A Group brand Digrand

POWERING THE WORKPLACE PRODUCT GUIDE







POWERED BY SPECIALISTS

Global strength built on local knowledge

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

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

CORPORATE SOCIAL RESPONSIBILITY

Legrand's 2014-2018 CSR roadmap is a natural extension to the governance and sustainable development approach in which the company has been engaged for many years. The CSR roadmap firmly asserts Legrand's ongoing commitment to sustainable development.





LEGRAND'S POWER DISTRIBUTION BUSINESS UNIT

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









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ELECTRAK® the specialist in power distribution throughout the workplace



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

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

Llegrand

Powering the workplace



UNDERFLOOR POWER

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



POWERTRACK See page 6



CAVITY FLOOR BOXES See page 24

WORKSTATION POWER

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





INTERSOC-R See page 36

INTERSOC ON-DESK See page 46

FULLY ADDRESSABLE LIGHTING CONTROL

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



BUSCOM power and data backbone See page 54



LIGHTRAK lighting control system Visit: www.legrand.co.uk





FLOOR GROMMETS See page 32





ELECTRAK® UK manufacturing Global recognition

OVER 30 YEARS' EXPERIENCE

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

INDUSTRY EXPERTS

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



TRUSTED THROUGHOUT THE UK AND ACROSS THE WORLD



UNITED KINGDOM

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



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



ASIA PACIFIC

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

QUALITY ASSURED **(** UK MANUFACTURING **F**

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

BUILDING INFORMATION MODELLING

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

Autodesk Revit files are now available for Electrak powertrack, floor boxes and Buscom trunking. **Download Revit files at: www.legrand.co.uk**





POWERTRACK adaptable, reliable underfloor power

Clegrand



THE INDUSTRY STANDARD IN UNDERFLOOR POWER

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

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

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



Integral track connector plugs into feed unit



Lengths simply push-fit together



Integral fixing brackets for rapid installation



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



Electrak[®] powertrack / underfloor busbar system

selection chart

	Description	Length (m)	
Track lengths with 300 mm socket centres			
	4 outlets	1.2	
	6 outlets	1.8	
	8 outlets	2.4	
	12 outlets	3.6	
Track feeds			
Chief Chief		_	
	Excluding cables and conduit		
	Flexible metal conduit		
	Flexible metal conduit		
Standard tap-off / auxiliary earth tap-off			
Consecution of the second seco	32 A unfused 16 mm Ø L, N, PE	3	
		3	
	13 A fused 16 mm Ø L, N, PE	5	
	13 A 543·7 fused 16 mm Ø L, N, PE	3	
Low noise / clean earth tap-off		5	
		3	
	32 A unfused 16 mm Ø CE, L, N, PE	5	
PERSONAL DESCENTION OF THE PERSON OF THE PER	13 A fused 16 mm Ø CE, L, N, PE	3	
		5	
	13 A 543·7 fused 16 mm Ø CE, L, N, PE	5	
Dual circuit tap-off			
	32 A unfused 20 mm Ø CE, L1, N1 L2, N2, PE	3	
Contraction of the second seco	52 A diffused 20 mill Ø CL, LT, NT L2, N2, FL	5	
3 phase tap-off			
	32 A 415 V 3 phase 20 mm Ø L1, L2, L3, N, PE	3	
		5	
Contraction of the second second	32 A L1 unfused reconfigurable live pin 16 mm Ø L1, N, PE	5	
Commandation of the second sec	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	5	
	Key code / Busbar arrangement		

ELECTRAK 24 Standard system (white)	ELECTRAK 25 Low noise / clean earth system (green)	ELECTRAK 26 Dual circuit system (dark green)	ELECTRAK 27 3 phase system (grey)	ELECTRAK 28 Auxiliary 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
DI TOLI		BITOLI		11 0021
 -	JP2332	JP2332	_	-
-	JP2532	JP2532	-	-
 -	JP2313	JP2313	_	-
-	JP2513	JP2513	_	-
 -	JP2327	JP2327	-	-
-	JP2527	JP2527	_	-
-	-	KP3328	_	_
_	_	KP3528	_	_
_	_	_	NZ4331	_
-	-	-	NZ4531	-
-	-	_	NP43321	_
-	-	-	NP45321	-
-	-	-	NP43021	-
-	-	-	NP45021	-
 -	-	-	NP43031	-
-	-	-	NP45031	-
⊣II ∪ ∪ PE N2 L2	PE CEN1L1		PE N L1 L2 L3	PE N1 L1



Electrak® 24 powertrack / underfloor busbar system

standard system (white)



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

Approved to ASTA Standard 138 and ISO 9001 : 2008 Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2008 + AMD 3 : 2015 IET Wiring Regulations A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Track system components	Pack	Cat. Nos.	Tap-off units
		Electrak 24 standard track lengths 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			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 ¹ Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A
1 1 1 1	DA1183 DA1243	1.2 m, 4 outlets, 2 floor fixing brackets 1.8 m, 6 outlets, 2 floor fixing brackets 2.4 m, 8 outlets, 2 floor fixing brackets 3.6 m, 12 outlets, 3 floor fixing brackets Track feed unit	1 1	DP1332 DP1532	5 m
1	DF1010	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit Flexible interlinks Can be used to overcome obstructions or	1 1	DP1313 DP1513	
1 1 1	DW1010	as corners where required Excluding cables and conduit 1·2 m flexible metal conduit 2·4 m flexible metal conduit Special fixing brackets	1 1	DP1327 DP1527	16 mm Ø, L, N, PE 3 m 5 m
1		Required when track is raised off surface level Brackets raise track by 21 mm and should be spaced 600 mm apart For fitting under track body and track feed For fitting under integral track connectors			Tap-off units specifically for the U.A.E.To meet the local requirements, these tap-offs contain silver-flashed blades, larger 20 mm Ø conduits and minimum 4 mm² conductors32 A unfused
	52.200				L (red), N (black), PE (green/yellow) 3 m U.A.E. 5 m U.A.E. 13 A fused L (red), N (black), PE (green/yellow)
					3 m U.A.E.

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 conduit¹ Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A

Electrak® 25 powertrack / underfloor busbar system

low noise / clean earth system (green)



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

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Pack	Cat. Nos.	Track system components
		Electrak 25 low noise / clean earth track lengths
		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 1 1 1	JA2123 JA2183 JA2243 JA2363	1.8 m, 6 outlets, 2 floor fixing brackets 2.4 m, 8 outlets, 2 floor fixing brackets
		Track feed unit
1	JF2010	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit
		Flexible interlinks
		Can be used to overcome obstructions or as corners where required
1 1 1	JW2010	Excluding cables and conduit 1.2 m flexible metal conduit 2.4 m flexible metal conduit
		Special fixing brackets
		Required when track is raised off surface level Brackets raise track by 21 mm and should be spaced 600 mm apart
1 1	DZ1210 DZ1230	

32 A unfused 16 mm Ø, CE, L, N, PE JP2332 JP2532 3 m 5 m 1 13 A fused 16 mm Ø, CE, L, N, PE JP2313 3 m JP2513 5 m 13 A 543.7 fused - high integrity 16 mm Ø, CE, L, N, PE JP2327 3 m JP2527 5 m

Pack Cat. Nos. Tap-off units



Electrak[®] 26 powertrack / underfloor busbar system

dual circuit system (dark green)



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

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Pack	Cat. Nos.	Track system components	Pack
		The dual powertrack system has both standard and low noise / clean earth systems incorporated	
		Electrak 26 dual circuit track lengths	
		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 1 1 1	KA3183 KA3243	 1·2 m, 4 outlets, 2 floor fixing brackets 1·8 m, 6 outlets, 2 floor fixing brackets 2·4 m, 8 outlets, 2 floor fixing brackets 3·6 m, 12 outlets, 3 floor fixing brackets 	1 1
		Track feed unit	
1	KF3010	With two 25 mm diameter holes suitable for MICC, armoured cables or single core cables in conduit	1 1
		Flexible interlinks	
		Can be used to overcome obstructions or as corners where required	1
1 1 1	KW3010	Excluding cables and conduit 1·2 m flexible metal conduit 2·4 m flexible metal conduit	1
		Special fixing brackets	1
		Required when track is raised off surface level Brackets raise track by 21 mm and should be spaced 600 mm apart	1
1		For fitting under track body and track feed For fitting under integral track connectors	1

0 1011	. 2000 - 7	
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 ¹ Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A
		Standard 32 A unfused
1	DP1332 DP1532	16 mm Ø, L, N, PE 3 m 5 m
	21 1002	Standard 13 A fused
		16 mm Ø, L, N, PE
1 1	DP1313 DP1513	3 m
		Standard 13 A 543·7 fused
		16 mm Ø, L, N, PE
1 1	DP1327 DP1527	
		Low noise / clean earth 32 A unfused
		16 mm Ø, CE, L, N, PE
1 1	JP2332 JP2532	3 m 5 m
	01 2002	Low noise / clean earth 13 A fused
		16 mm Ø, CE, L, N, PE
1	JP2313 JP2513	3 m
1	JP2513	5 m Low noise / clean earth 13 A 543·7 fused
		16 mm Ø, CE, L, N, PE
1	JP2327	3 m
1	JP2527	5 m
		Dual circuit 32 A unfused
1	KD2220	20 mm Ø, CE, L1, N1, L2, N2,PE
1 1	KP3328 KP3528	

Electrak[®] 27 powertrack / underfloor busbar system 3 phase system (grey)



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Approved to ASTA Standard 138 and ISO 9001 : 2008 Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2008 + AMD 3 : 2015 IET Wiring Regulations A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Track system components	Pack
		Electrak 27 3 phase track lengths	
		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 1 1 1	NA4183	 1·2 m, 4 outlets, 2 floor fixing brackets 1·8 m, 6 outlets, 2 floor fixing brackets 2·4 m, 8 outlets, 2 floor fixing brackets 3·6 m, 12 outlets, 3 floor fixing brackets 	1
		Track feed unit	
1	NF4010	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit	
		Flexible interlinks	1
		Can be used to overcome obstructions or as corners where required	1
1 1 1	NW4010	Excluding cables and conduit 1·2 m flexible metal conduit 2·4 m flexible metal conduit	
		Special fixing brackets	1 1
		Required when track is raised off surface level Brackets raise track by 21 mm and should be spaced 600 mm apart	
1 1		For fitting under track body and track feed For fitting under integral track connectors	1

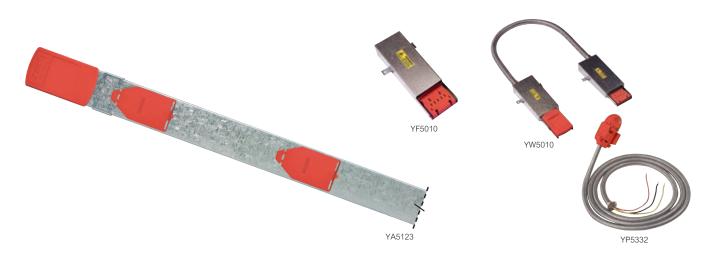
Pack	Cat. Nos.	Tap-off units				
		Tap-off length is determined by the cable and not the conduit length, e.g. a 3 m tap-off has 3 m of cable and 2.6 m of flexible metal conduit ¹ Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A				
		32 A 415 V 3 phase				
		20 mm Ø, L1, L2, L3, N, PE				
1 1	NZ4331 NZ4531	3 m 5 m				
		32 A L1 ² unfused				
		Reconfigurable live pin 16 mm Ø, L, N, PE				
1 1	NP4332 NP4532	3 m 5 m				
		32 A L2 ² unfused				
		Reconfigurable live pin 16 mm Ø, L, N, PE				
1 1	NP4302 NP4502	3 m 5 m				
		5 m 32 A L3² unfused				
		Reconfigurable live pin 16 mm Ø, L, N, PE				
1 1	NP4303 NP4503	3 m 5 m				
		Tap-off units specifically for the U.A.E.				
		To meet the local requirements, these tap-offs contain silver-flashed blades, larger 20 mm Ø conduits, minimum 4 mm ² conductors and use RYB colour coding for the conductors				
		32 A unfused				
1 1	NP4332R NP4532R	3 m L1 U.A.E. (R) 5 m L1 U.A.E. (R)				
1	NP4302Y	3 m L2 U.A.E. (Y)				
1		5 m L2 U.A.E. (Y) 3 m L3 U.A.E. (B)				
1	NP4503B	5 m L3 U.A.E. (B)				

1 : Tap-offs are supplied as standard with flexible metal conduit For alternative wiring solutions, contact us on +44 (0) 345 600 6266 2 : All NP tap-offs are reconfigurable between L1, L2, or L3 for 3 phase track



Electrak[®] 28 powertrack / underfloor busbar system

auxiliary earth system (red)



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A compact system that can be instance in noor voids as low as 40 min					
Pack	Cat. Nos.	Track system components			
		Electrak 28 auxiliary earth track lengths			
		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 1 1 1	YA5183	 1·2 m, 4 outlets, 2 floor fixing brackets 1·8 m, 6 outlets, 2 floor fixing brackets 2·4 m, 8 outlets, 2 floor fixing brackets 3·6 m, 12 outlets, 3 floor fixing brackets 			
		Track feed unit			
1	YF5010	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit			
		Flexible interlinks			
		Can be used to overcome obstructions or as corners where required			
1 1 1	YW5010	Excluding cables and conduit 1·2 m flexible metal conduit 2·4 m flexible metal conduit			
		Special fixing brackets			
		Required when track is raised off surface level Brackets raise track by 21 mm and should be spaced 600 mm apart			
1 1	DZ1210 DZ1230	For fitting under track body and track feed For fitting under integral track connectors			

TUON	041.1100.	
		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 ¹ Tap-off units in excess of 3 m should only be used if they contain a fuse or if the powertrack is protected by a protective device not exceeding 32 A
		32 A unfused
		16 mm Ø, L, N, PE
1 1	YP5332 YP5532	
		13 A fused
		16 mm Ø, L, N, PE
1	YP5313	
1	YP5513	5 m
		13 A 543·7 fused - high integrity
		16 mm Ø, L, N, PE
1	YP5327	
1	YP5527	5 m

Pack Cat. Nos. Tap-off units

Electrak tinned powertrack...

Designed to meet local standards

Guideline For Design, Testing and Installation Of Busways GL.GN.01. Issued by: Abu Dhabi Distribution Co. Low Voltage Switchgear Committee Issue: 2, Revision: 1, effective 01/02/2012

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

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

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

Approved to ASTA standard 138 and designed to be in accordance with the requirements of BS EN 60439-2: 2000 and BS EN 61534-22: 2009 (IEC 61534: 2009).

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

7.7 Busways, bus ducts and busbar risers

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

The Electrical Wiring Regulations 2007

Copyright The Regulation and Supervision Bureau (RSB)

The Electrak powertrack system uses equal size tinned copper busbars for live, neutral and earth conductors to meet with the requirements of The Regulation and Supervision Bureau of the Water, Wastewater and Electricity Sector in the Emirate of Abu Dhabi. As a specific requirement for use within Abu Dhabi, Legrand has developed a 'tinned' busbar which has been designed in line with the guidance for busways outlined by the Abu Dhabi Distribution Company (ADDC), as detailed below.





Electrak 28R tinned tap-offs

Electrak 28R tinned busbar connectors

Appendix 8. Colour identification for cables

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

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

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

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

Appendix 9. Capacity of conduits and trunking

	Diameter of Conduit (mm ²)					
Conduit (mm²)	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 2 x 4mm² conductors (excluding earths) housed in a 20mm ø metal flexible conduit.

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



ELECTRAK

Electrak® 25R tinned powertrack / underfloor busbar system

low noise / clean earth system (green)



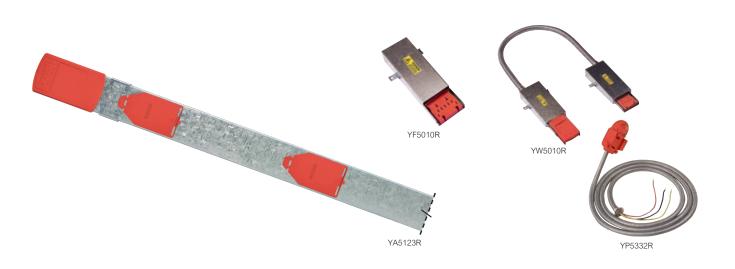
Selection charts **p. 8-9** Dimensions and technical information **p. 18-23**

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Pack	Cat. Nos.	Busbar system components	Pack	Cat. Nos.	Tap-off units
		63 A low noise / clean earth busbar lengths Busbar lengths fit together using the integral connectors on each length Lengths should always be secured using the integral			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 ¹ 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
		floor fixing brackets 300 mm socket centres			a protective device not exceeding 32 A 32 A unfused
1 1 1 1	JA2183R JA2243R	 1·2 m, 4 outlets, 2 floor fixing brackets 1·8 m, 6 outlets, 2 floor fixing brackets 2·4 m, 8 outlets, 2 floor fixing brackets 3·6 m, 12 outlets, 3 floor fixing brackets 	1	JP2332R JP2532R	20 mm Ø, CE, L, N, PE (4 mm²) 3 m
		Feed unit	'	JI 200211	13 A fused - high integrity
1	JF2010R	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit			20 mm Ø, CE, L, N, PE (4 mm²)
		Flexible interlinks	1	JP2314R JP2514R	
		Can be used to overcome obstructions or as corners where required		0. 201	
1 1 1	JW2010R	Excluding cables and conduit 1·2 m flexible metal conduit 2·4 m flexible metal conduit			
		Special fixing brackets			
		Required when busbar is raised off surface level Brackets raise the system by 21 mm and should be spaced 600 mm apart			
1 1		For fitting under lengths and feed units For fitting under integral connectors			

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Electrak® 28R tinned powertrack / underfloor busbar system auxiliary earth system (red)



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

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Approved to ASTA Standard 138 and ISO 9001 : 2008 Conforms to BS EN 61534-22 : 2014. Fully complies with the requirements of BS 7671 : 2008 + AMD 3 : 2015 IET Wiring Regulations A compact system that can be installed in floor voids as low as 48 mm

Pack	Cat. Nos.	Busbar system components	Pack	Cat. No
		63 A auxiliary earth busbar lengths		
		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 1		1.2 m, 4 outlets, 2 floor fixing brackets 1.8 m, 6 outlets, 2 floor fixing brackets		
1 1 1	YA5243R	2·4 m, 8 outlets, 2 floor fixing brackets 3·6 m, 12 outlets, 3 floor fixing brackets	1	YP533 YP553
		Feed unit		11 000
1	YF5010R	With one 25 mm diameter hole suitable for MICC, armoured cables or single core cables in conduit		N
		Flexible interlinks	1	YP5314 YP5514
		Can be used to overcome obstructions or as corners where required		
1		Excluding cables and conduit		
1 1		1·2 m flexible metal conduit 2·4 m flexible metal conduit		
		Special fixing brackets		
		Required when busbar is raised off surface level Brackets raise the system by 21 mm and should be spaced 600 mm apart		
1 1		For fitting under lengths and feed units 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 $2\cdot 6$ m of flexible metal conduit ¹ 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
		32 A unfused
		20 mm Ø, L, N, PE (4 mm²)
1 1	YP5332R YP5532R	
		13 A fused - high integrity
		20 mm Ø, L, N, PE (4 mm²)
1	YP5314R	
1	YP5514R	5 m

ELECTRAK

Electrak® powertrack / underfloor busbar system

design and installation

Dimensions

General installation notes

Electrak powertrack is a compact system that can be installed in floor voids as low as 48 $\mbox{ mm}$

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

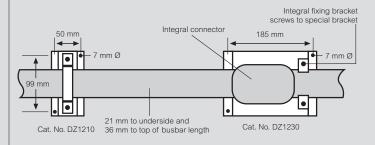
Optimum layout flexibility is achieved by positioning busbar lengths a maximum of $5\cdot 2$ m apart and $2\cdot 5$ m from the wall, and by connecting the 3 m tap-off units to floor outlet boxes. This means every part of the floor area can be served. Flexible interlinks can be used to overcome obstructions 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

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



118

32

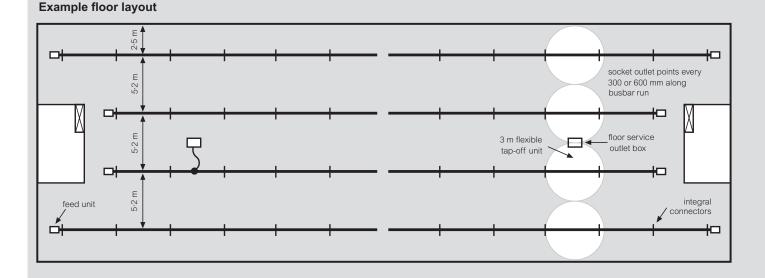
End view B

68

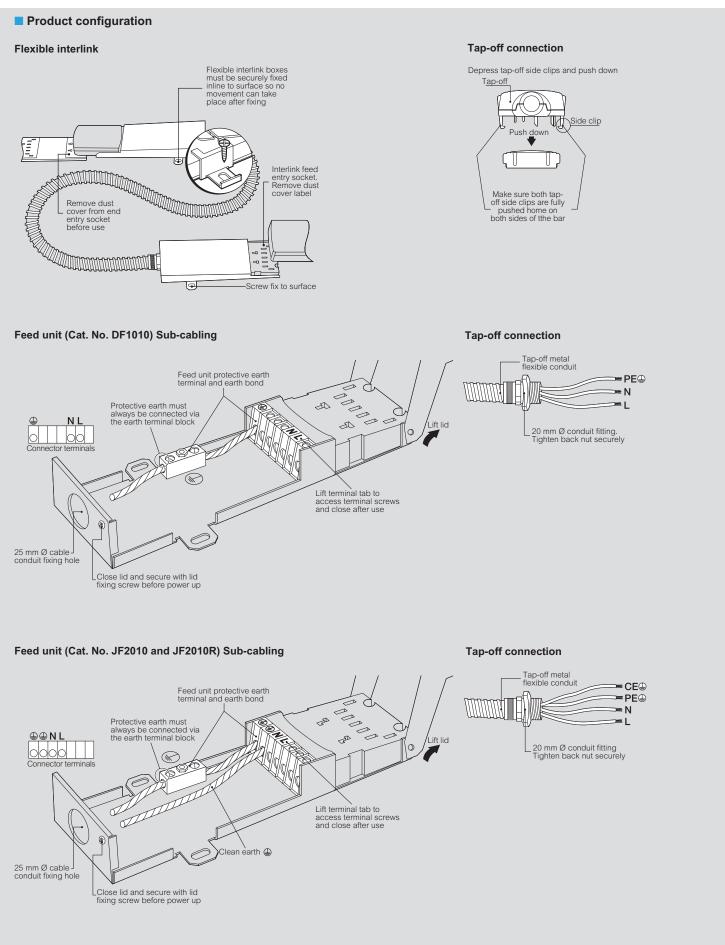
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65

► 92
Integral fixing bracket fixing centres



All dimensions (mm) are nominal



ELECTRAK

Electrak® powertrack / underfloor busbar system

design and installation (continued)

Product configuration (continued) Feed unit (Cat. No. KF3010) Sub-cabling Dual tap-off connection (dark green) Tap-off metal flexible conduit N1 ≍L1 Lift terminal tab to access terminal screws and close after use ⊂ CF⊕ = N2 ≔ L2 Feed unit protective earth terminal and earth bond 1.A. ≔ PE⊕ Protective earth must always be connected via the ~ earth terminal block 20 mm Ø conduit fitting Tighten back nut securely Connections L1, N1, CE = low noise L2, N2, PE = standard Lift lid 0 ⊕ ⊕ N1 L1 N2 L2 Connections L1, N1, CE = low noise L2, N2, PE = standard Connector terminals Clean èarth 🕀 2 x 25 mm Ø cable conduit fixing hole Close lid and secure with lid fixing screw before power up Feed unit (Cat. No. NF4010) Sub-cabling 3 phase tap-off connection Tap-off metal flexible conduit PE Feed unit protective earth terminal and earth bond = N L1 ()))))) L2 Protective earth must always be connected via the earth terminal block v.P = L3 6 🕀 N L1 L2 L3 ~ an P ift lid 20 mm Ø conduit fitting Tighten back nut securely α Lift terminal tab to access terminal screws and close after use 25 mm Ø cable conduit fixing hole Close lid and secure with lid fixing screw before power up Feed unit (Cat. No. YF5010 and YF5010R) Sub-cabling **Tap-off connection** Tap-off metal flexible conduit Feed unit protective earth terminal and earth bond = PE⊕ ≍ N 100111111 ≍ | Protective earth must TP always be connected via the earth terminal block 🕀 N L , Lift lid -11P \sim 20 mm Ø conduit fitting Tighten back nut securely 000 Conr ector terminals P Lift terminal tab to access terminal screws and close after use 25 mm Ø cable J conduit fixing hole Close lid and secure with lid fixing screw before power up

All dimensions (mm) are nominal

Electrak[®] powertrack / underfloor busbar system installation (continued)

1 Fix feed unit to surface Feed unit Make chalk line to align busbar lengths Direction of busbar run T 2 Connect busbar length to feed unit Integral connector Remove dust cover Busbar length Push down Make sure connector clips are fully pushed home on both sides Push down Ð Feed unit £ Additional length **3** Connect additional busbar lengths Remove dust cover before connecting additional lengths First fixing bracket Ŧ Tap-off outlets reusable plastic dust covers Pull out fixing bracket lugs and screw fix on both sides 4 Secure busbar lengths to surface All integral fixing brackets must be fixed to surface at 1.2 m fixing centres from first bracket on each busbar length

All dimensions (mm) are nominal



Electrak[®] powertrack / underfloor busbar system

technical data

Standards



Approved to ASTA Standard 138 BS EN 61534-22 : 2014 and IEC 61534-22 : 2014

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 + AMD 3 : 2015 (IET Wiring Regulations)

Ambient temperature rating factors

The current carrying capacity for a powertrack / underfloor busbar (In) is affected by the ambient temperature

For Electrak powertrack / underfloor busbar the ambient rating factor K α is equal to 1 for ambient temperatures up to and including 35° C

 $Iz = K\alpha In$

Where :

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

 $K\alpha$ = ambient temperature factor

For ambient temperatures exceeding 35° C the values of K α and Iz are given in the following tables

Powertrack / underfloor busbar system

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Ambient	20°C	25°C	30°C	35°C	40°C	45°C	50°C		
Κα		1		0.95	0.85	0.80			
lz		63	А	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	
Κα		1		0.95	0.85	0.80		
lz		32	А	30 A	27 A	25 A		

13 A fused tap-off (using 2.5 mm ² thermosetting 90°C cables)								
Ambient	20°C	20°C 25°C 30°C 35°C 40°C 45°C 50°C						
Κα		1						
lz	13 A							

References :

BS 7671 : 2008 incorporating amendment No. 3 : 2015

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 + AMD 3 : 2015 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 bv 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 mm² conductors, however in our fused 543.7 tap-offs, the 1.5 mm² earth conductor is replaced with a 4 mm² conductor and are therefore compliant 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 mm ² cable	11 mV/A/m					
Flexible corner assembly	1∙5 mV/A					
+ 10 mm ² cable	4·0 mV/A/m					

Mechanical data	E24 – E28	E28R
Number of conductors	3-6	3
Busbar conductor cross sectional area	13 mm ²	13 mm ²
Housing cross sectional area (copper equivalent)	13 mm ²	13 mm ²
Cable terminal capacity	16 mm ²	16 mm ²
Tap-off cable 32 A	4 mm ²	4 mm ²
Tap-off cable 13 A fused	1.5 mm ²	2·5 mm²
Tap-off conduit, up to 4 conductors	16 mmØ	20 mmØ
Tap-off conduit, 5 and 6 conductors	20 mm ²	N/A
Flexible corner cable (tri-rated, high temperature)	10 mm ²	10 mm ²
Flexible corner conduit	25 mmØ	25 mmØ
IP rating	40	40

Earth fault loop impedance	
Phase busbar	1·5 mΩ/m
Earth busbar	1·5 mΩ/m
Earth housing	1·1 mΩ/m
Earth busbar and housing	0·8 mΩ/m
Cable connector	0·4 mΩ
Integral connector	0·6 mΩ
32 A tap-off	0·6 mΩ
+ 4 mm ² cable	11 mΩ/m
Flexible corner assembly	1·5 mΩ
+ 10 mm ² 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

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



FLOOR BOXES choice, flexibility & easy installation

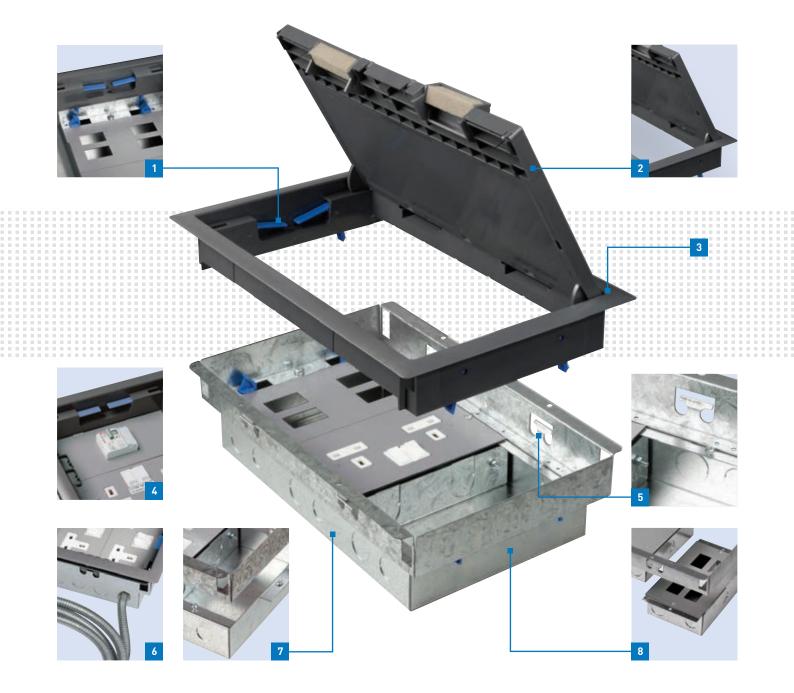
Raised access floor boxes and slab boxes offer complete versatility.

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



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



- Rapid fit /remove mechanism adjusts for flooring thickness
- 2 Quick-fit, reversible lid for rapid installation
- 3 Durable ABS trim and lid surround
- 4 Various RCD protection options available
- **5** Rapid fit push lock secures base in floor aperture
- 6 Available pre-wired with tap-off
- 7 Three depth options: 75mm, 85mm, 110mm
- 8 Single or separate compartment bases



access floor service outlet and slab mounted floor boxes

empty boxes and accessory plates

		2 compartm	ent	3 с	ompartment	4 compartment		
To configure boxes as required, select : 1. Box depth 2. Number of compartments required 3. Desired accessory plates		238 mm	m	258 mm		220 mm		
Empty boxes	Example	100 mm width plate	s	w	100 mm idth plates	75 mm width plates		
Single base – 75 mm depth		CR2001			CR011	CR4001		
Single base – 85 mm depth (standard box)	0000000	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	00000	CR2005			CR015	CR4005		
Separate compartment base – 110 mm depth		CR2006			CR016	CR4006		
Slab boxes		1 compartment	2 comp	artment	3 compartment	4 compartment		
Fix directly onto floor slab (supplied empty)		CR5102	CR5	202 CR5302		CR5402		
Accessory plates		For 1, 2	and 3 coi	For 4 compartment boxes				
Blank plate	• •		CR	020		CR4100		
2 gang switched socket outlet			CR)22		CR4101		
2 gang switched socket outlet, low noise / clean earth	. "Ш"		CR)23		CR4102		
2 gang non-standard switched socket outlet			CR)27		CR4103		
2 gang unswitched socket outlet	·		CR)29		CR4104		
3 gang unswitched socket outlet			CR)30		CR4105		
3 gang unswitched socket outlet, low noise / clean earth			CR)44		CR4118		
2 gang RCD socket outlet	·▲∎♣・		CR)36		CR4111		
2 gang RCD socket outlet, low noise / clean earth			CR)43		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		CR028		CR028		-
Angled punched plate for 4 x RJ45 sockets (37 mm x 22 mm cut-outs)		CR042			CR042 C			
2 x LJ2 accessory plate (50 mm fixing centres)	·LL·	CR031			CR031 CR			
4 x BNC connector plate	••		CR033 CR4108			CR4108		
4 x Data / telecoms plate (37 mm x 22 mm cut-outs)			CR024 CR4112			CR4112		
6 x Data / telecoms plate (37 mm x 22 mm cut-outs)			CR)25		CR4113		

access floor pre-wired service outlet boxes

and accessory plates

Pre-wired service outlet box 1. Select powertrack tap-off ar 2. Select additional accessory	nd desired configurat										
3 compartment				Includes switched so				Includes 1 x 2 gang RCD socket outlet		Includes 2 x 2 gang RCD socket outlet	
	Electrak 24 - s	standard tap-off		787.				- ସାସ -			· • • • • • • • • • • • • • • • • • • •
		DP1332 - 3 r	n	CR	100	CR10	2	CI	R100R		CR102R
	C	DP1532 - 5 r	n	CR	101	CR10	3	CI	R101R		CR103R
I Company		i - low noise / rth tap-off									
30 mm		JP2332 - 3 n	n	CR	110	CR11	2	CI	R110R		CR112R
366 mm		JP2532 - 5 n	n	CR	111	CR11	3	CI	R111R		CR113R
	Electrak 28 - aux	iliary earth tap-o	off								
		YP5332 - 3 r	n	CR	104	CR10	6	CI	R104R		CR106R
		YP5532 - 5 r	n	CR	105	CR10	7	CI	R105R		CR107R
Additional plates for 3 c	ompartment box	es									
Blank plate				CR020		J2 accessory pla nm fixing centres].	CR031
Punched plate for 2 x 1 gar (60·3 mm fixing centres)	ng accessories			CR026	4 x BNC connector plate			•• <u></u>]	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 RJ45 sockets (37 mm x 2				CR042	6 x Data / telecoms plate (37 mm x 22 mm cut-outs)			·		CR025	
4 compartment				Includes 1 switched s outlet	ocket	Includes 2 x twin switched socket outlet	Includes 1 RCD soci		Includes 2 x 2 RCD socket o		Modular RCD protecting 2 x twi switched socked outlets and 1 spa compartment
	Electrak 24 - s	ctrak 24 - standard tap-off		v _n v		.9 <mark>97</mark>	. PİP		980 197		. 2°2.
		DP1332 - 3	m	CR12	:0	CR122	CR1	20R	CR122R		CR4402
		DP1532 - 5	m	CR12	:1	CR123	CR121R		CR123R		CR4403
		- low noise / rth tap-off									
220 m 052		JP2332 - 3 r	n	CR13	0	CR132	CR130R		CR132R		CR4412
3 1 366 mm		JP2532 - 5 r	n	CR13	1	CR133	CR131R		CR133R		CR4413
	Electrak 28 - aux	iliary earth tap-o	off								
		YP5332 - 3 i	m	CR12	4	CR126	CR1	24R	CR126R		CR4406
		YP5532 - 5 i	m	CR12	:5	CR127	CR1	25R	CR127R		CR4407
Additional plates for 4 compartment box Blank plate		es 		CR4100	4 x E	3NC connector p	late				CR4108
Angled punched plate for 4 x RJ45 sockets (37 mm x 22 mm cut-outs)				4 x		4 x Data / telecoms plate (37 mm x 22 mm cut-outs)					CR4112
2 x LJ2 accessory plate (50 mm fixing centres)		·II.	(CR4106		6 x Data / telecoms plate (37 mm x 22 mm cut-outs)					CR4113



access floor service outlet boxes

empty boxes



slab and screed mounted floor boxes empty boxes



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

CR5312 Includes grey ABS lid and trim



Selection charts **p. 26** Dimensions and technical information **p. 31**

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.	Slab floor boxes
		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
		100 mm compartment widths
		Use plates from the 1, 2 and 3 compartment floor box section p. 26
1	CR5102	1 compartment slab floor box
1	CR5202	2 compartment slab floor box
1	CR5302	3 compartment slab floor box
		75 mm compartment widths
		Use plates from the 4 compartment floor box section $\textbf{p. 26}$
1	CR5402	4 compartment slab floor box
		Screed floor boxes
		25 mm conduit fed, to suit screed 75 mm to 90 mm deep
1	CR5312	3 compartment screed floor box
1	CR5412	4 compartment screed floor box

Edge trim boxes, and metal or lockable lids are available to order ++ contact us on +44 (0) 345 600 6266

Selection charts p. 26
Selection charts p. 26 Dimensions and technical information p. 31

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

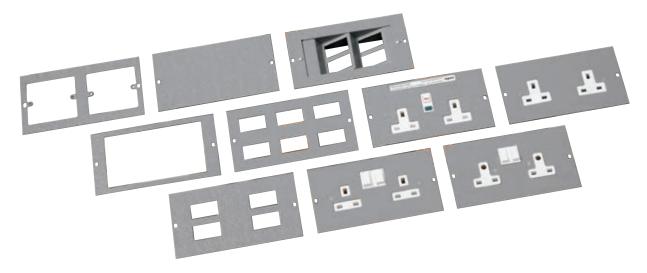
Grey mouldings. Alternative colours available to special order

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.	2 compartment floor boxes	Pack	Cat. Nos.	Slab floor boxes
		Empty boxes			Fixes directly onto floo
		100 mm compartment widths			Fast and efficient insta plates
1	CR2001	Single base - 75 mm depth			Wide range of power a
1		Single base - 85 mm depth (standard box)			Manufactured from 0.9
1		Single base - 110 mm depth			Each compartment has 2 entries for 25 mm flex
1 1		Separate compartment base - 75 mm depth Separate compartment base - 85 mm depth			
1		Separate compartment base - 00 mm depth			100 mm compartment
	01.2000				Use plates from the 1, box section p. 26
		3 compartment floor boxes	1	CR5102	1 compartment slab flo
		Empty boxes	1		2 compartment slab flo
		100 mm compartment widths	1		3 compartment slab flo
1	CR011	Single base - 75 mm depth		0110002	
1		Single base - 85 mm depth (standard box)			75 mm compartment
1	CR013	Single base - 110 mm depth			Use plates from the 4 or p. 26
1		Separate compartment base - 75 mm depth	1	CD5402	4 compartment slab flo
1 1		Separate compartment base - 85 mm depth Separate compartment base - 110 mm depth	I	CK0402	4 compartment slab lic
I	CINUTO	Separate compartment base - 110 mm depth			Screed floor boxes
		4 compartment floor boxes			25 mm conduit fed, to
		Empty boxes			to 90 mm deep
		75 mm compartment widths	1	CR5312	3 compartment screed
1	CR4001	Single base - 75 mm depth	1	CR5412	4 compartment screed
1		Single base - 85 mm depth (standard box)			·
1		Single base - 110 mm depth			
1		Separate compartment base - 75 mm depth			
1		Separate compartment base - 85 mm depth			
1	CR4006	Separate compartment base - 110 mm depth			

access floor service outlet boxes accessory plates and ancillary items





Selection charts **p. 26-27** Dimensions and technical information **p. 31**

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

Pack	Cat. Nos.	1, 2 and 3 compartment accessory plates	Pack	Cat. Nos.	4 compartment accessory plates
		100 mm width			75 mm compartment widths
1	CR020	Blank plate	1	CR4100	Blank plate
1	CR022	2 gang switched socket outlet	1	CR4101	2 gang switched socket outlet
1	CR023	2 gang switched socket outlet, low noise / clean earth	1	CR4102	2 gang switched socket outlet, low noise / clean earth
1	CR027	2 gang non-standard switched socket outlet	1	CR4103	2 gang non-standard switched socket outlet
1	CR029	2 gang unswitched socket outlet	1	CR4104	2 gang unswitched socket outlet
1	CR030	3 gang unswitched socket outlet	1	CR4105	3 gang unswitched socket outlet
	CR044	3 gang unswitched socket outlet, low noise / clean earth		CR4118	3 gang unswitched socket outlet, low noise / clean earth
1	CR036	2 gang RCD socket outlet	1	CR4111	2 gang RCD socket outlet
1	CR043	2 gang RCD socket outlet, low noise / clean earth	1	CR4117	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	CR4115	Angled punched plate for 4 x RJ45 (37 mm x 22 mm cut-outs)
1	CR028		1	CR4106	2 x LJ2 accessory plate (50 mm fixing centres)
		(120.6 mm fixing centres)	1	CR4108	4 x BNC connector plate
1	CR042		1	CR4112	4 x Data / telecoms plate (37 mm x 22 mm cut-outs)
		(37 mm x 22 mm cut-outs)	1	CR4113	6 x Data / telecoms plate (37 mm x 22 mm cut-outs)
1		2 x LJ2 accessory plate (50 mm fixing centres)			
1		4 x BNC connector plate			Ancillary items for service outlet boxes
1		4 x Data / telecoms plate (37 mm x 22 mm cut-outs)			· · · · · · · · · · · · · · · · · · ·
1	CR025	6 x Data / telecoms plate (37 mm x 22 mm cut-outs)	1		Floor tile cut-out template – 2 compartment

1	CR0001	Floor tile cut-out template – 2 compartment
1	CR0003	Floor tile cut-out template – 3 / 4 compartment
10	CR0000	Cable outlet flap
10	CR0010	Cable routers
50	CR0011	Screws for accessory plates
1	CR0012	Pack of 5 keys for use with lockable floor boxes
1	CR0021	Plastic lid and trim for 2 compartment floor box
1	CR0022	Plastic lid and trim for 3 / 4 compartment floor box
1	CR0023	Lockable lid assembly for 2 compartment floor box
1	CR0024	Lockable lid assembly for 3 / 4 compartment floor box
1	CR0005	Mounting frame for vinyl floor. For 2 compartment box 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, 16-17



access floor pre-wired service outlet boxes

3 and 4 compartment







Selection chart **p. 27** Dimensions and technical information **p. 31**

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

Pack	Cat. Nos.	3 compartment pre-wired boxes with 1 x TSSO	Pack	Cat. Nos.	4 compartment pre-wired boxes with 1 x TSSO		
		100 mm compartment widths			75 mm compartment widths		
		Single base – 85 mm depth, pre-wired with :			Single base – 85 mm depth, pre-wired with :		
1	CR100	3 m Electrak 24 standard tap-off Cat. No. DP1332	1	CR120	3 m Electrak 24 standard tap-off Cat. No. DP1332		
1	CR101	5 m Electrak 24 standard tap-off Cat. No. DP1532	1	CR121	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	CR130	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	CR131	5 m Electrak 25 low noise / clean earth tap-off Cat. No. JP2532		
1	CR104	3 m Electrak 28 auxiliary earth tap-off	1	CR124	3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332		
		Cat. No. YP5332	1	CR125	5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532		
1	1 CR105 5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532						
	Cal. NO. 1P3552				4 compartment pre-wired boxes with 2 x TSSO		
		3 compartment pre-wired boxes with 2 x TSSO			75 mm compartment widths		
		100 mm compartment widths			Single base – 85 mm depth, pre-wired with :		
		Single base – 85 mm depth, pre-wired with :	1	CR122	3 m Electrak 24 standard tap-off Cat. No. DP1332		
1	CR102	3 m Electrak 24 standard tap-off Cat. No. DP1332	1	CR123	5 m Electrak 24 standard tap-off Cat. No. DP1532		
1	CR103	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	CR112	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	CR113	5 m Electrak 25 low noise / clean earth tap-off	1	CR126	3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332		
	00400	Cat. No. JP2532	1	CR127	5 m Electrak 28 auxiliary earth tap-off Cat. No. YP5532		
1	CRIU6	3 m Electrak 28 auxiliary earth tap-off Cat. No. YP5332					
1	CR107	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 CR100R 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) 345 600 6266



Llegrand

access floor service outlet boxes with RCD protection



CR4401



Selection charts **p. 26-27** Dimensions and technical information (opposite)

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

Pack	Cat. Nos.	Floor boxes with RCD protection and 2 x TSSO
		Boxes contain 1 spare 75 mm width compartment
1	CR4400	Includes standard sockets
1	CR4401	Includes low noise sockets
		Pre-wired RCD protected floor boxes Boxes contain RCD and 2 x TSSO with
	004400	1 spare 75 mm compartment
1		Pre-wired with Cat. No. DP1332 tap-off Pre-wired with Cat. No. DP1532 tap-off
1		
1 1		Pre-wired with Cat. No. JP2332 tap-off 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

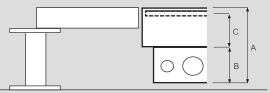
Lid and trim mouldings are precision engineered from hard wearing durable ABS. Lid is reinforced with a galvanised mild steel plate Mounting frame and box base -0.9 mm thick galvanised steel Floor service unit conforms to IEC-61534-22

Wiring

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

Grey mouldings. Alternative colours available to special order Grey plates

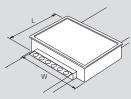
Dimensions from top of floor tile into floor void



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

Screed floor boxes

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



To install access floor box



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

Floor tile cut-out dimensions

2 compartment : 263 mm x 203 mm¹ 3 and 4 compartment : 340 mm x 203 mm¹ 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 & 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



A STATES

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

L legrand

- Spring loaded screws for rapid installation
- Available pre-wired to powertrack tap-off



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

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

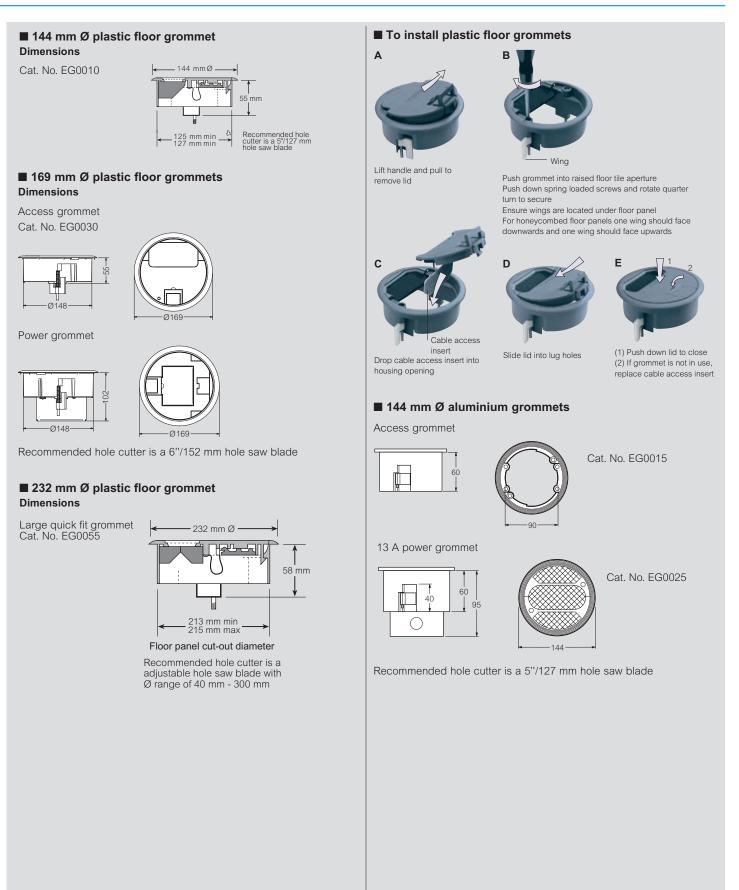


floor grommets access / power and data



floor grommets

technical information





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
- Outgoing connections: flexible interlink or end cap with ST or GST options

NEW Intersoc On-desk

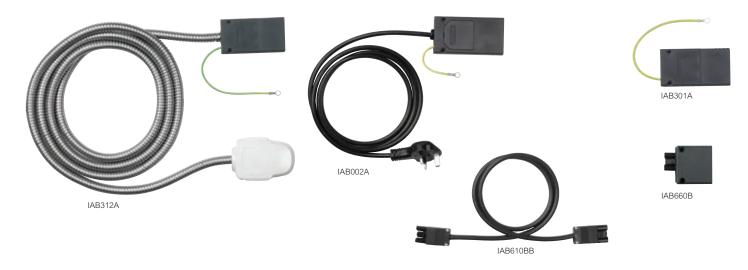
Personal power and data system







electrical supply



لم Dimensions and technical information p. 42-45

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 + AMD 3 : 2015 for high integrity earthing (section 543·7)

Pack	Cat. Nos.	32 A pre-wired feed modules	Pack
		Standard earth tap-offs (E24 - White tap-off)	
1	IAB311A	3 m unfused metal tap-off Cat. No. DP1332	1
1		5 m unfused metal tap-off Cat. No. DP1532	1 1
1 1		3 m 13 A fused 543.7 metal tap-off Cat. No. DP1327 5 m 13 A fused 543.7 metal tap-off Cat. No. DP1527	
I	IADSTUA		
		Low noise / clean earth tap-offs (E25 - Green tap-off)	1
1	IAC311A	3 m unfused metal tap-off Cat. No. JP2332	
1		5 m unfused metal tap-off Cat. No. JP2532	
1 1		3 m 13 A fused 543.7 metal tap-off Cat. No. JP2327 5 m 13 A fused 543.7 metal tap-off Cat. No. JP2527	
1	IACS IOA		1
		Auxiliary earth tap-offs (E28 - Red tap-off)	1
1 1		3 m unfused metal tap-off Cat. No. YP5332 5 m unfused metal tap-off Cat. No. YP5532	
1		3 m 13 A fused 543.7 metal tap-off Cat. No. YP5327	
1		5 m 13 A fused 543.7 metal tap-off Cat. No. YP5527	
			1 1
		32 A re-wirable feed modules	1
1		Standard earth (for flexible conduit)	
1	IAC301A	Low noise (for flexible conduit)	1
		32 A feed units with in-built Neutrik	1 1
		connectors	1
1	IAB301E	Standard earth	
1		Low noise	
		32 A tap-offs pre-wired to Neutrik connectors	
		Standard earth tap-offs (E24)	
1	IAR311E	3 m unfused metal tap-off Cat. No. DP1332	
1		5 m unfused metal tap-off Cat. No. DP1532	
1	IAB315E	3 m 13 A fused 543.7 metal tap-off Cat. No. DP1327	
1	IAB316E	5 m 13 A fused 543·7 metal tap-off Cat. No. DP1527	
		Low noise / clean earth tap-offs (E25)	
1	IAC311E	3 m unfused metal tap-off Cat. No. JP2332	
1 1		5 m unfused metal tap-off Cat. No. JP2532 3 m 13 A fused 543.7 metal tap-off Cat. No. JP2327	
1		5 m 13 A fused 543·7 metal tap-off Cat. No. JP2527	
		•	

Pack	Cat. Nos.	16 A feed modules pre-wired to 13 A fused plug
1 1 1	IAB003A	With 2 m 1.5 mm ² cable With 3 m 1.5 mm ² cable With 5 m 1.5 mm ² cable
		16 A rewirable feed modules
1	IAB201A	Rewirable feed module (for cable)
		16 A feed units with in-built GST connector
1 1		Compact feed module with male GST connector Feed module with male GST and earth bond lead
		16 A pre-wired connection leads
		13 A fused plug pre-wired to GST connector
1 1 1	IAB003B	With 2 m 1.5 mm ² cable With 3 m 1.5 mm ² cable With 5 m 1.5 mm ² cable
		GST to GST connection leads
1 1 1	IAB620BB	1 m length 2 m length 3 m length

protection, BS sockets, end caps and interlinks





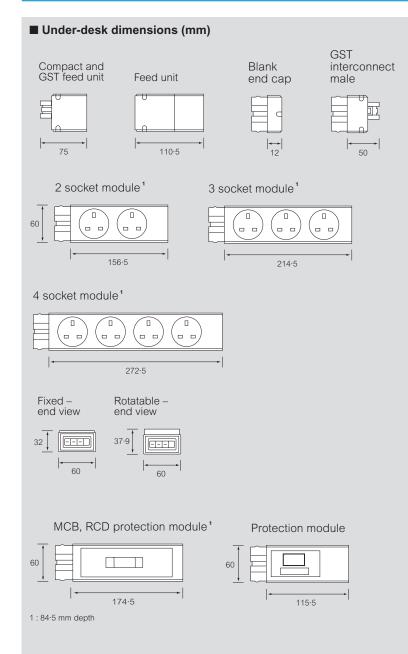
Dimensions and technical information p. 42-45

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

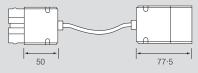
					,
Pack	Cat. Nos.	Protection and switching modules	Pack	Cat. Nos.	Socket modules – low noise / clean earth (green sockets) (continued)
1		With 13 A fuse With 13 A fuse and sw/neon			3 gang unfused
1		With 13 A fuse and neon			6 6
1	IAB404A	32 A max. single isolation module	1 1		Fixed sockets Rotatable sockets
1		With 30 mA RCD	I	IAC JUJI	
1	IAB408A	With neon indicator With 16 A MCB			3 gang individually fused
1	IAB430A	With 20 A MCB	1		3.15 A – fixed sockets
1	IAB440A	With 32 A MCB	1	IAC533R	3.15 A – rotatable sockets
1		With 16 A RCBO			4 gang unfused
1		With 20 A RCBO With 32 A RCBO	1	IAC504E	Fixed sockets
1		WILL SZ A RODO	1		Rotatable sockets
		Socket modules – standard (grey sockets)			4 gang individually fused
		2 gang unfused	1	IAC534F	3.15 A – fixed sockets
4		Fixed sockets	1	IAC534R	3.15 A – rotatable
1		Rotatable sockets			
·	II (BOOLIY				End cap
		2 gang individually fused	1	IA7001A	Blank end cap
1		3.15 A – fixed sockets		11 1200 11 1	Blank ond oup
1	IAB532R	3.15 A – rotatable sockets			Intersoc to Intersoc pre-wired interconnection
		3 gang unfused			
1	IAB503F	Fixed sockets			16 A
1	IAB503R	Rotatable sockets	1	IAB603A	0.3 m length
		3 gang individually fused	1 1		0·5 m length 1 m length
1	IAR533E	3·15 A – fixed sockets	1	IAB620A	2 m length
1	IAB533R	3.15 A – rotatable sockets	1	IAB630A	3 m length
		4 gang unfused	1	IAB650A	5 m length
					32 A
1		Fixed sockets Rotatable sockets	1	IAB703A	0·3 m length
'			1	IAB705A	0.5 m length
		4 gang individually fused	1	IAB710A	1 m length
1		3.15 A – fixed sockets	1 1	IAB720A	2 m length 3 m length
1	IAB534R	3.15 A – rotatable sockets	1	IAB750A	5 m length
		On sheet we shall a subscription of a local standard			ő
		Socket modules – low noise / clean earth (green sockets)			Power out end caps 16 A
		2 gang unfused			Without flex
4		Fixed sockets	1	IAB600B	End cap with female GST connector
1		Rotatable sockets	1	IAB600C	End cap with female ST connector
		2 gang individually fused			With flex to female GST connector
			1	IAB610B	1 m length
1		3·15 A – fixed sockets 3·15 A – rotatable sockets	1	IAB620B	2 m length
	#10002IT		1	IAB630B	3 m length



technical information



Interconnection



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Testing and accreditation





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 Rotat				
0·8 mΩ	0·9 mΩ			
1·6 mΩ	1·7 mΩ			
	Fixed 0·8 mΩ			

Volt drop Live and neutral

2 socket module	1·5 m V/A	
4 socket module	3·0 m V/A	
Protection module	4·0 m V/A	
	(depending on device)	
In-feeds :		
16 A	4·0 m V/A	
+1.5 mm ²	29 m V/A/m	
32 A	2·0 m V/A	
+4 mm ²	11 m V/A/m	
Interconnections :		
16 A/32 A	2·0 m V/A	
+1.5 mm ²	29 m V/A/m	
+4 mm ²	11 m V/A/m	

Earth fault loop impedance

2 socket module	1·5 mΩ
4 socket module	3·0 mΩ
Protection module	4·0 mΩ
	(depending on device)
In-feeds :	
16 A	2·0 mΩ
+1.5 mm ²	29 mΩ/m
32 A	2·0 mΩ
+4 mm ²	11 mΩ/m
Interconnections :	
16 A/32 A	4·0 m V/A
+1.5 mm ²	29 mΩ/m
+4 mm ²	11 mΩ/m

Mechanical data

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

British Standards

BS 6396 : 2008 Electrical Systems in Office Furniture and Educational Furniture Specification

BS 7671 : 2008 incorporating amendment No. 3 : 2015. 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 The Health and Safety Executive states that installations which conform to the standards laid down in BS 7671 : 2008 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 mm² conductor (543-7.1-103 (ii)). Intersoc achieves this when wired in accordance with the installation sheets by providing mechanically protected 5 mm² protective conductors within the product

Material specification

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

1 : European grades with nearest British Standard shown in brackets

All dimensions (mm) are nominal

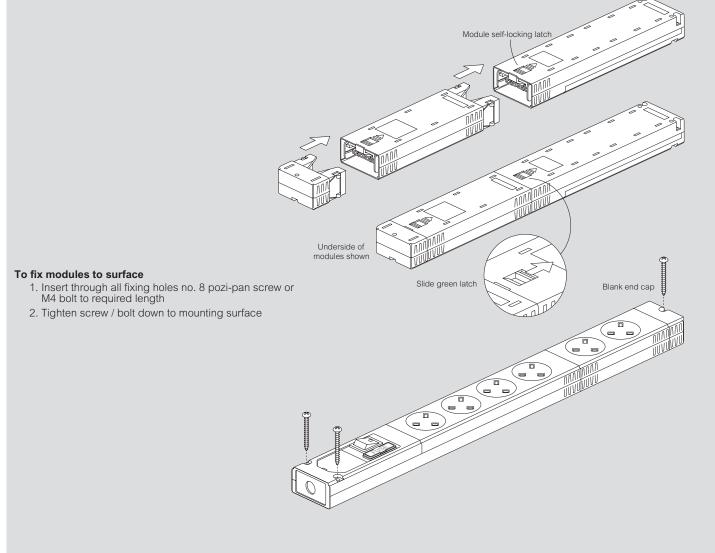


installation and configuration

Installation

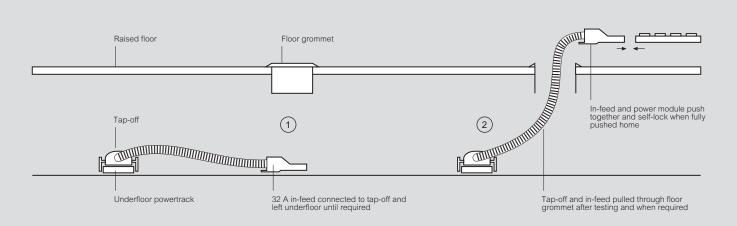
To connect and disconnect Intersoc modules

- 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



Product configuration

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





INTERSOC ON-DESK power and data for modern workspaces

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

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



Tailored to your requirements

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



RAPID USB CHARGING

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



HIGH PERFORMANCE DATA

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



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



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



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

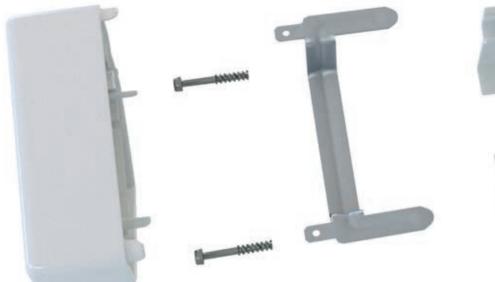
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RELIABLE DESKTOP CONNECTIVITY

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

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

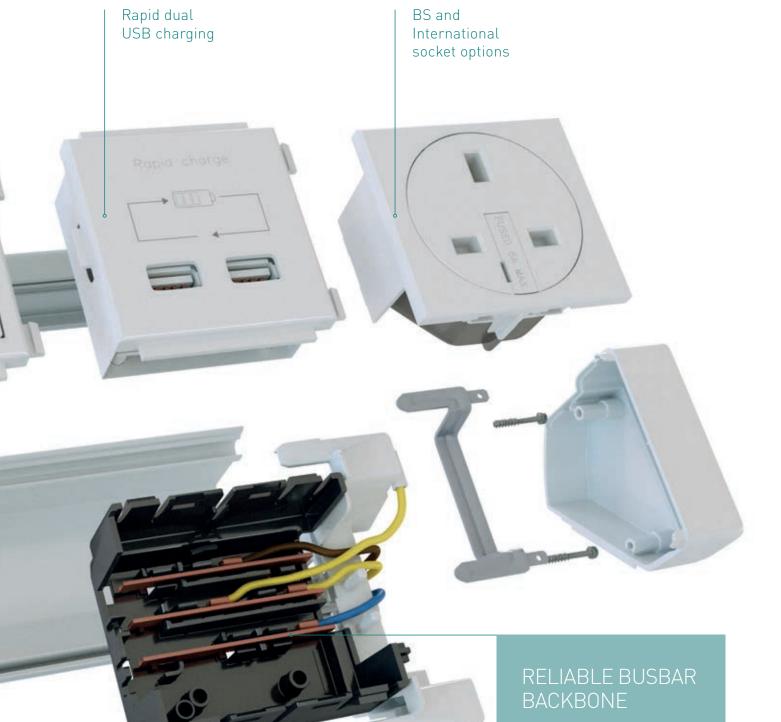
CAT 5e / 6 / 6A RJ45 outlets







A Group brand



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



Intersoc on-desk modules

6.6.6	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.
2 x sockets individually fused at 3·15 A	PA3320AA	PB1320AA	PD1320AA
3 x sockets individually fused at 3·15 A	PA3330AA	PB1330AA	PD1330AA
4 x sockets individually fused at 3.15 A	PA3340AA	PB1340AA	PD1340AA
2 x sockets individually fused at 3·15 A plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet	PA3320AB	PB1320AB	PD1320AB
2 x sockets individually fused at 3·15 A plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets	PA3320AC	PB1320AC	PD1320AC
2 x sockets individually fused at 3·15 A plus 1 x rear pluggable data USB outlet	PA3320AD	PB1320AD	PD1320AD
2 x sockets individually fused at 3·15 A plus 2 x rear pluggable data USB outlets	PA3320AE	PB1320AE	PD1320AE
2 x sockets individually fused at 3·15 A plus 1 x CAT 6A RJ45 outlet with 3 m data lead	PA3320AF	PB1320AF	PD1320AF
2 x sockets individually fused at 3.15 A plus 2 x CAT 6A RJ45 outlets with 3 m data leads	PA3320AG	PB1320AG	PD1320AG
2 x sockets individually fused at 3.15 A plus carrier to accept 1 x Euro Module (25 x 50 mm)	PA3320AK	PB1320AK	PD1320AK
2 x sockets individually fused at 3.15 A plus carrier to accept 2 x Euro Modules (50 x 50 mm)	PA3320AL	PB1320AL	PD1320AL
3 x sockets individually fused at 3·15 A plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet	PA3330AB	PB1330AB	PD1330AB
3 x sockets individually fused at 3·15 A plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets	PA3330AC	PB1330AC	PD1330AC
3 x sockets individually fused at 3·15 A plus 1 x rear pluggable data USB outlet	PA3330AD	PB1330AD	PD1330AD
3 x sockets individually fused at 3·15 A plus 2 x rear pluggable data USB outlets	PA3330AE	PB1330AE	PD1330AE

Fixings		
Description	Cat. No.	
Desk clamp	0546 99	

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Intersoc on-desk modules

with twin outlet USB charger

		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.
	1 x unfused socket plus twin outlet USB charger	PA3012AA	PB1012AA	PD1012AA
	2 x sockets individually fused at 3·15 A plus twin outlet USB charger	PA3322AA	PB1322AA	PD1322AA
FOGO	3 x sockets individually fused at 3·15 A plus twin outlet USB charger	PA3332AA	PB1332AA	PD1332AA
	1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet	PA3012AB	PB1012AB	PD1012AB
	1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets	PA3012AC	PB1012AC	PD1012AC
	1 x unfused socket, twin outlet USB charger plus 1 x rear pluggable data USB outlet	PA3012AD	PB1012AD	PD1012AD
	1 x unfused socket, twin outlet USB charger plus 2 x rear pluggable data USB outlets	PA3012AE	PB1012AE	PD1012AE
	2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 1 x rear pluggable CAT 5e / CAT 6 RJ45 outlet	PA3322AB	PB1322AB	PD1322AB
	2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 2 x rear pluggable CAT 5e / CAT 6 RJ45 outlets	PA3322AC	PB1322AC	PD1322AC
	2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 1 x rear pluggable data USB outlet	PA3322AD	PB1322AD	PD1322AD
	2 x sockets individually fused at 3·15 A, twin outlet USB charger plus 2 x rear pluggable data USB outlets	PA3322AE	PB1322AE	PD1322AE
	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	PA3322AF	PB1322AF	PD1322AF
	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	PA3322AG	PB1322AG	PD1322AG
	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)	PA3322AK	PB1322AK	PD1322AK
	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)	PA3322AL	PB1322AL	PD1322AL

Notes:

Other options are available to special order. Contact us on +44 (0) 345 605 4333

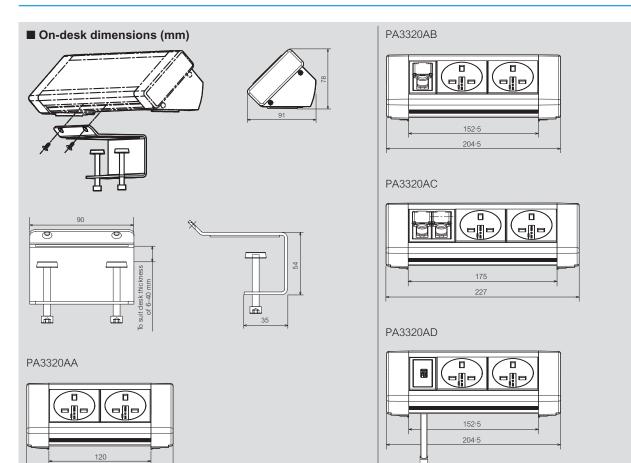
CAT 5e / CAT 6 outlets have a rear facing RJ45 that will accept either CAT 5e or CAT 6 data cabling (no data cabling is included with the product) CAT 6A outlets are supplied with 3 m pre-wired lead and performance certificate

The data USB outlets have a short flying lead at the rear for USB connection to the PC (no additional data cabling is included with the product) Units supplied with carriers to accept Euro Modules will be supplied with apertures at the rear for the passing of data or AV cables

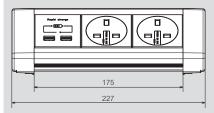


Intersoc on-desk modules

technical information

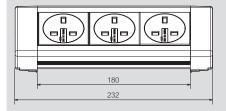


PA3322AA

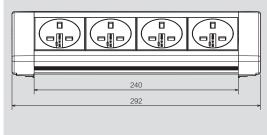


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PA3330AA

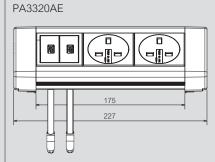


PA3340AA

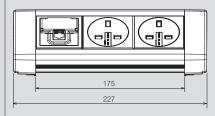


All dimensions (mm) are nominal

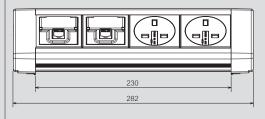
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PA3320AF

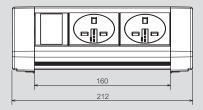


PA3320AG

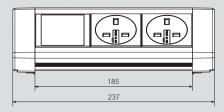


On-desk dimensions (mm) (continued)

PA3320AK



PA3320AL



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 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

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

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

BS 6396 : 2008 requires RCD protection for electrical sockets

Material specification

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

USB charger module specification

230 V (AC)
1·3 mA
0·3 W
50 Hz
+5.0 V ± 0.25 (DC)
3·1 A
15 W (max.)
3.8 A (max.)
2 x USB Type A sockets
2·1 A (max.)



BUSCOM TRUNKING a unique power & data backbone

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



THE HEART OF YOUR LIGHTING CONTROL SYSTEM

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

MODULAR. FLEXIBLE. SIMPLE.

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

BUSCOM ADDS A NEW DIMENSION TO LIGHTING BUSBAR

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

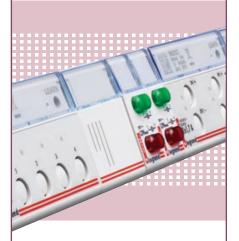
This unique system for distributing lighting control signals delivers unrivalled flexibility, regardless of the location of the intelligence... Power and communications within a single trunking system

Clegrand

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

THE INTELLIGENT SOLUTION

INTELLIGENCE IN THE PANEL



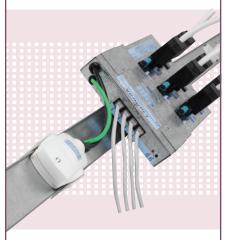
Lighting control modules located in a central cabinet are connected to the Buscom system via communication circuits that terminate in the feed unit. Control signals are then distributed along the trunking run and made available at any tap-off outlet.

INTELLIGENCE IN THE BUSBAR



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

INTELLIGENCE IN THE LCU



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

Visit www.legrand.co.uk for more information



Electrak[®] 30 2P + E buscom trunking

power and communication distribution

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CCA2145C		Here Here Here Here Here Here Here Here			
	CCA14RFC	11 7.			
- 11 -	CCA14LFC	Service and	1		



Dimensions and technical information p. 60-65

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

Pack	Cat. Nos.	Electrak 30 2P + E with comms	Pack	Cat. Nos.	Electrak 30 2 P + E without comms
		2P + E buscom trunking system with integral communications bus circuit Socket outlets colour coded white			2P + E busbar (power only) trunking system Socket outlets colour coded white
		Trunking lengths			Trunking lengths
1 1	25 A BBA3145C BBA2145C	Trunking lengths push fit into each other, and feed units. Trunking lengths can be suspended using the various bracket options Length Tap-off (kg) 3 6 4.47 2 4 3.27	1 1	25 A BBA3145 BBA2145	Trunking lengths push fit into each other, and feed units or flexible lengths. Trunking lengths can be surface mounted suspended using the various bracket options Length Tap-off Weight (m) outlets (kg) 3 6 4.47 2 4 3.27
1 1	40 A CCA3145C CCA2145C	3 6 4.57 ↓ 2 4 3.36 ▶	1 1	40 A CCA3145 CCA2145	3 6 4.57 ↓ L 2 4 3.36 PE
		Feed units (with comms)			Feed units
		Feed units come with 2 x 25 mm Ø and 2 x 16 mm Ø cable entry holes and single screw cable terminals for power and data Left feed units are supplied with right end stop Right feed units are supplied with left end stop			(without comms – power only) Feed units come with 2 x 25 mm Ø cable entry holes and single screw cable terminals Left feed units are supplied with right end stop Right feed units are supplied with left end stop
1 1 1 1	BBA14LFC BBA14RFC CCA14LFC CCA14RFC	Suspended Weight (kg) 25 A left 1.22 25 A right 1.49 40 A left 1.27 40 A right 1.49	1 1 1 1	BBA14LF BBA14RF CCA14LF CCA14RF	Suspended Weight (kg) 25 A left 1·22 25 A right 1·49 40 A left 1·27 40 A right 1·49

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

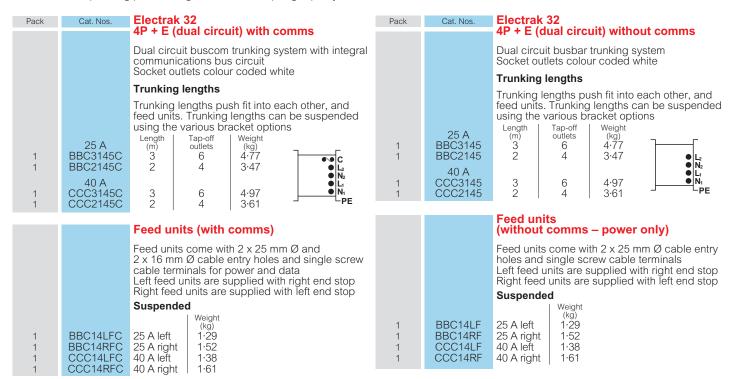
power and communication distribution

CCC3145C		鐵	個 0
CCC2145C			
CCC14RFC	11		
CCC14LFC			

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Dimensions and technical information p. 60-65

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





Electrak[®] buscom trunking tap-offs

power and communication distribution









DDK4F



Dimensions and technical information **p. 60-65**

Pack	Cat. Nos.	Tap-off units with comms	Pack
		Tap-offs with comms can only be plugged into outlets that have the comms facility	
		16 A unfused tap-off units	
		Pre-wired tap-off units to pick up L1+N1 or L2+N2, colour coded white	
		Length Fixed Weight (m) polarity (kg)	
1	DDE43C		1
1	DDE45C DDJ43C	5 0.6	1 1
1	DDJ45C	5 L2 + N2 0.6	1
		13 A fused tap-off units	
		Pre-wired tap-off units to pick up L1+N1 or L2+N2, supplied with BS 1362 fuse, colour coded white	
		Length Fixed Weight (m) polarity (kg)	
1	DDE43FC	3 1 11 0.5	1
1	DDE45FC DDJ43FC	5 L1+N1 0.6 3 L2+N2 0.6	1
1	DDJ45FC	5 L2 + N2 0.6	1

Pack	Cat. Nos.	Tạp-off units					
		without comms (power only)					
		Power only tap-offs can plug into any tap-off outlet					
		16 A unfused tap-off units					
		Pre-wired tap-off units to pick up L1+N1 or L2+N2, colour coded white					
		Length Fixed Weight (m) polarity (kg)					
1	DDE43	3 11 11 0.5					
1	DDE45	5 0.6					
1 1	DDJ43 DDJ45	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
		13 A fused tap-off units					
		Pre-wired tap-off units to pick up L1+N1 or L2+N2, supplied with BS 1362 fuse, colour coded white Length Fixed Weight (m) Fixed (kg)					
1 1	DDE43F DDE45F	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
1	DDJ43F DDJ45F	3 3 5 L2 + N2 0.5 0.6					
		Tap-off units without comms – rewirable					
		16 A unfused tap-off units					
	DDF4	Rewirable tap-off units to pick up required circuit, colour coded white, can plug into any tap-off outlet Fixed Weight polarity (kg) 11 + N1 0-14					
1 1	DDF4 DDK4	L1 + N1 0·14 L2 + N2 0·14					

13 A fused tap-off units

Rewirable tap-off units to pick up required circuit, supplied with BS 1362 fuse, colour coded white, can plug into any tap-off outlet

white, car	ı plug in
Fixed	Weight
polarity	(kg)
L1 + N1	0.14
L2 + N2	0.14

DDF4F DDK4F

Electrak[®] buscom trunking accessories fixings and ancillary items



Dimensions and technical information **p. 60-65**

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

Pack	Cat. Nos.	Fixings	Pack	Cat. Nos.	Ancillary items
1	EEA308	Trunking suspended fixing bracket	1	EEC356	2 m empty length for adjusting the length at the
1	EEA312	Trunking suspended fixing bracket c/w cable duct stirrup. Used when running cable duct on top of buscom trunking	1	EEC364	end of a run (to be cut) Joint sleeve is used if load is hung off trunking joint or near when joint is centre of a fixing span
1	EEA324	Luminaire suspension fixing bracket	1	EEC366	Left hand end stop spare
1	EEA328	Luminaire 45 mm edge suspension fixing bracket (clip on)	1	EEC368	Right hand end stop spare
1	EEB340	Open hook luminaire suspended bracket			
1	EEB344	Closed ring on luminaire			
1	EEC348	Cable duct 3 m long x 50 mm(w) x 13 mm(h)			
1	EEC357	Joint bracket cable duct			
1	EEC352	Cable duct fixing bracket			



Electrak[®] buscom trunking

technical information



ASTA approved to BS EN 60439-2 and IEC 439-2 Designed to meet the requirements of BS EN 61534-21 : 2014 Manufactured within an approved ISO 9001 : 2008 and ISO 14001 :2004 facility Assessed Quality Assurance Certificate No. 10679

Assessed Quality Assurance Certificate No. 10679 Electrak Buscom fully complies with the requirements of BS 7671 :2008 + AMD 3 : 2015 (IET Wiring Regulations)

Buscom trunking options



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

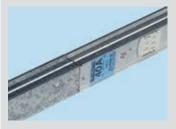
Communication bus

Push fit connection keeps installation costs to a minimum

Track lengths simply push fit together







Feed units

25 A rated - max. conductor size 6 mm² 40 A rated - max. conductor size 16 mm² IP 4X galvanised steel



2 pole + earth + comms Comms bus Max. conductor size 1.5 mm² Red + Black -

Electrical test data	25 A	40 A	UOM
Derating factor for Electrak 32 single sided	_	0.8	_
Rated operational voltage (Ue)	230/400	230/400	$V\sim$
Rated insulation voltage (Ui)	500	500	$V\sim$
Frequency (f)	50/60	50/60	Hz
Rated impulse withstand voltage	4.0	4.0	KV
Busbar resistance (R ₂₀)	3.9	2.7	m Ω /m
Resistance (R ₁)	4.2	3.0	m Ω /m
Impedance (Z ₁)	4.8	3.4	m Ω /m
Reactance (X ₁)	2.5	1.6	m Ω /m
Protective conductor	1.5	1.5	m Ω /m
		1	I
Volt drops	25 A	40 A	UOM
Live and neutral : busbars	9.0	6.0	mV/A/m
(R1+R2) Feed unit	3.0	2.4	mV/A

Live and neutral : busbars	9.0	6.0	mV/A/m
(R ₁ +R ₂) Feed unit	3.0	2.4	mV/A
Tap-off 0·8 m	22.0	22.0	mV/A
Tap-off 2·0 m	52.0	52.0	mV/A

Earth fault loop	25 A	40 A	UOM	
Impedance : busbar	4.5	3.0	mΩ/m	
Earth housing	1.5	1.5	m Ω /m	
Feed unit	2.4	2.4	mΩ	
Tap-off 0.8m	23.0	23.0	mΩ	
Tap-off 2·0m	53·0	53.0	mΩ	
Rated conditional short-circuit current (Icc)	16.0	16.0	KA	
Rated short time withstand current (Icw) at 1 sec	0.65	1.0	KA	
Rated peak short-circuit current (lpk)	0.975	1.5	KA	
Ambient temperature	35.0	35.0	°C	

Mechanical data	25 A	40 A	UOM
Number of conductors	2-6	2-6	_
Busbar conductor cross-sectional area	4.0	6.0	mm ²
Cable terminal capacity	6.0	16.0	mm ²
Cable terminal capacity bus	1.5	1.5	mm ²
Tap-off cable 16 A	1.5	1.5	mm ²
Tap-off cable 13 A fused	1.5	1.5	mm ²
Tap-off entry	16.0	16.0	mmØ
Feed unit entry holes power	25.0	25.0	mmØ
Feed unit entry holes bus	16.0	16.0	mmØ
IP rating	4 X	4 X	-

Direct protection by enclosure. Indirect protection by protective circuit

All dimensions (mm) are nominal

la legrand

Electrak[®] buscom trunking

technical data

Communication control circuit					
Туре	Bus cable (LSOH)				
Construction	Sheathed 0.5 mm ² copper twisted pair				
Insulation - conductor	Flame retardant low emission HCL				
Sheath	LSOH material				
Rated insulation voltage (Ui) (between power circuit and bus)	500 V				
Max. bus operating voltage	50 V				
Max. bus operating current	0.65 A				
Max. conductor resistance (@20°C)	73·2 Ω/km				
Max. mutual capacitance	100 nf/km				
Material specifications					
Buscom trunking housing	Galvanised steel				
Busbars	High conductivity copper				
Busbar insulator	Flame retardant LSOH to BS 7211				
Trunking connector / tap-off entry box / cable connector	Flame retardant polycarbonate				
Tap-off housing	Flame retardant polycarbonate				
Trunking connector blades / tap-off blades	Copper				
Feed unit IP 4X	Galvanised steel				
Feed unit IP 54	ABS				
Flexible length conduit	Flame retardant LSOH nylon				
Feed unit terminals / earth block	Brass				
Brackets	Galvanised steel				
13 A tap-off, fuse	To BS 1362, ASTA approved				

Durability

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

Earth fault loop impedance BS 7671 : 2008 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 Buscom for calculating the earth fault loop impedance are shown in the electrical test data table, see opposite Buscom trunking rating in ambient temperatures

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

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

Buscom trunking mechanical loading

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

Maximum loading for suspended buscom trunking

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

Notes

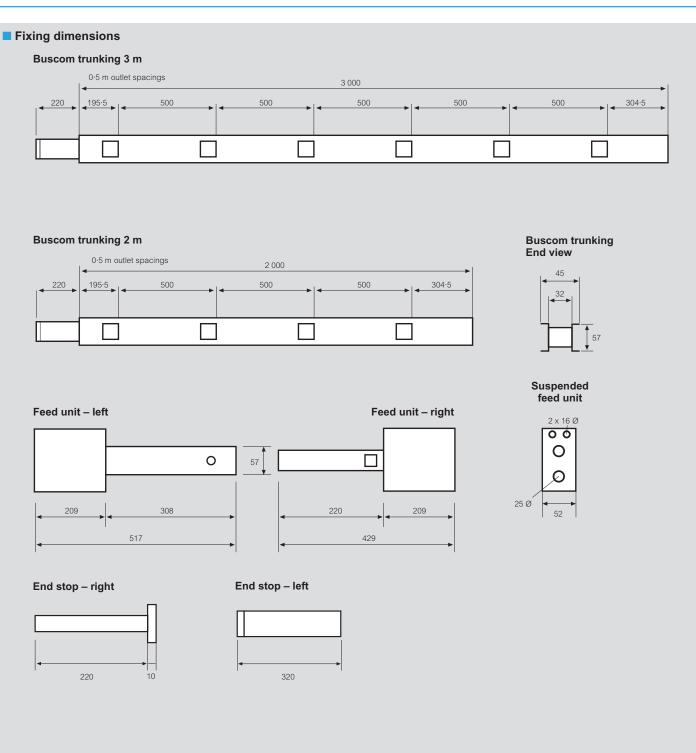
1. Where trunking joints occur in the middle of the suspension span, and weight is to be suspended from that point, it is recommened to use a strenghting bracket EEC364 over the joint to stop deflection

2. If the load requirements exceed the above figures, please contact us on +44 (0) 345 600 6266 For design information and technical specification, please contact us on +44 (0) 345 600 6266 Suspension rods and fixings should be of suitable size to carry the weight of both the track and suspended load



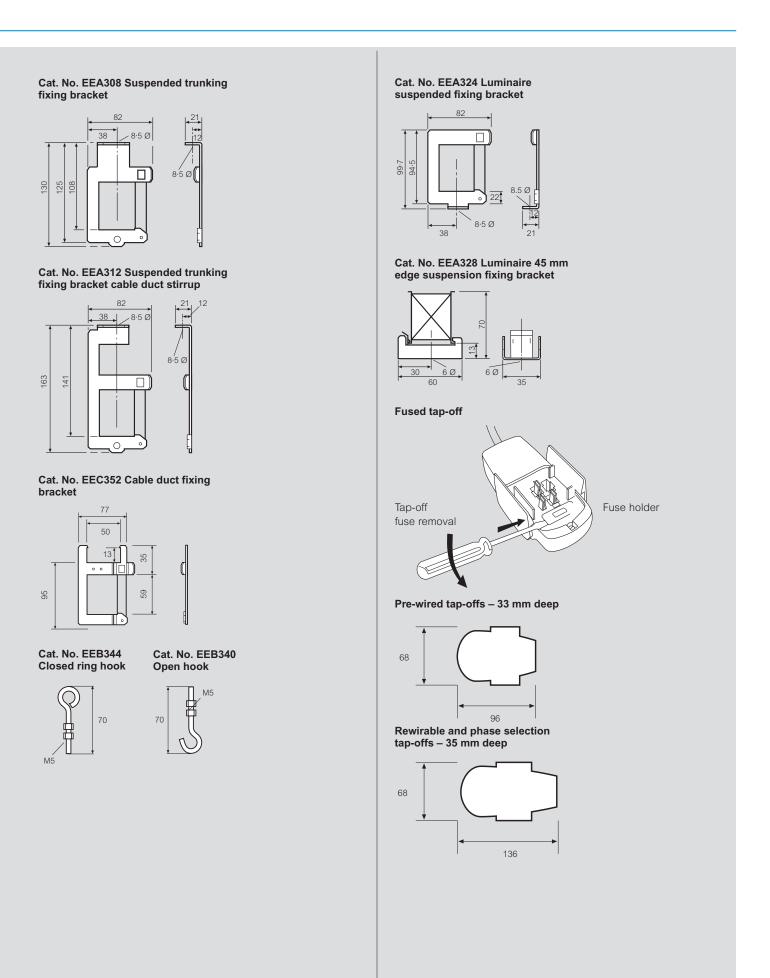
Electrak[®] buscom trunking

dimensions



All dimensions (mm) are nominal

A Group brand





Electrak[®] buscom trunking

installation

Design and installation

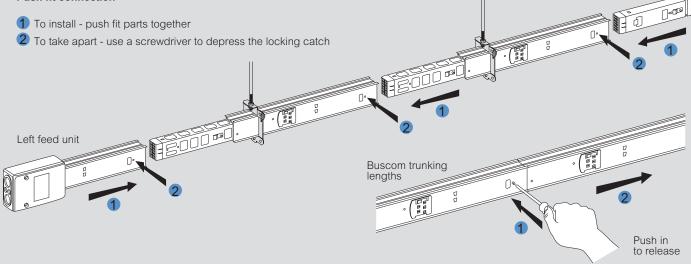
Electrak Buscom trunking system comprises continuous lengths of galvanised steel trunking available in 2 m and 3 m lengths with integral connectors and regular tap-off outlets

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

The trunking system is supplied with IP 4X ingress protection, fully factory tested and ASTA approved to BS EN 60439-2 : 2008 and is designed to meet the requirements of BS EN 61534-21 : 2014

End stop

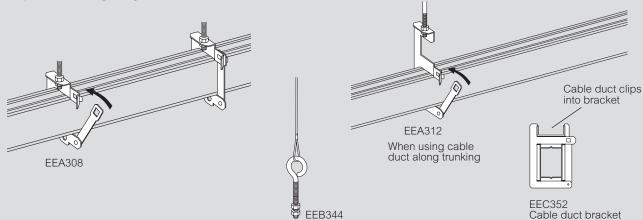
Push fit connection

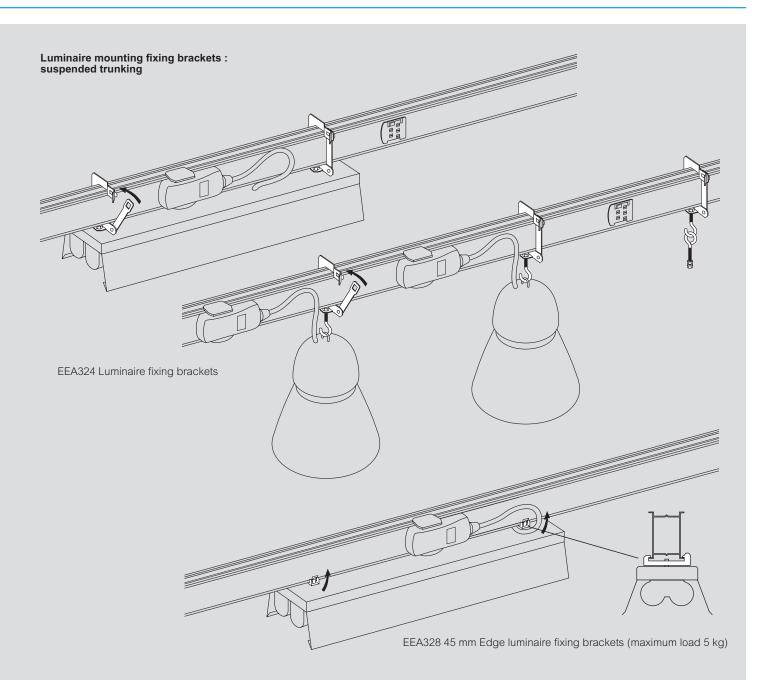


Considerations before installation

Calculate the distance between fixing brackets - the maximum fixing distance should not exceed 4 m. If loads are to be hung, please consult loading charts on page 39. The maximum buscom trunking weight is 2 kg/m When fixing brackets to drop rods or surfaces, see mounting details below

Suspended trunking fixing brackets





CONTACT DETAILS

Quotations and Technical Support:

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Tel: 01 295 9673 Fax: 01 295 4671 E-mail: powersales.uk@legrand.co.uk



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