable CAT 5 / CAT 6 RJ45 outlets	VA3012AC	VB1012AC	VD1012AC
		Vertical unit with 1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable data USB outlet	VA3012AD	VB1012AD	VD1012AD
		Vertical unit with 1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable data USB outlets	VA3012AE	VB1012AE	VD1012AE
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 1 x rear pluggable CAT 5 / CAT 6 RJ45 outlet	VA3322AB	VB1322AB	VD1322AB
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 2 x rear pluggable CAT 5 / CAT 6 RJ45 outlets	VA3322AC	VB1322AC	VD1322AC
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 1 x rear pluggable data USB outlet	VA3322AD	VB1322AD	VD1322AD
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 2 x rear pluggable data USB outlets	VA3322AE	VB1322AE	VD1322AE
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 1 x CAT 6A RJ45 outlet with 3 m data lead	VA3322AF	VB1322AF	VD1322AF
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 2 x CAT 6A RJ45 outlets with 3 m data leads	VA3322AG	VB1322AG	VD1322AG
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus carrier to accept 1 x Euro Module (25 x 50 mm)	VA3322AK	VB1322AK	VD1322AK
		Vertical unit with 2 x sockets individually fused at 3·15 A, twin outlet USB charger plus double carrier to accept 2 x Euro Modules (50 x 50 mm)	VA3322AL	VB1322AL	VD1322AL

### Note:

All sockets are individually fused at 3·15 A and mounted at 45° (except units with a single socket outlet which will be unfused and mounted at 90°).

Other options are available to special order. Contact us on +44(0) 845 600 6266

CAT 5 / CAT 6 outlets have a rear facing RJ45 that will accept either CAT 5 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

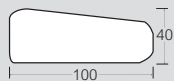
The twin outlet charging USB can supply 3·1 A shared between the 2 outlets

The data USB outlets have a short flying lead and type-A receptacle at the rear for USB connection to the PC (no USB cabling is included with the product)

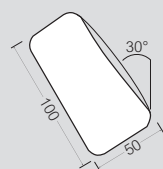
Units supplied with carriers to accept Euro modules will be supplied with apertures at the rear for the passing of data or AV cables

**■ On-desk dimensions (mm)**

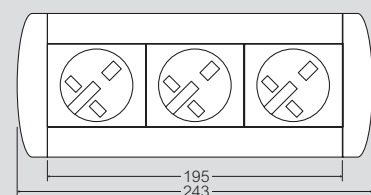
Horizontal units



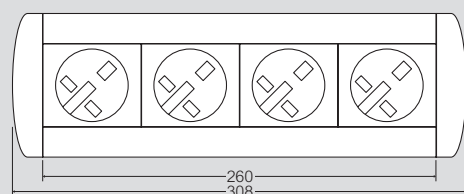
Vertical units



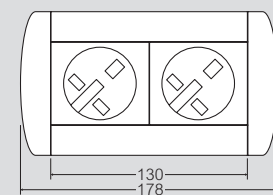
Unit with 3 x sockets



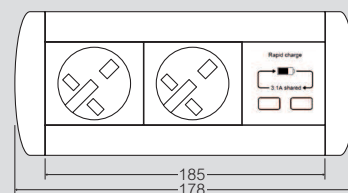
Unit with 4 x sockets



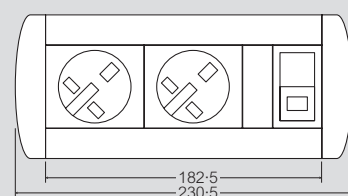
Unit with 2 x sockets



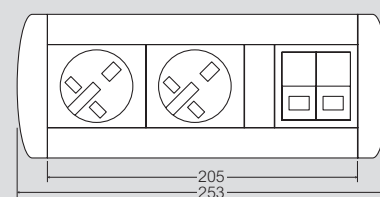
Unit with 2 x sockets plus twin outlet USB charger



Unit with 2 x sockets plus 1 x CAT 5 / CAT 6 RJ45 outlet

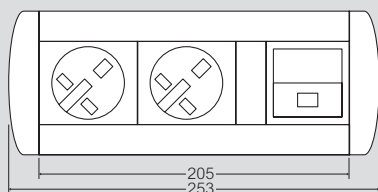


Unit with 2 x sockets plus 2 x CAT 5 / CAT 6 RJ45 outlets

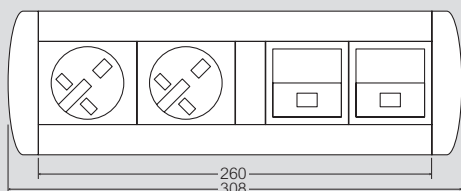


### ■ On-desk dimensions (mm) (continued)

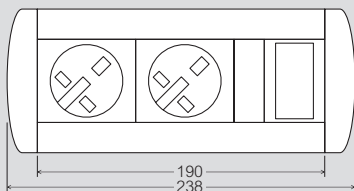
Unit with 2 x sockets plus 1 x CAT 6A RJ45 outlet



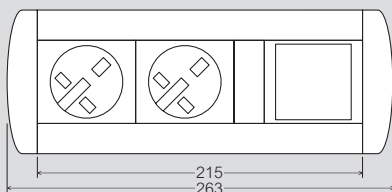
Unit with 2 x sockets plus 2 x CAT 6A RJ45 outlets



Unit with 2 x sockets plus carrier for Euro Module (25 x 50 mm)



Unit with 2 x sockets plus carrier for Euro Modules (50 x 50 mm)



All dimensions (mm) are nominal

### ■ Testing and accreditation



Complies with BS 5733 and relevant parts of BS 1363-2  
Manufactured within an approved ISO 9001 : 2008 and  
ISO 14001 : 2004 facility

### ■ BS 6396 : 2008

Electrical Systems in Office Furniture and Educational Furniture Specification

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

BS 6396 : 2008 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

### Material specification

Module housing	aluminium
Module fascia	polycarbonate
Socket outlets	polycarbonate
End caps	flame retardant 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 A
Output power :	15 W (max.)
Over current protection :	3·8 A (max.)
Output connector :	2 x USB Type A sockets
Current per socket :	2 A (max.)



## Contact details

### Quotations and Technical Support:

Legrand Electric Ltd.

Great King Street North,  
Birmingham, B19 2LF

Tel: +44 (0) 845 600 6266

Fax: +44 (0) 845 600 6760

E-mail: [powersales.uk@legrand.co.uk](mailto:powersales.uk@legrand.co.uk)

### Customer Services:

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Medomsley Road, Consett,  
County Durham, DH8 6SR

Tel: +44 (0) 845 600 6266

Fax: +44 (0) 845 600 6366

E-mail: [powersales.uk@legrand.co.uk](mailto:powersales.uk@legrand.co.uk)

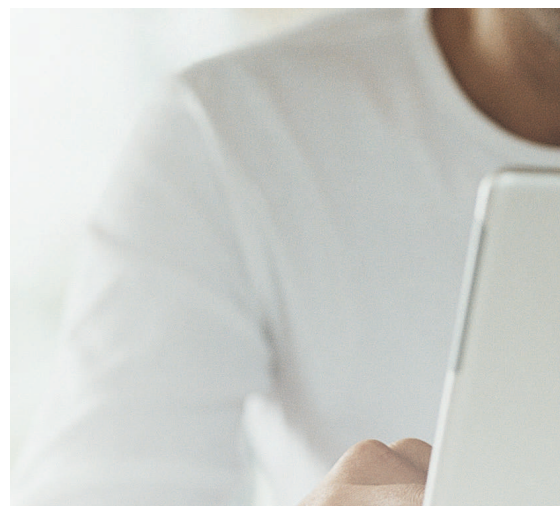
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Great King Street North,  
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Tel: +44 (0) 870 608 9000

Fax: +44 (0) 870 608 9004



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