

Power Distribution

For offices and commercial spaces

Welcome

CMD Ltd design and manufacture innovative, quality power distribution systems that are used in some of the most high-profile commercial office, retail and hospitality spaces.

Founded in 1984 and based at our Yorkshire headquarters, we are a true British manufacturer. Our leading range of power solutions begins with our powertrack or power hub systems that connects easily together.

We pride ourselves on being able to offer a full range of connectivity from the powertrack and power hub systems to floor boxes or access grommets that bring the power to the user via a range of under desk, in desk, or on desk power modules.

With an unrivalled technical specification team and a focused commitment to customer service, CMD are your ideal partner for all your commercial office power requirements.

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All power distribution products are supplied with a 5-year warranty for complete peace of mind.

Product images and part numbers are for illustration purposes only and may be subject to change at any time. Dimensions and cable lengths are approximate and for guidance only.

Introduction

Commitment to Quality and Service

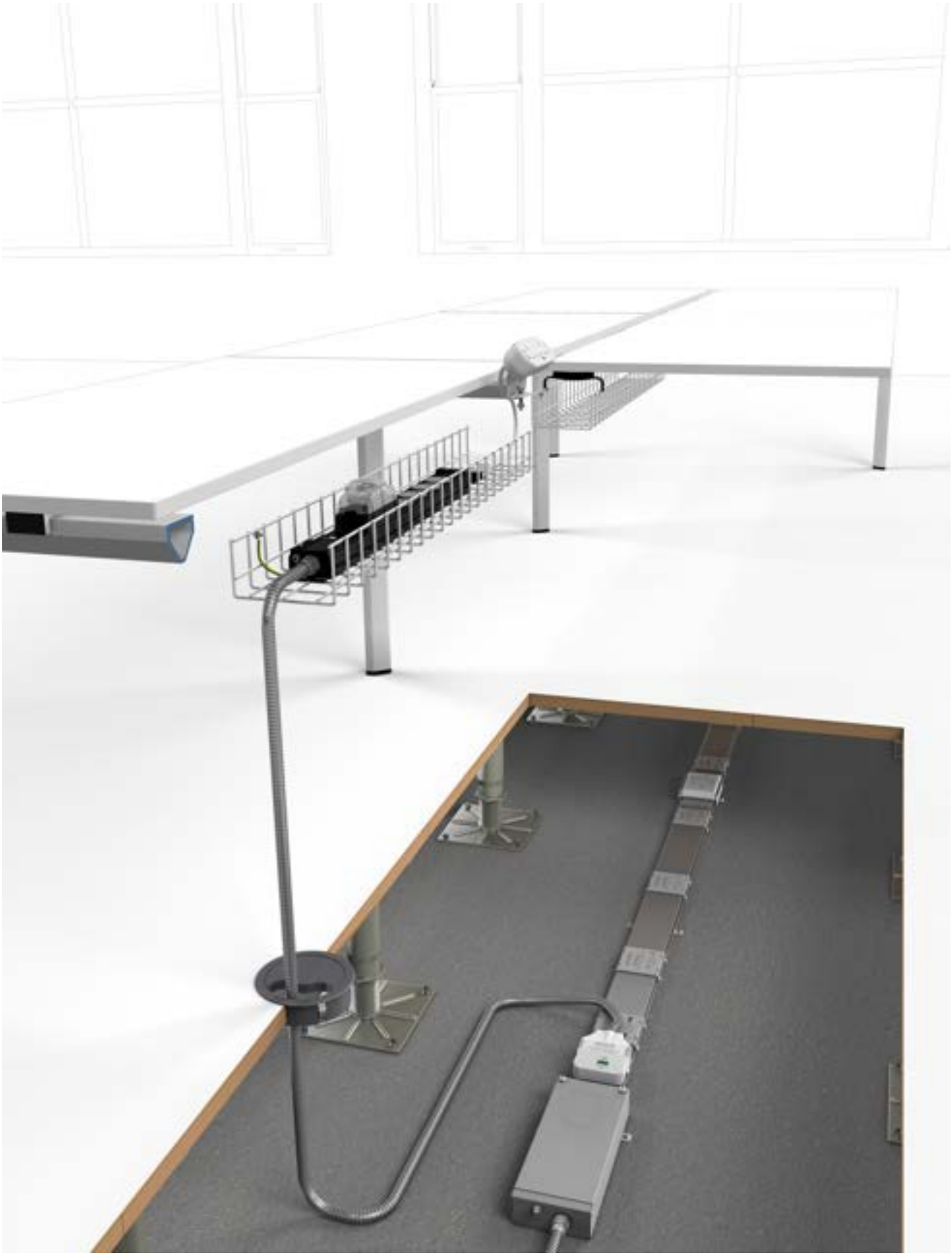
CMD Ltd is committed to promoting corporate and social responsibility. We manage business ethically, honestly and with integrity. Our management systems and procedures are continually improving and compliant with the requirements of ISO 14001 Environmental Management System and ISO 9001 Quality Management System.

Technical and Regulatory Guidance

We have dedicated internal and external technical specification teams on-hand to support you through every step of your project. Our commonly ordered products are available on Luckins and we have compiled a set of guidance statements that can be used when specifying your electrical system using CMD products. The statements listed below can be found at the back of this catalogue.

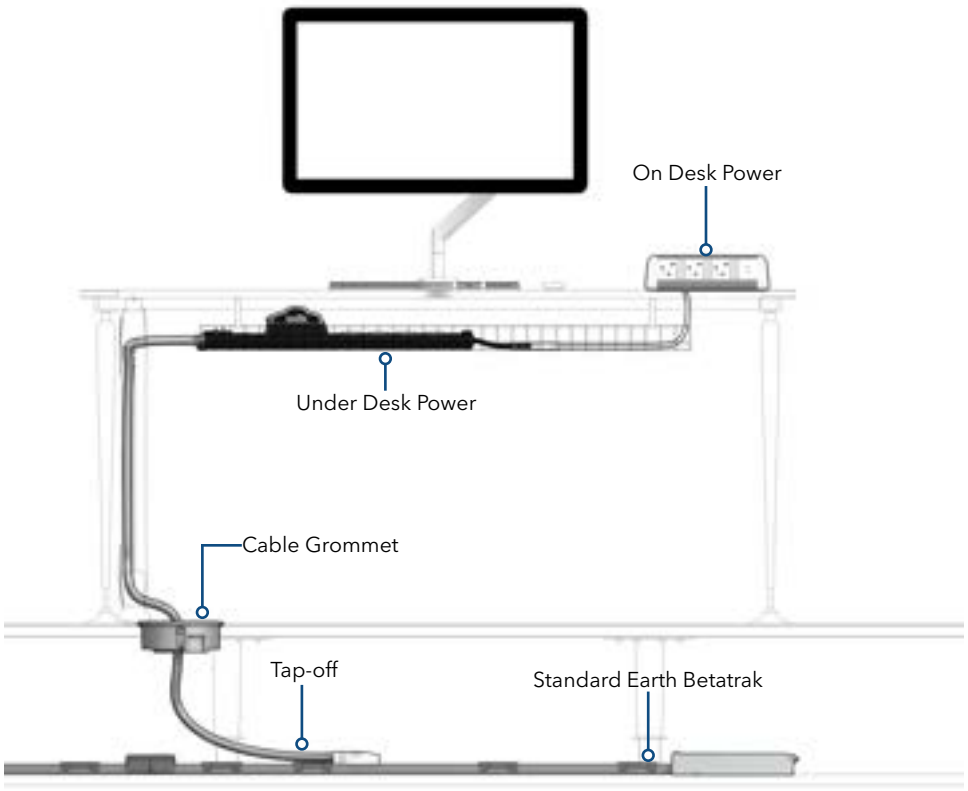
- **3m Tap-off Regulation.**
- **RCD Compliance.**
- **BS EN 61535 Installation Couplers Intended for Permanent Connection in Fixed Installations.**
- **BS 5733 General Requirements for Electrical Accessories.**
- **BS 6396 Understanding the Requirements for Electrical Systems in Furniture.**
- **Power Module Troubleshooting.**
- **Electrical Product Testing.**
- **ISO 14001 Environmental Management System and ISO 9001 Quality Management System.**

Connecting Power, People and Organisations

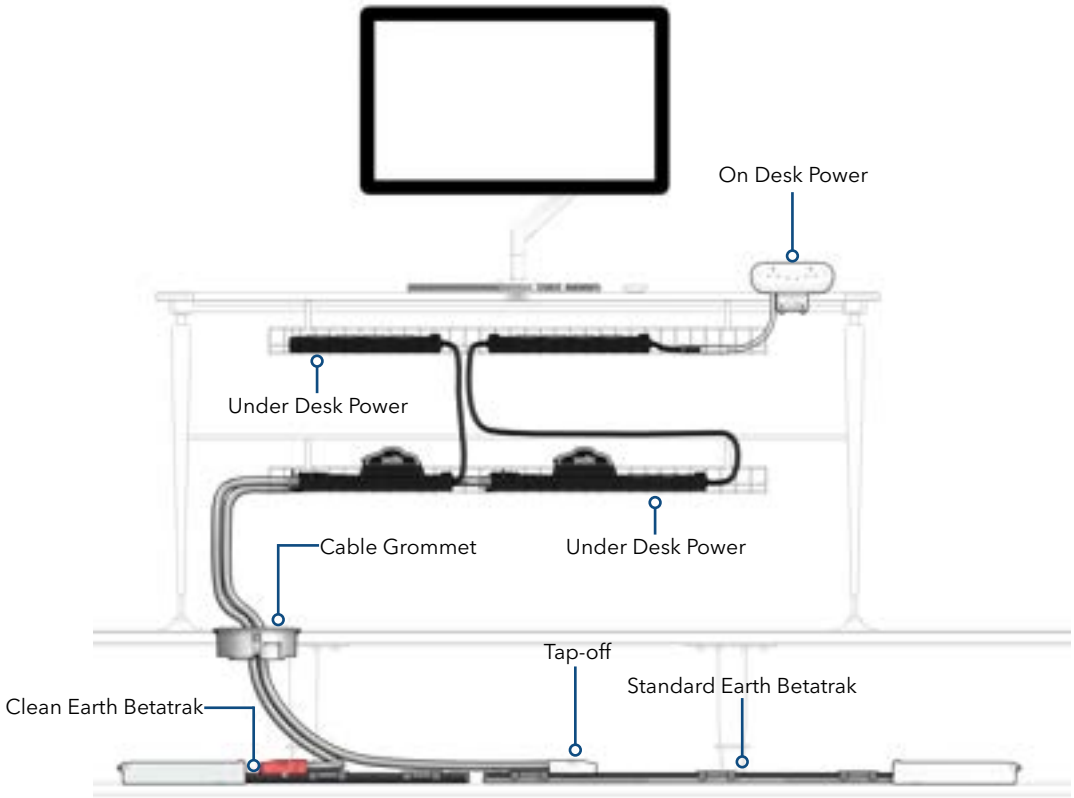


Workstation Schematics

Workstation Powered by CMD 63A Betatrak System

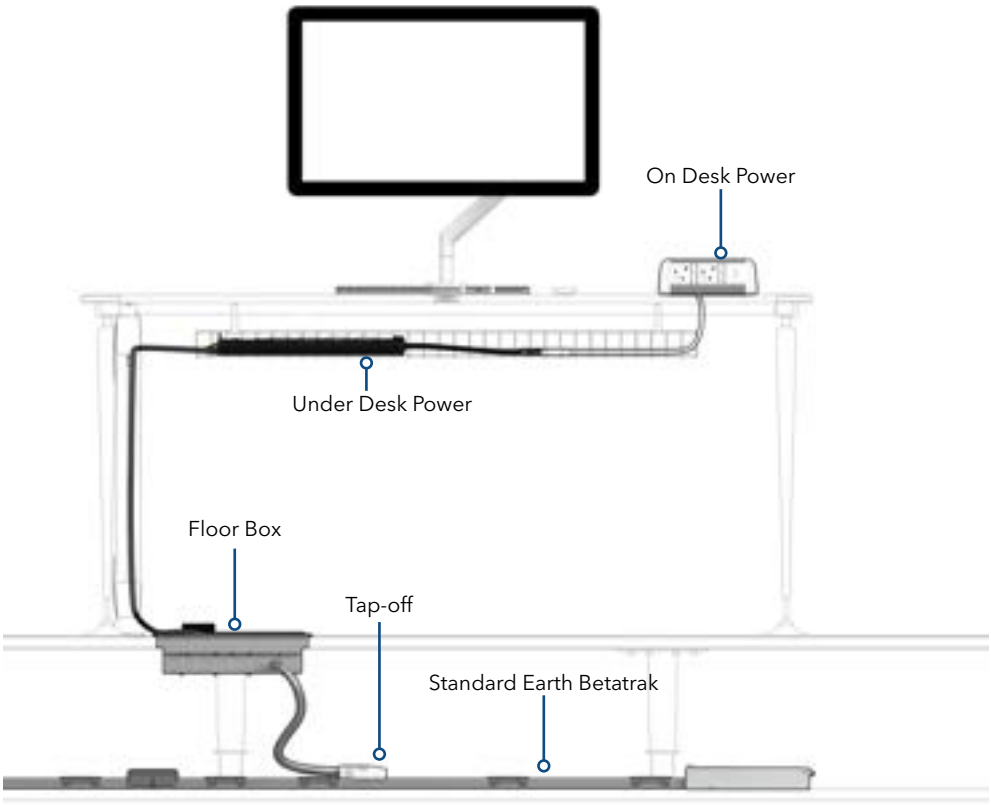


Workstation Powered by two CMD 63A Betatrak Systems

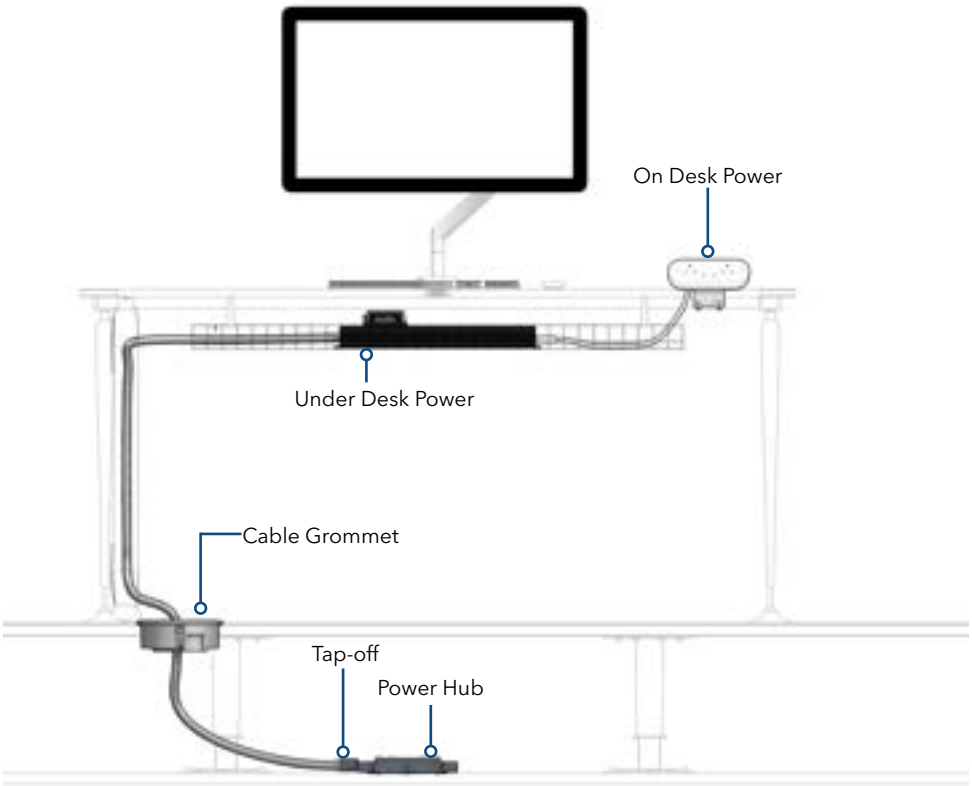


Workstation Schematics

Workstation Powered by CMD Floor Box



Workstation Powered by CMD 32A Power Hub System



Betatrak® Powertrack

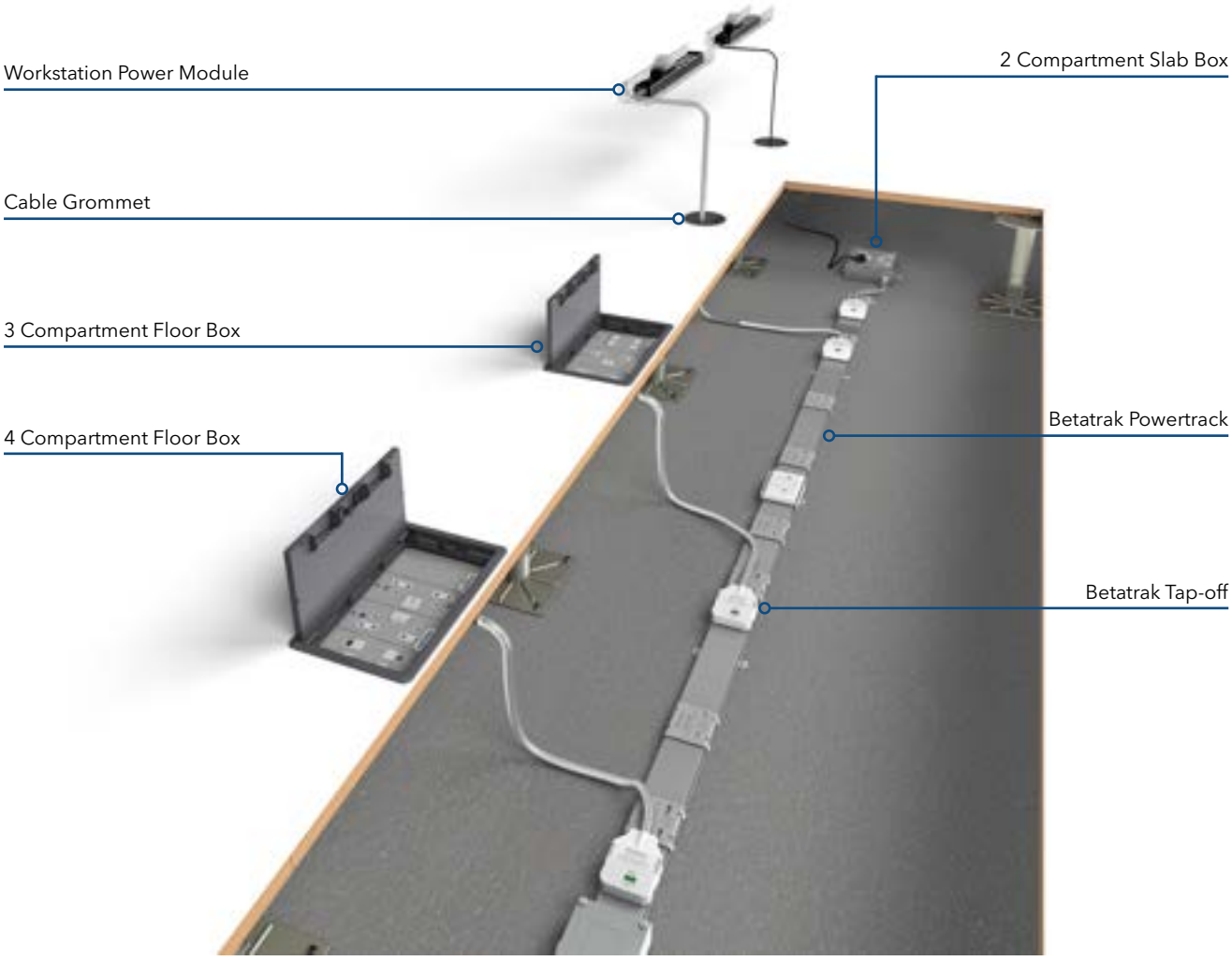
Betatrak is CMD Ltd's underfloor powertrack solution and has been designed and manufactured in accordance with BS EN 61534-22 Powertrack systems. Betatrak is an efficient, flexible solution to underfloor power distribution as it uses a click fit method for a fast-fit connection - reducing on-site labour costs and installation time. Our Betatrak powertrack solution does not propagate flame and is very low maintenance and exceptionally reliable making it the perfect solution in today's modern construction world.

The 63A Betatrak system caters for Standard Earth, Clean Earth (C/E) low noise, Auxiliary Earth, Dual Circuit or 3-Phase applications. Betatrak is installed into raised access floors and there is an option for installation into ceiling areas. Betatrak comes in lengths of 1.2m, 1.8m, 2.4m or 3.6m with tap-off positions provided at 300mm as standard and supplied with integral fixing brackets and sliding dust covers.

The Betatrak system design ensures a safe on-site installation. This is achieved because all Betatrak tap-off outlets are colour and key coded to avoid errors during assembly. For maximum safety each operates a shutter on insertion to ensure no accidental contact can be made to an energised powertrack.

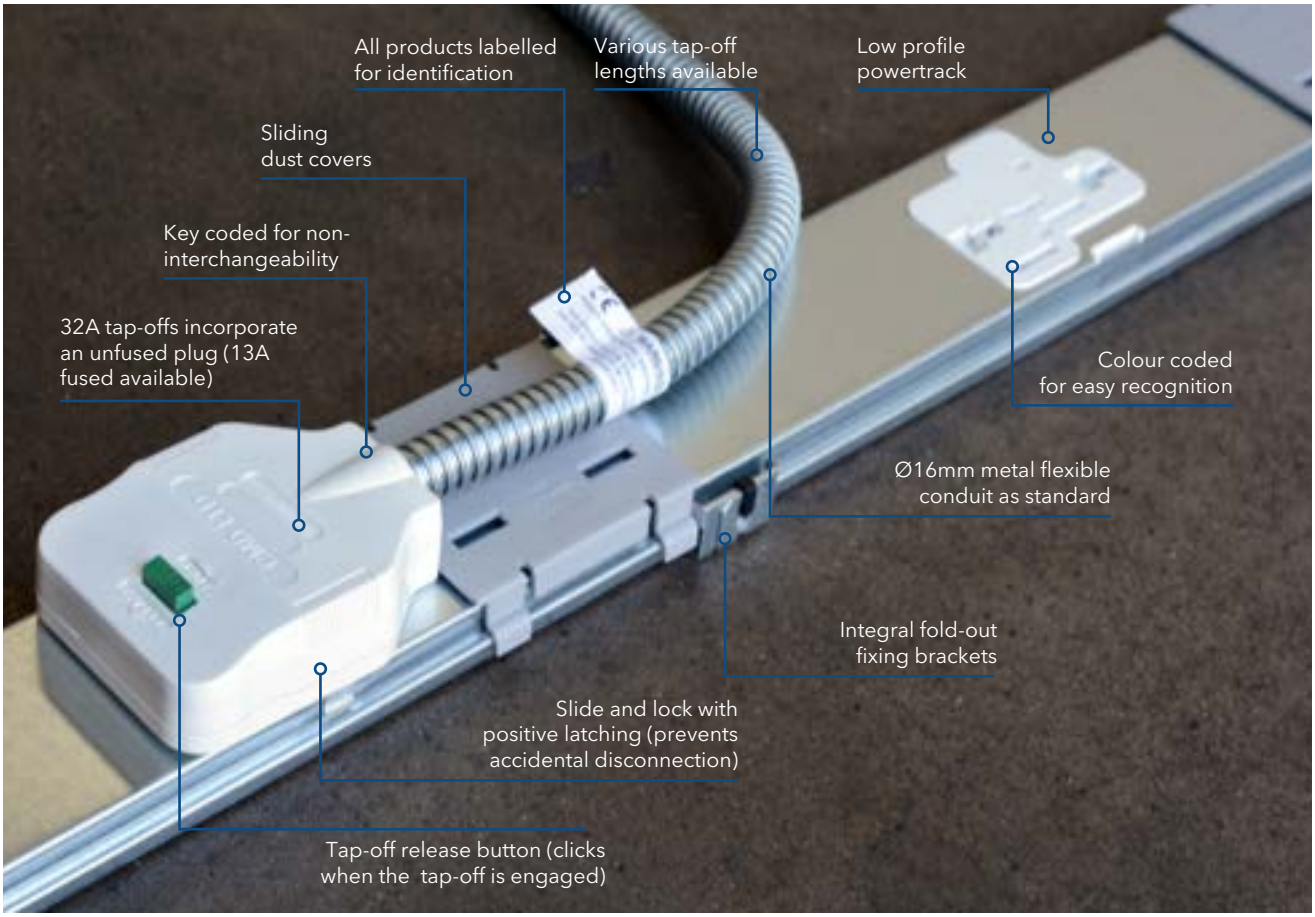
The benefits of using CMD's Betatrak powertrack system:

- A comprehensive range of solutions independently certified to BS EN 61534-22.
- Each length of Betatrak is fitted with fast-fit connection and fixing brackets.
- Feed units are supplied with a stop-end cap.
- Sockets are colour and key coded to avoid installation errors and to ensure a secure tap-off connection.
- Tap-off outlets are protected by integral sliding dust covers.

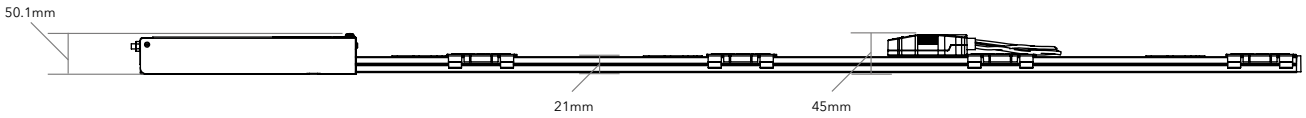


Betatrak Powertrack

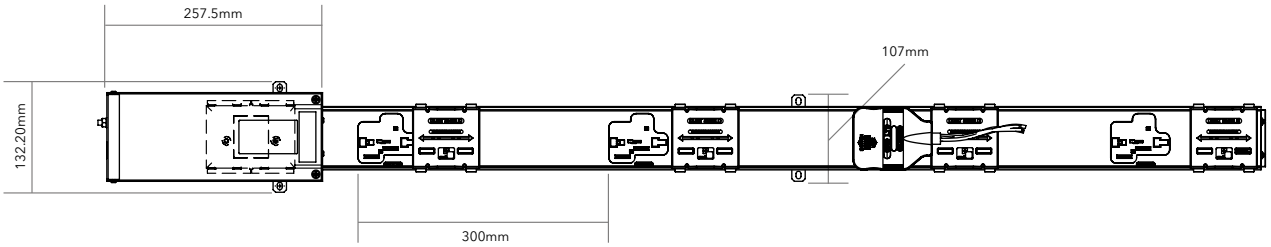
Features



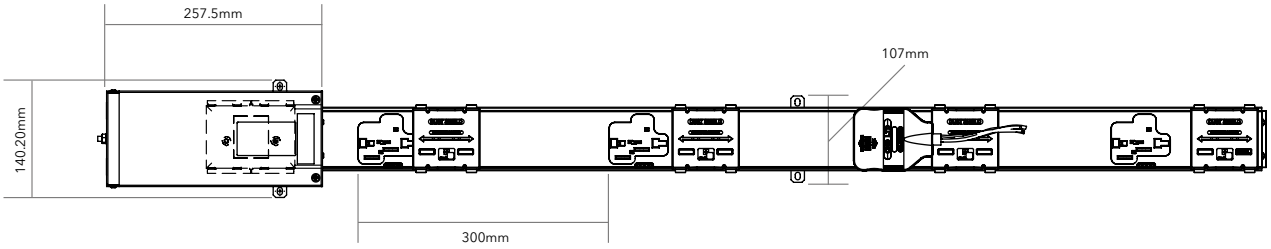
Dimensions



Standard Earth, Clean Earth (C/E) Low Noise and Auxiliary Earth.



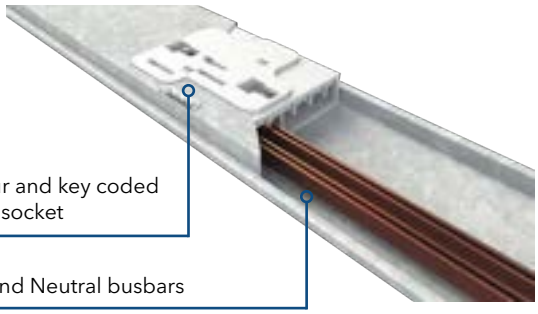
Dual Circuit and 3-Phase.



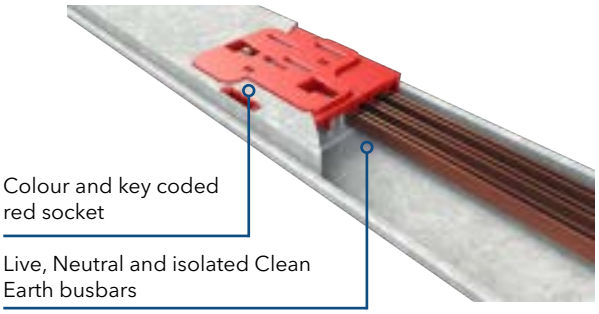
DISTRIBUTION POWER

Betatrak Technical Information

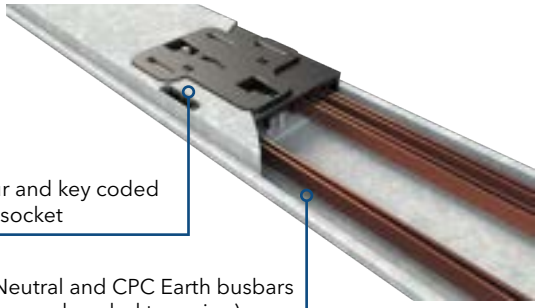
Standard Earth



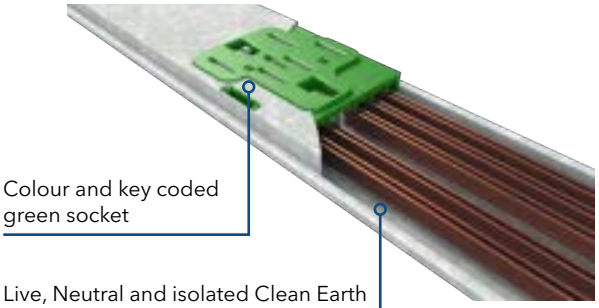
Clean Earth (C/E) Low Noise



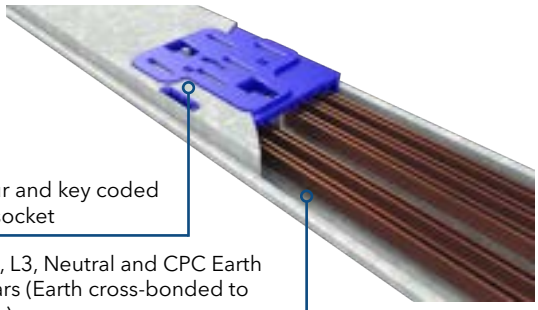
Auxiliary Earth



Dual Circuit



3-Phase



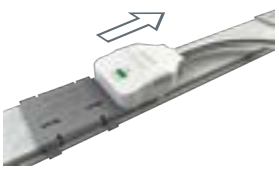
Common Features

- All internal copper busbars are 14mm^2
- Outer steel casing used as CPC Earth path (equivalent to 14mm^2 copper)
- Colour coded and keyed connections to prevent different systems from being connected

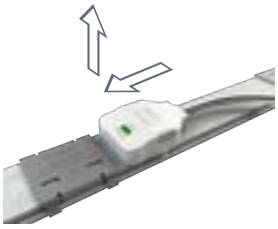
Betatrak Tap-off Engagement/Release



1. Slide dust cover to expose the socket. Align tap-off pins with slots on socket. Push down to engage.



2.Press down and push backwards until button clicks upwards to lock.



3. To remove, press button to disengage. Push forward and lift up to remove.



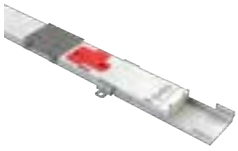
4. Slide dust cover to protect the socket.

Betatrak Specification Guide

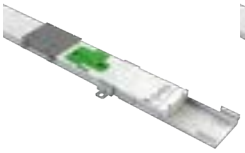
STEP 1

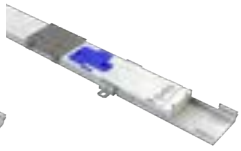
Begin by choosing your Betatrak system type.


Standard Earth


Clean Earth


Auxiliary Earth


Dual Circuit


3-Phase

STEP 2

All Betatrak circuits start with a feed unit. Select the appropriate feed unit suitable for your system.

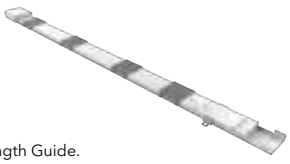


STEP 3

Choose from the Betatrak lengths below to complete the overall run length of your system.

- 1.2m*
- 1.8m*
- 2.4m*
- 3.6m*

*Refer to the Powertrack Run Length Guide.



STEP 4

If runs of Betatrak are required to change direction, the floor slab is uneven or there is an obstruction then choose from our range of pre-wired flexible corners or utilise our flexible corner kit option if it would be more convenient to wire the flexible corner on site.





STEP 5

Choose from our range of pre-wired tap-offs, floor boxes, slab boxes and desk modules to suit your project. Please contact us for assistance in specifying these products.







DISTRIBUTION POWER

Betatrak Run Length Guide

To ensure the most cost effective Powertrack run composition please use the following guide to select the standard lengths needed per run. To comply with BS 7671 Requirements for electrical installations, you must ensure that the maximum voltage drop and earth fault loop impedance is not exceeded when calculating the powertrack run lengths.

	Lengths			
Run	**3.6m**	**2.4m**	**1.8m**	**1.2m**
1.2m	-	-	-	1
1.8m	-	-	1	-
2.4m	-	1	-	-
3.0m	-	-	1	1
3.6m	1	-	-	-
4.2m	-	1	1	-
4.8m	1	-	-	1
5.4m	1	-	1	-
6.0m	1	1	-	-
6.6m	1	-	1	1
7.2m	2	-	-	-
7.8m	1	1	1	-
8.4m	2	-	-	1
9.0m	2	-	1	-
9.6m	2	1	-	-
10.2m	2	-	1	1
10.8m	3	-	-	-
11.4m	2	1	1	-
12.0m	3	-	-	1
12.6m	3	-	1	-
13.2m	3	1	-	-
13.8m	3	-	1	1
14.4m	4	-	-	-
15.0m	3	1	1	-
15.6m	4	-	-	1
16.2m	4	-	1	-
16.8m	4	1	-	-
17.4m	4	-	1	1
18.0m	5	-	-	-
18.6m	4	1	1	-

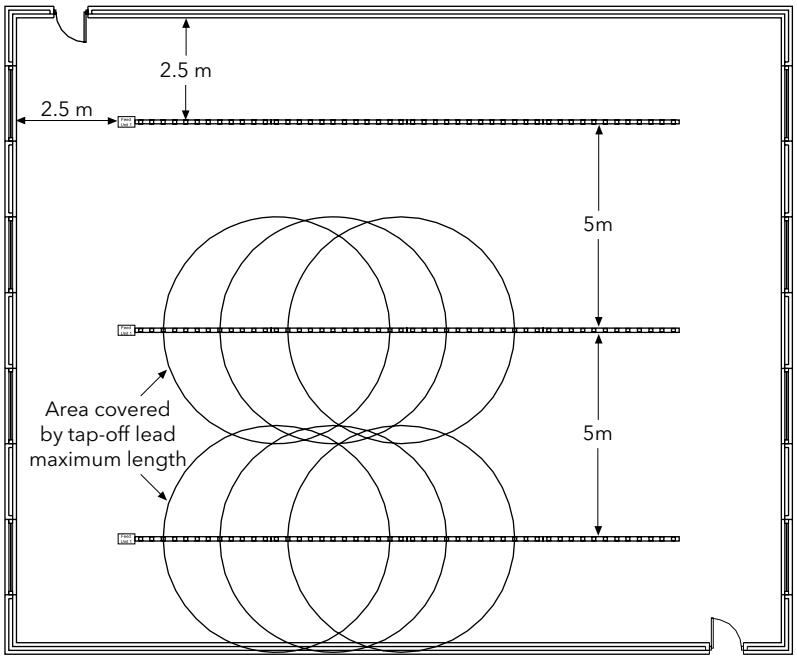
	Lengths			
Run	**3.6m**	**2.4m**	**1.8m**	**1.2m**
19.2m	5	-	-	1
19.8m	5	-	1	-
20.4m	5	1	-	-
21.0m	5	-	1	1
21.6m	6	-	-	-
22.2m	5	1	1	-
22.8m	6	-	-	1
23.4m	6	-	1	-
24.0m	6	1	-	-
24.6m	6	-	1	1
25.2m	7	-	-	-
25.8m	6	1	1	-
26.4m	7	-	-	1
27.0m	7	-	1	-
27.6m	7	1	-	-
28.2m	7	-	1	1
28.8m	8	-	-	-
29.4m	7	1	1	-
30.0m	8	-	-	1
30.6m	8	-	1	-
31.2m	8	1	-	-
31.8m	8	-	1	1
32.4m	9	-	-	-
33.0m	8	1	1	-
33.6m	9	-	-	1
34.2m	9	-	1	-
34.8m	9	1	-	-
35.4m	9	-	1	1
36.0m	10	-	-	-
36.6m	9	1	1	-

Betatrak Layout Guidance

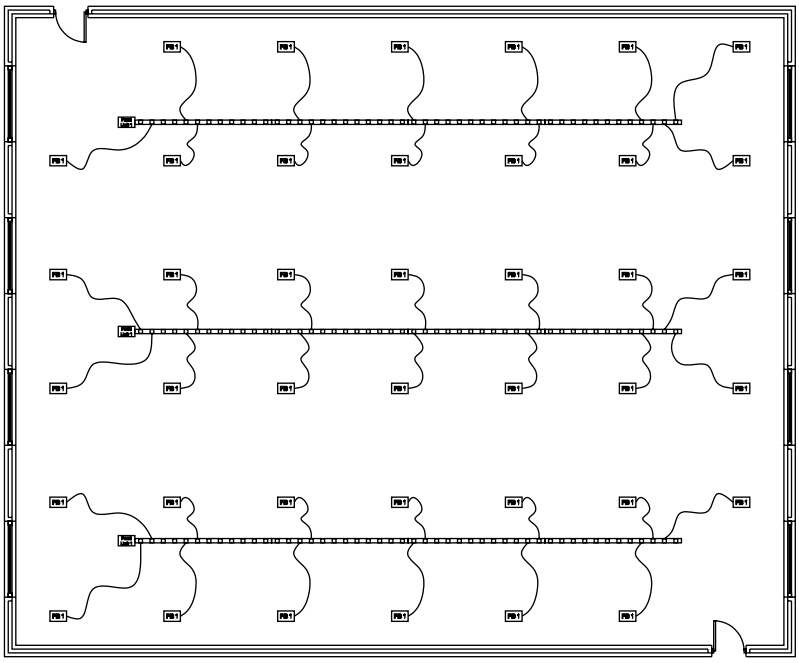
Betatrak is normally arranged in parallel runs with the feed units orientated towards the incoming supply to ensure comprehensive coverage when using a standard 3m tap-off, spacing is recommended to be 5m between each parallel run of track and 2.5m from the perimeter.

Typical Floor Layouts:

Powertrack
3m tap-offs provide full coverage when powertrack is laid out on 5m centres.



Floor Boxes
For general purposes, floor boxes shown are positioned 1 floor box for every 10m^2 (excluding doorways).



Betatrak Earthing Explained

Betatrak System Types

Standard Earth uses the outer galvanised metal casing for the standard earth path.

Clean Earth (C/E) low noise busbar, is for use in power distribution systems that require prevention of noise contamination from other power sources and induced interference from external sources e.g., air conditioning units. Clean Earth (C/E) low noise uses the outer galvanised metal casing for the standard earth path and an internal isolated busbar for the Clean Earth (C/E) low noise path.

Auxiliary Earth uses the outer galvanised metal casing for the standard earth path and is cross-bonded with an internal standard earth busbar. This provides improved earth loop impedance compared to standard earth powertrack.

Dual Circuit is also for use in power distribution systems that require prevention of noise contamination. Dual Circuit combines a Standard Earth and a Clean Earth (C/E) low noise circuit in one housing. Dual Circuit can be used to supply two separate circuits for areas where there is a requirement for both a standard and a clean supply.

3-Phase is used to distribute a balanced 3-Phase and neutral supply into single phase load applications. 3-Phase uses the outer galvanised metal casing for the standard earth path and is cross-bonded with an internal standard earth busbar. This provides improved earth loop impedance compared to Standard Earth powertrack.

Wiring Regulation 543.7.1.203, BS 7671 Earthing requirements for installations of equipment having high protective conductor currents

This wiring regulation has commonly become known as 'high integrity earthing' and is a requirement for electrical circuits that have an earth conductor current that exceeds 10mA. It allows for the safe connection and operation of circuits or equipment with the potential for excessive earth leakage. Every final circuit and distribution circuit in a fixed wiring electrical installation must comply with one of five options.

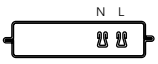
Betatrak allows compliance with option (i), which states that the protective conductor shall not be less than 10mm^2. Betatrak achieves this using 63A high conductive, 14mm^2 copper busbar. The metal housing, when used as the protective earth conductor, has a copper cross-sectional area equivalent to 14mm^2.

CMD Ltd's tap-off units allow compliance with option (ii) of the wiring regulation. Option (ii) states the protective conductor shall have a cross-sectional area of not less than 4mm^2 and be enclosed to provide mechanical protection. All CMD's tap-offs with an LSOH multi-strand single cable have a 4mm^2 protective conductor and are housed in flexible conduit.

Clean Earth compliance to 543.7.1.203, BS 7671

CMD's Clean Earth (C/E) low noise powertrack system is designed to allow electrical installations to comply with both wiring regulation 543.7.1.203 and the requirements of a Clean Earth (C/E) low noise powertrack system. A Clean Earth (C/E) low noise powertrack system prevents contamination of the clean earth path from other polluting sources on the standard earth path by creating a greater distance to travel from source. Pollution is encouraged to discharge down the main earth bar at the electrical services intake point.

Betatrak Part Numbers

			Standard Earth	Clean Earth (C/E)	Auxiliary Earth	Dual Circuit	3-Phase
Feed Unit							
			PBSF3010/SM	PBCF4010/SM	PBAF3010/SM	PBDF6010/DM	PBTF5010/DM
Powertrack							
Length	No of Sockets	Centres (mm)	White Socket	Red Socket	Black Socket	Green Socket	Blue Socket
							
3.6m	12	300	PBST3336	PBCT4336	PBAT3336	PBDT6336	PBTT5336
2.4m	8	300	PBST3324	PBCT4324	PBAT3324	PBDT6324	PBTT5324
1.8m	6	300	PBST3318	PBCT4318	PBAT3318	PBDT6318	PBTT5318
1.2m	4	300	PBST3312	PBCT4312	PBAT3312	PBDT6312	PBTT5312
Flexible Corner							
							
1m Conduit			PBSB3031H/SM	PBCB4031H/SM	PBAB3031H/SM	PBDB6031H/DM	PBTB5031H/DM
2m Conduit			PBSB3032H/SM	PBCB4032H/SM	PBAB3032H/SM	PBDB6032H/DM	PBTB5032H/DM
Flexible Corner Kit (does not include conduit or cables)							
							
			PBSB3000/SM	PBCB4000/SM	PBAB3000/SM	PBDB6000/DM	PBTB5000/DM

Betatrak Tap-offs

CMD Ltd's tap-off units are for use with the Betatrak powertrack system and are designed to ensure a safe on-site installation. They are non-interchangeable between the powertrack types, which are Standard Earth, Clean Earth (C/E) low noise, Auxiliary Earth, Dual Circuit (Standard Earth and Clean Earth) or 3-Phase. Tap-off units come in various lengths with fused and unfused options available.

Further key benefits include:

- Supplied with a slide locking and positive internal latching mechanism preventing accidental disconnection.
- Can be added to or removed from the Betatrak powertrack system while the system is live.

The metal flexible conduit on all CMD Betatrak Tap-offs are supplied at 225mm less than the 3m and 5m stated lengths to allow for electrical connections to components without stressing the electrical terminations. Therefore, a 3m tap-off will have a metallic flexible conduit length of 2775mm and a 5m tap-off will be 4775mm long.

CMD tap-off units allow compliance with option (ii) of wiring regulation 543.7.1.203, BS 7671 earthing requirements for installations of equipment having high protective conductor currents. This is achieved because the metal flexible conduit is 16mm diameter and encloses 4mm^2 protective conductor.

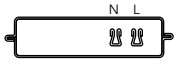
UK Regulation 434.2.1 of BS 7671 (Fault Protection) states that the maximum length may not exceed 3m. This is because there will be a reduction in current-carrying capacity in a 63A powertrack system at the point where the 32A tap-off unit is required to supply other products in the powertrack system.

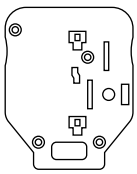
If your product solution requires you to exceed a length of 3m in a 63A powertrack system (where the circuit protective device is greater than 32A) then a 13A Fused tap-off unit should be used. CMD can supply unfused tap-offs that exceed 3m for use with powertrack systems rated at no more than 32A, but a suitable circuit protective device should be used to protect from overload and fault current. Extended guidance on unfused tap-off units exceeding 3m is available and should be referenced when specifying.

Betatrak Tap-off Part Numbers

Standard Earth

- White plug and socket





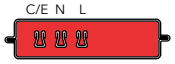
Code	Description
PBSX3323H	3m 32A Unfused Tap-off
PBSX3325H	5m 32A Unfused Tap-off

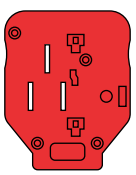
Code	Description
PBSX3133H	3m 13A Fused Tap-off
PBSX3135H	5m 13A Fused Tap-off



Clean Earth (C/E)

- Red plug and socket





Code	Description
PBCX4323H	3m 32A Unfused Tap-off
PBCX4325H	5m 32A Unfused Tap-off

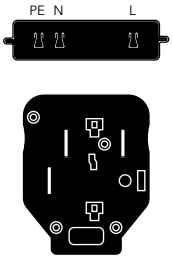
Code	Description
PBCX4133H	3m 13A Fused Tap-off
PBCX4135H	5m 13A Fused Tap-off



Betatrak Tap-off Part Numbers

Auxiliary Earth

- Black plug and socket



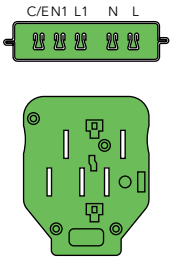
Code	Description
PBAX3323H	3m 32A Unfused Tap-off
PBAX3325H	5m 32A Unfused Tap-off

Code	Description
PBAX3133H	3m 13A Fused Tap-off
PBAX3135H	5m 13A Fused Tap-off



Dual Circuit

- Green plug and socket

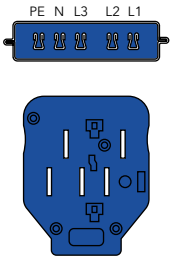


Code	Description
	Dual Circuit Betatrak is used with Standard Earth and Clean Earth tap-offs where two separate circuits are required in a single track system. Dual Circuit 25A unfused tap-offs are available on request.



3-Phase

- Blue plug and socket



Code	Description
PBTX3323H*	3m 32A Unfused Tap-off
PBTX3325H*	5m 32A Unfused Tap-off

Code	Description
PBTX3133H*	3m 13A Fused Tap-off
PBTX3135H*	5m 13A Fused Tap-off



*Add suffix -1, -2 or -3 to indicate required phase configuration of the above 3-Phase tap-offs E.g., PBTX3323H-1.
NB: 3-Phase 28A unfused tap-offs with all three phases are available on request.

Alphatrak Tap-offs (CMD's Legacy Powertrack System)

Code	Description
PASX3323H	3m 32A Unfused Standard Earth Tap-off
PASX3325H	5m 32A Unfused Standard Earth Tap-off
PACX4323H	3m 32A Unfused Clean Earth Tap-off
PACX4325H	5m 32A Unfused Clean Earth Tap-off



Betatrak Mechanical and Electrical Data

Electrical Characteristics					
Rated Current				63	Amps
Rated Voltage				240/415	Volts
Frequency				50	Hz
Conditional Short Circuit Rating	(Protection devices IEC 60269/BS88 Fuse and IEC 60898 MCB)			16	kA
Max withstand current				10	kA Peak
Short time withstand current				1200	A for 0.4 Sec
Volt Drops (Line and Neutral)	Busbars			3.2	mV/A/m
	Feed Unit			0.4	mV/A
	Track Coupler			0.6	mV/A/m
	Tap-off Connection			0.5	mV/A
	+4mm² Cable			11.00	mV/A/m
	+2.5mm²			18.00	mV/A/m
	Flexible Corner Unit			3.6	mV/A
	+10mm² Cable (1.2m)			4.7	mV/A/m
Earth Fault Loop Impedance	Line to Earth (Housing)			3.0	mΩ/m
	Line to Earth (Bar)			3.2	mΩ/m
	Line to Earth (Bar + Housing)			2.5	mΩ/m
	Feed Unit			0.8	mΩ
	Track Coupler			0.6	mΩ
	Tap-off Connection			0.6	mΩ
	+4mm² Cable			11.0	mΩ/m
	+2.5mm² and 4mm² Cable			14.5	mΩ/m
	Flexible Corner Unit			4.0	mΩ
	+10mm² Cable			4.7	mΩ/m
Mechanical Data					
Number of Copper Conductors				2, 3, or 5	
Busbar Cross-section Area				14	mm²
Betatrak® Casing Copper Equivalent (Where casing is protective Earth)				14	mm²
Cable Termination Capacity				16	mm²
Tap-off Cable 32A (BS EN 50525-3-41)				4.0	mm²
Tap-off Cable 13A fused (BS EN 50525-3-41)				2.5 and 4.0 CPC	mm²
Tap-off Conduit Sizes				Ø16 or Ø20	mm
Flexible Corner Unit Cable (BS 6231)				10	mm²
Flexible Interlink Conduit				Ø25	mm
Feed Conduit Entry				1 or 2 x Ø25	mm
IP Rating BS EN 60529				4X	
Material Specification					
Betatrak® Casing	Galvanised Steel				
Busbars	High Conductivity Copper				
Busbar Insulators and Coupling Mould	Flame Retardant Polycarbonate				
Couple Contacts	Copper				
Feed Unit Terminals	Brass Silver Plated				
Tap-off Socket and Plug Mouldings	Flame Retardant Polycarbonate				
Tap-off Shutter	Polyester				
Tap-off Plug Pins	Brass				
Tap-off Cable	LSOH BS EN 50525-3-41				
Flexible Corner Cable	Tri Rated BS 6231				
Ambient Temperature Control Factors					
Temperature	25C	30C	35C	40C	50C
Factor	1.13	1.07	1.0	0.93	0.75

Betatrak Compliance Standard

ASTA Certificate of Verification Tests

Laboratory Ref. No:	45673/1
APPARATUS:	Rated current 63A, rated voltage 240V/415V, rated impulse voltage 4kV, 50Hz, with a conditional short circuit rating of 16kA. A range of underfloor powertrack systems and associated tap-off units.
DESIGNATION:	Betatrak system
MANUFACTURER:	CMD Limited, Sycamore Road, Eastwood Trading Estate, Rotherham, S65 1EN
TESTED BY:	kA Testing Facility, John Street, New Basford, Nottingham, NG7 7HL, UK
	Prof. Ir. Damstra Laboratory, P.O Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands
	Exova (UK) Limited, 6 Coronet Way, Centenary Park, Salford, M50 1RE, UK
	Exova Warringtonfire, Holmesfield Road, Warrington, WA1 2DS, UK
	Exova (UK) Limited, Key Industrial Estate, Fernside Road, Willenhall, West Midlands, WV13 3YA, UK
DATE(S) OF TESTS:	26th February - 23rd August 2016

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with:

IEC 61534-22 Edition 2.0, 2014-06 and BS EN 61534-22: 2014

Verifications with reference to the tests listed in Sub-Clause 5.3 of IEC 61534-1: Edition 2.1 2014-06

1. Marking and Documentation, Clause 8.
2. Construction, Clause 9.
3. Clearances, creepage distances and solid insulation, Clause 10.
4. Protection against electric shock, Clause 11.
5. Terminals and Terminations, Clause 12.
6. Screws, current carrying parts and connections, Clause 13.
7. Mechanical strength, Clause 14.
8. Insulation resistance test and dielectric strength test, Clause 15.
9. Normal operation, Clause 16.
10. Temperature rise, Clause 17.
11. Short-circuit protection and short-circuit withstand strength, Clause 18.
12. Resistance to heat, Clause 19.
13. Fire hazard, Clause 20.
14. External influences, Clause 21.

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with CMD Ltd.

Issued by Intertek, Centre Court, Meridian Business Park, Leicester, LE19 1WD.
Contact: asta@intertek.com Tel: +44 (0)116 263 0330.

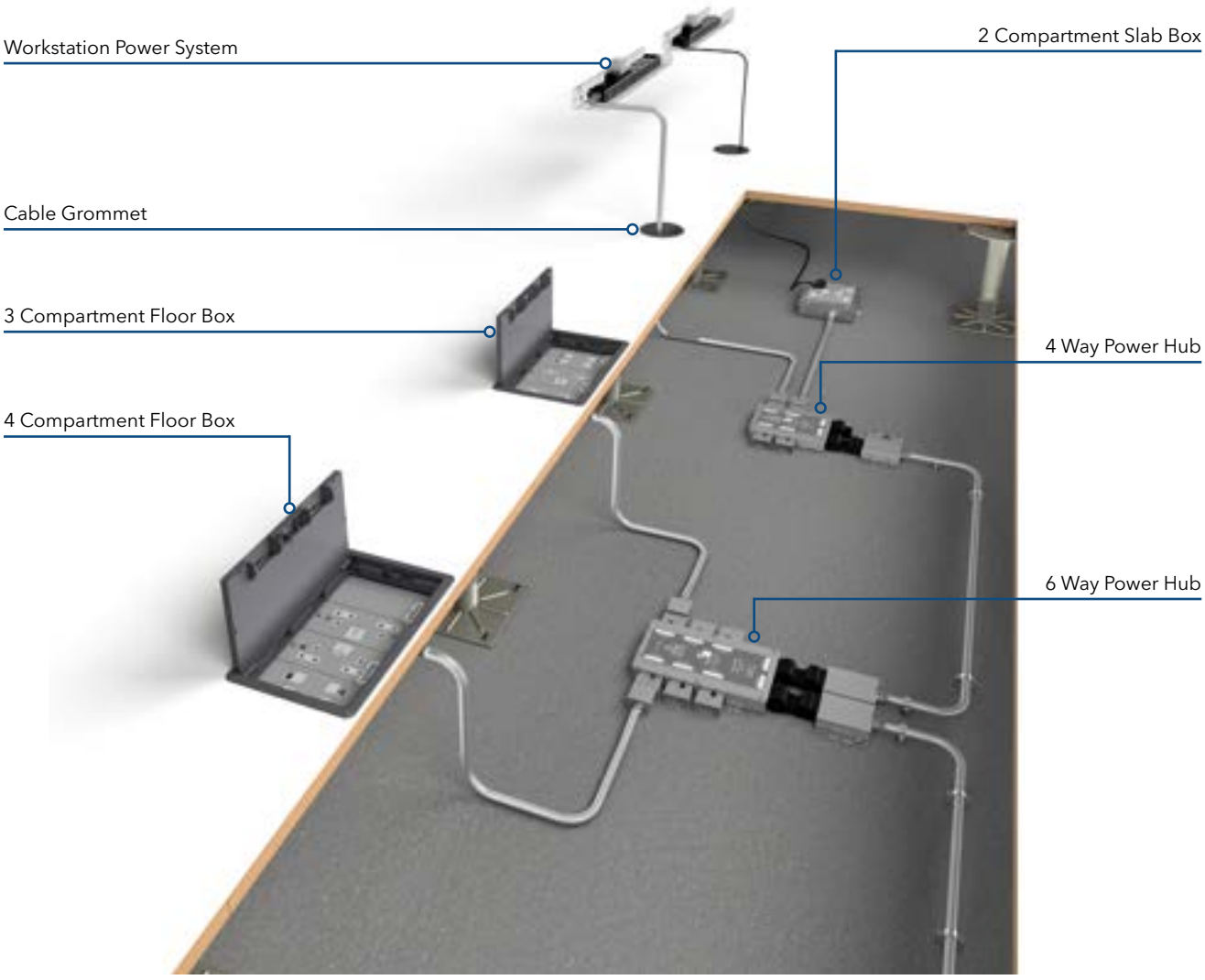
Power Hub Power Distribution

CMD Ltd's 32A Power Hub is a modular solution designed for buildings where a conventional powertrack system can't be installed due to height restrictions or obstacles in the floor void, or where the slab is uneven. Power Hub is an innovative solution when the environment is preventing runs of powertrack being laid at the same level. Power Hub is low profile at 38mm in height and is made from galvanised steel making it a strong and robust solution.

The benefits of using CMD's Power Hub power distribution system:

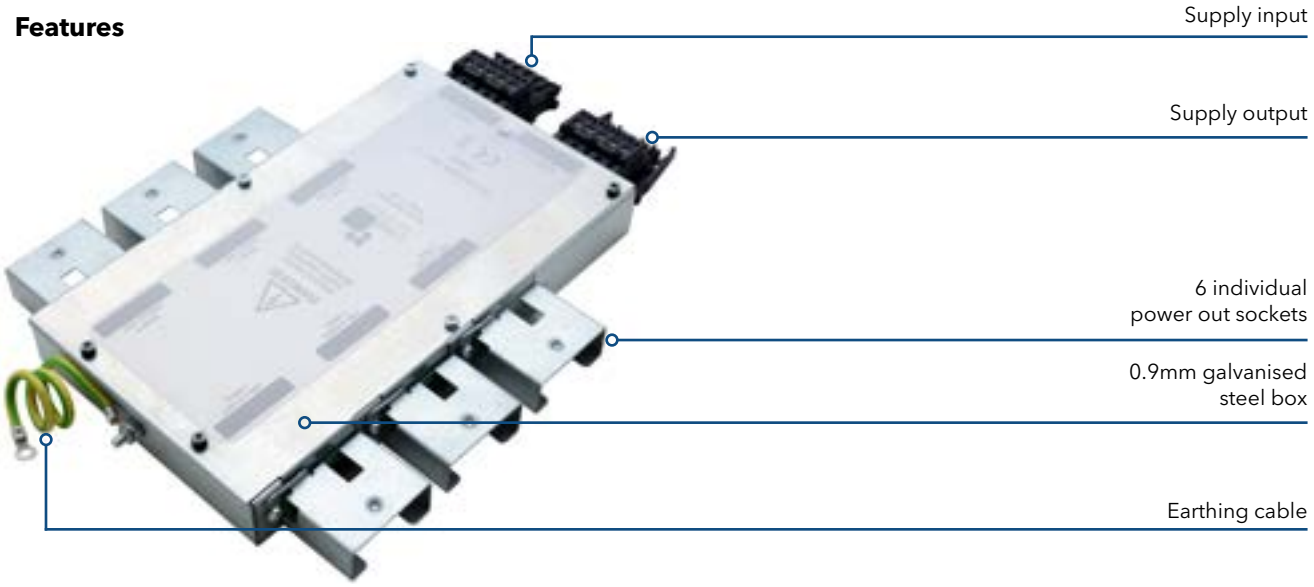
- Allows compliance with Wiring Regulation 543.7.1.203 BS 7671 for earthing requirements.
- 6 way and 4 way Power Hubs available for multiple configurations.
- A secure tap-off connection is made using BS EN 61535 connectors housed in a metallic housing.
- Supplied with retractable fixing brackets.

Note: The CMD Power Hub system is designed for radial type final circuits only at a maximum rating of 32A.



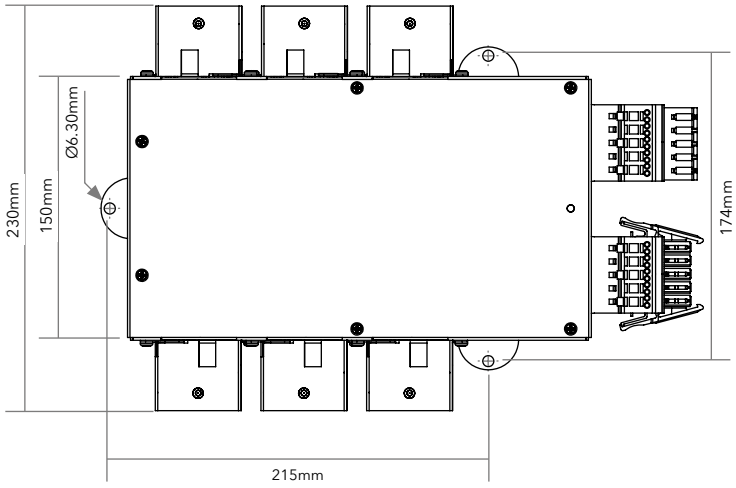
Power Hub Power Distribution

Features

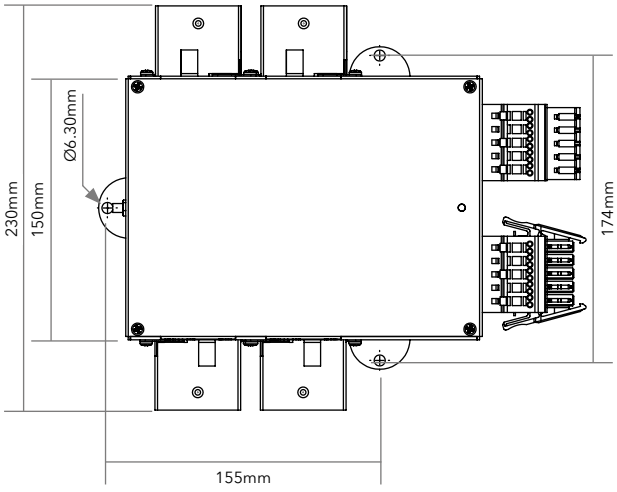


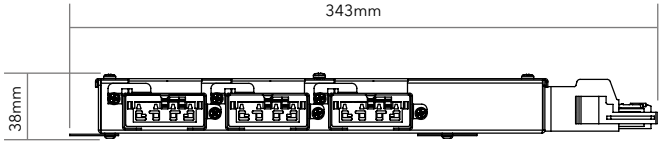
Dimensions:

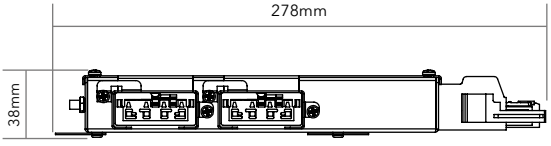
6 Way



4 Way







Power Hub Specification Guide

STEP 1

All Power Hub circuits start with a feed unit.



STEP 2

Choose the number of Power Hub outputs required.

- 4-Way
- 6-Way





STEP 3

If additional Power Hubs are linked together on the same circuit choose from our range of pre-wired flexible corners or utilise our flexible corner kit option if it would be more convenient to wire the flexible corner on site (e.g. the flexible corner must pass through/ over an obstruction).





STEP 4

Choose from our range of pre-wired tap-offs, floor boxes, slab boxes and desk modules to suit your project. Please feel free to contact us for assistance in specifying these products.







Power Hub Part Numbers

Power Hub

Code	Description
PZB3246MF6/W	6 Way 32A Power Hub
PZB3246MF4/W	4 Way 32A Power Hub

Power Hub Tap-offs

Code	Description
PZLXW434003.0	3m 32A Unfused Tap-off
PZLXW434005.0	5m 32A Unfused Tap-off

Power Hub Feed Units

Code	Description
PZBSTARTERF	Power Hub Feed Unit Suitable for 20mm SWA

Power Hub Neutrik Tap-off

Code	Description
PPA9123/K	5m 32A Unfused Tap-off c/w 3-pole 32A Black Neutrik

Power Hub Flexible Corners

Code	Description
PZLEM536003.0	Power Hub 3m Flexible Corner
PZLEM536005.0	Power Hub 5m Flexible Corner

Power Hub Tap-off with Rotasoc Infeed

Code	Description
RABX2069	32A Infeed Standard Earth Module c/w 5m 32A Unfused Power Hub Tap-off

Power Hub Flexible Corner Kit

Code	Description
PZBFLEXKIT	Power Hub Flexible Corner Kit Suitable for 20mm SWA NB: Not supplied with cables or conduit.

Power Hub Tap-off Specification

CMD Ltd's tap-off units are for use with the Power Hub system and are supplied with a locking mechanism preventing accidental disconnection. Tap-off units are unfused and come in various lengths.

The metal flexible conduit on all CMD Power Hub Tap-offs are supplied at 225mm less than the 3m and 5m stated lengths to allow for electrical connections to components without stressing the electrical terminations. Therefore, a 3m tap-off will have a metallic flexible conduit length of 2775mm and a 5m tap-off will be 4775mm long.

CMD tap-off units allow compliance with option (ii) of wiring regulation 543.7.1.203, BS 7671 earthing requirements for installations of equipment having high protective conductor currents. This is achieved because the metal flexible conduit is 16mm diameter and encloses a $4mm^2$ protective conductor.

Power Hub Mechanical and Electrical Data

Electrical Characteristics					
Product Compliance	General requirements for electrical accessories. Specification			BS 5733	
Rated Current				32	Amps
Rated Voltage				250	Volts
Frequency				50	Hz
Short time withstand current				1200	A for 0.4 Sec
Volt Drops (Line and Neutral)	Extender Lead 6mm² Cable			7.3	mV/A/m
	Tap-off 4mm² Cable			11.0	mV/A/m
	Male/Female Connectors			1.5	mV/A
	Power Hub through connection			8.5	mV/A
Earth Fault Loop Impedance	Extender Lead 6mm² Cable			6.16	mΩ/m
	Tap-off 4mm² Cable			9.22	mΩ/m
	Male/Female Connectors			1.0	mΩ
	Power Hub through connection			5.09	mΩ
Mechanical Data					
Number of Copper Conductors				3	
Cross-section Area				4.0/6.0	mm²
Cable Termination Capacity feed unit				4.0-6.0	mm²
Tap-off Cable 32A (BS EN 50525-3-41)				4.0	mm²
Tap-off Conduit Size				Ø16	mm
Flexible Corner Unit Cable (BS EN 50525-3-41)				6.0	mm²
Flexible Interlink Conduit				Ø16	mm
Feed Conduit Entry				1 x Ø20	mm
IP Rating BS EN 60529				2XC	IP
Material Specification					
Casing	Galvanised Steel				
Conductors internal	LSOH BS EN 50525-3-41				
Connectors	Wago Connectors Series 831 & 770 BS EN 61535				
Connector Contacts	Copper or copper alloy (surface-treated)				
Feed Unit Terminals	Push-in CAGE CLAMP Chrome nickel spring steel (CrNi)				
Tap-off Socket and Plug Mouldings	Polyamide (PA66)				
Tap-off Conductors	LSOH BS EN 50525-3-41				
Flexible Corner Conductors	LSOH BS EN 50525-3-41				
Ambient Temperature Control Factors					
Temperature	30C	35C	40C	45C	50C
Factor	1.0	0.94	0.87	0.79	0.71

Floor Box Power Distribution

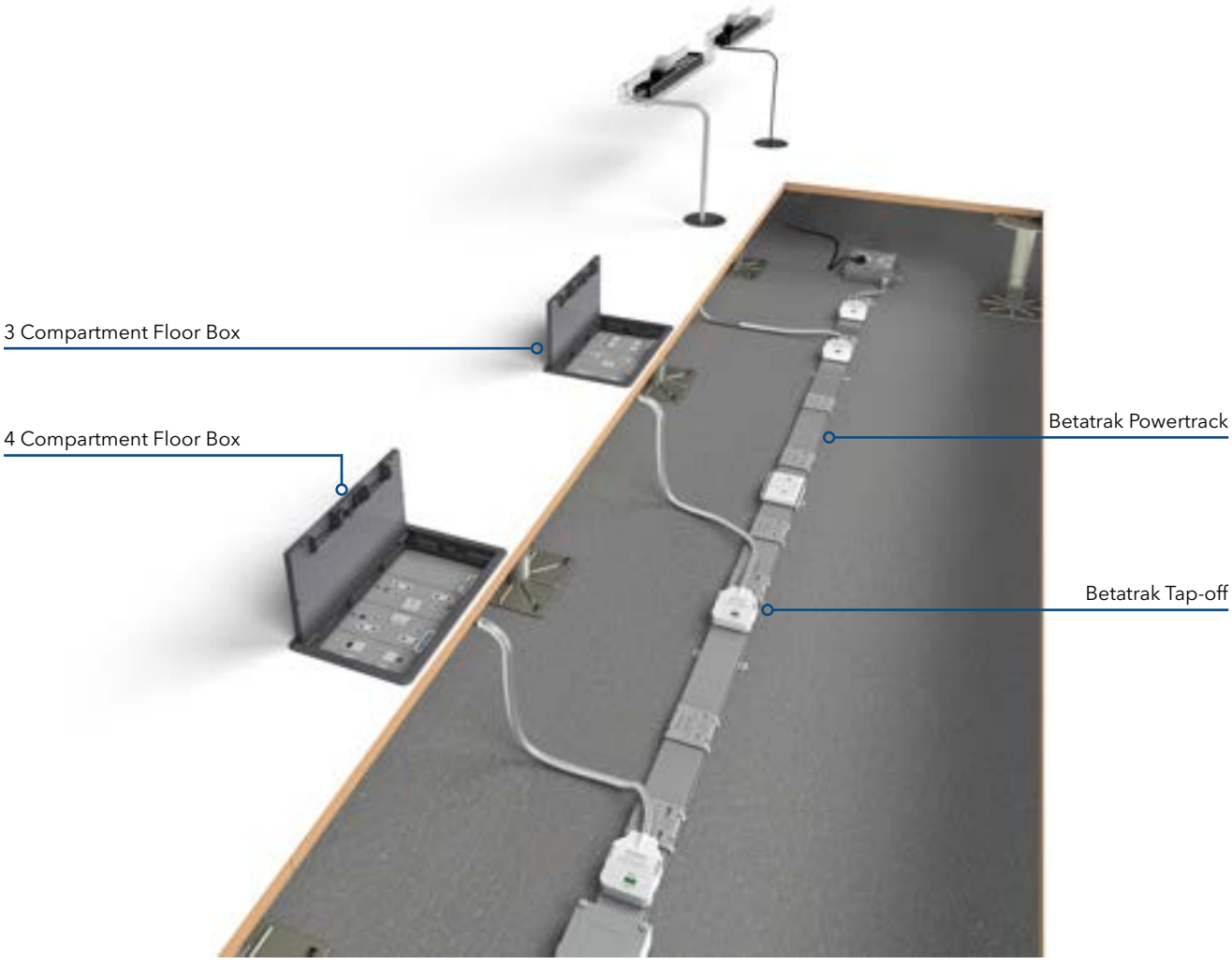
CMD Ltd offer four floor box variants. They are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power sockets and data.

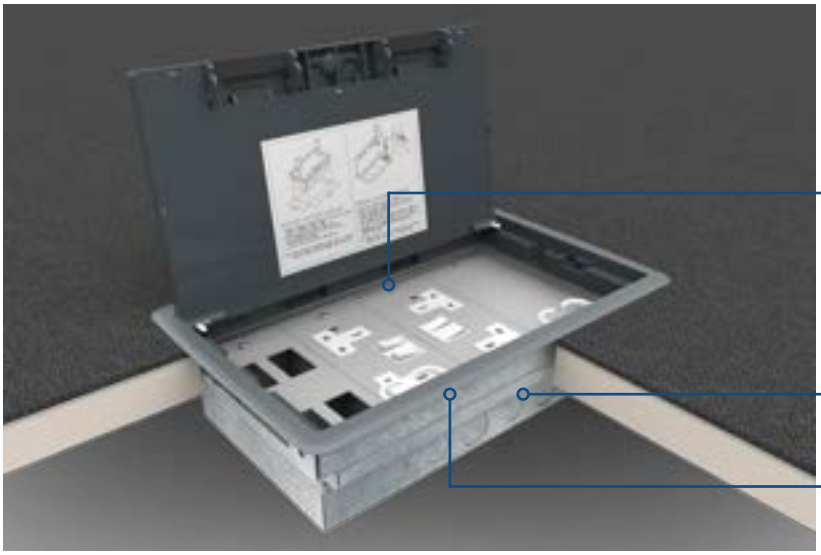
The floor boxes available are:

- 25 Series Floor Box (Single Box Base) for raised floor applications.
- 25A Series Floor Box (Separate Box Base) for raised floor applications.
- 25SB Series Floor Box (Single Box Base) for screed applications.
- 25H Series Floor Hatch for raised floor applications.
- 90 Series Stainless Steel Floor Box (Single Box Base) for raised floor and screed applications.
- 22 Series Floor Box (Single Bbox Base) for raised floor and screed applications.

The benefits of using a CMD Floor Box:

- Multiple options available designed to meet your specification requirements.
- Designed to comply with BS EN 61534-22 Traffic Load Tests.
- All floor boxes for raised floors can be pre-wired with Betatrak Tap-offs for ease of installation.
- Low profile floor box surround to reduce the risk of tripping as per BS EN 61534-22 Powertrack systems. Particular requirements for powertrack systems intended for onfloor or underfloor installation, section 9.





Fully configurable floor box

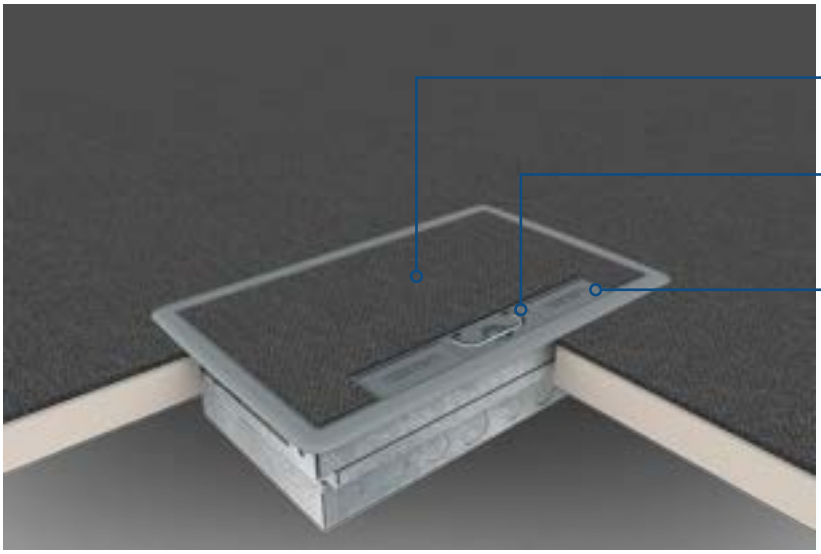
- Wide range of accessory plates.
- Can be prewired with Betatrak Tap-offs.
- Deeper versions available.

Fast-fit advantages

- Quick removal with services fitted.
- Installation tolerance of -0/+1mm.
- Fixes to floor thicknesses of 15-50mm.

Grey moulded PC/ABS

- RAL 7031.



Carpet inlay

- 6.5mm.

Handle

- Self Closing.

Robust cable outlet

- Designed with 'Anti-Trip' facility.

Optional lockable lid

- Added security allows access for skilled or instructed persons only.

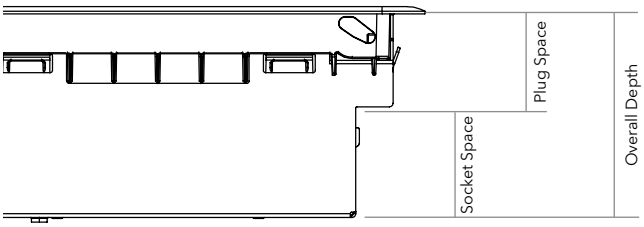
25 Series Floor Box (Single Box Base)

The 25 Series floor boxes are suitable for raised floor applications and can be divided into 3 or 4 compartments. The 25 Series floor boxes are designed for use in commercial environments and provide an efficient fast-fit installation with ease of access to power sockets and data..

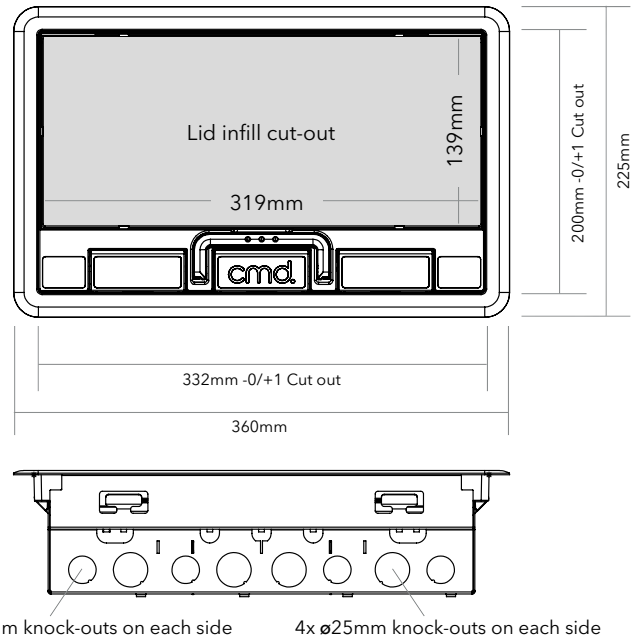
Features include:

- Designed to comply with BS EN 61534 Traffic Load Tests, and features low profile lid and non trip cable outlet brackets.
- Supplied with dividers to configure into either a 3 or 4 compartment box.
- Simple rectangular 6.5mm deep lid infill for carpet.
- A choice of three cable outlet points.
- Reversible, self closing lid and cable management to aid workplace re-design.
- Robust, auto close metal handle.
- Safe touch, integrated floor fixing for quick and easy installation.
- Galvanised steel back box.
- A choice of accessory plate sizes:
  - 3 compartment: 100mm x 175mm
  - 4 compartment: 75mm x 175mm
- Can be supplied with Betatrak tap-offs pre-wired to socket outlets.
- Grey lid and trim HB rated PC-ABS





Overall Depth	Plug Space	Socket Space
85mm	27mm	47mm
100mm	41mm	47mm
115mm	56mm	47mm
130mm	71mm	47mm



Empty 25 Series Floor Box

3/4 Compartment

Code	Description
PP2585G	Standard 'Fast-Fit' 85mm Deep
PP2510G	Standard 'Fast-Fit' 100mm Deep
PP2511G	Standard 'Fast-Fit' 115mm Deep
PP2513G	Standard 'Fast-Fit' 130mm Deep
Add Suffix KL	Option to add 2 Key Locks to a floor box lid

Standard Earth Pre-wired 25 Series Floor Box

85mm deep floor box c/w 3m or 5m 32A unfused Betatrak Tap-off

3 Compartment

Code	Description
3m Standard Earth White Plug, Grey Power Plates	
P25385BS3U100	1x Twin 13A UK Switched Socket
P25385BS3U200	2x Twin 13A Uk Switched Sockets
P25385BS3U101	1x Twin 13A UK Switched RCD Socket
P25385BS3U201	2x Twin 13A UK Switched RCD Sockets
5m Standard Earth White Plug, Grey Power Plates	
P25385BS5U100	1x Twin 13A UK Switched Socket
P25385BS5U200	2x Twin 13A UK Switched Sockets
P25385BS5U101	1x Twin 13A UK Switched RCD Socket
P25385BS5U201	2x Twin 13A UK Switched RCD Sockets

4 Compartment

Code	Description
3m Standard Earth White Plug, Grey Power Plates	
P25485BS3U100	1x Twin UK 13A Switched Socket
P25485BS3U200	2x Twin UK 13A Switched Sockets
P25485BS3U101	1x Twin UK 13A Switched RCD Socket
P25485BS3U201	2x Twin UK 13A Switched RCD Sockets
5m Standard Earth White Plug, Grey Power Plates	
P25485BS5U100	1x Twin UK 13A Switched Socket
P25485BS5U200	2x Twin UK 13A Switched Sockets
P25485BS5U101	1x Twin UK 13A Switched RCD Socket
P25485BS5U201	2x Twin UK 13A Switched RCD Sockets

Clean Earth Pre-wired 25 Series Floor Box

85mm deep floor box c/w 3m or 5m 32A unfused Betatrak Tap-off

3 Compartment

Code	Description
3m Clean Earth Red Plug, Red Power Plates	
P25385BC3U100	1x Twin UK 13A Switched Socket
P25385BC3U200	2x Twin UK 13A Switched Sockets
P25385BC3U101	1x Twin UK 13A Switched RCD Socket
P25385BC3U201	2x Twin UK 13A Switched RCD Sockets
5m Clean Earth Red Plug, Red Power Plates	
P25385BC5U100	1x Twin UK 13A Switched Socket
P25385BC5U200	2x Twin UK 13A Switched Sockets
P25385BC5U101	1x Twin UK 13A Switched RCD Socket
P25385BC5U201	2x Twin UK 13A Switched RCD Sockets

4 Compartment

Code	Description
3m Clean Earth Red Plug, Red Power Plates	
P25485BC3U100	1x Twin UK 13A Switched Socket
P25485BC3U200	2x Twin UK 13A Switched Sockets
P25485BC3U101	1x Twin UK 13A Switched RCD Socket
P25485BC3U201	2x Twin UK 13A Switched RCD Sockets
5m Clean Earth Red Plug, Red Power Plates	
P25485BC5U100	1x Twin UK 13A Switched Socket
P25485BC5U200	2x Twin UK 13A Switched Sockets
P25485BC5U101	1x Twin UK 13A Switched RCD Socket
P25485BC5U201	2x Twin UK 13A Switched RCD Sockets

Other options are available. Please contact a member of our sales team for more information.

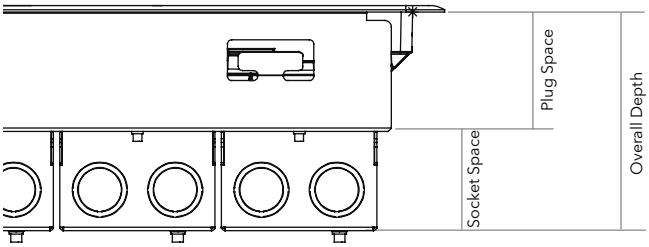
25A Series Floor Box (Separate Box Bases)

The 25A Series floor boxes are suitable for raised floor applications and are available with 3 or 4 separate compartments. The 25A Series floor boxes are designed for use in commercial environments and provide an efficient fast-fit installation with ease of access to power sockets and data.

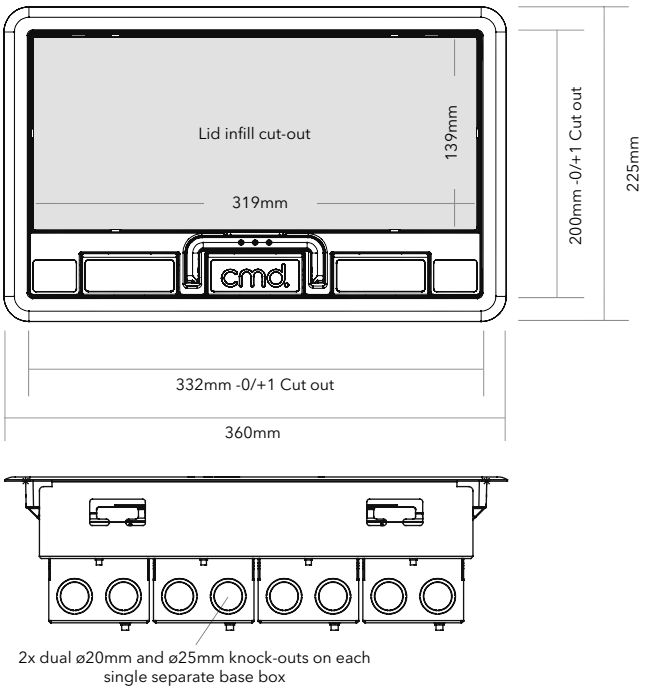
Features include:

- Designed to comply with BS EN 61534 Traffic Load Tests, and features low profile lid and non trip cable outlet brackets.
- Supplied with separate 3 or 4 compartment back boxes.
- Simple rectangular 6.5mm deep lid infill for carpet.
- A choice of three cable outlet points.
- Self closing lid.
- Robust, auto close metal handle.
- Safe touch, integrated floor fixing for quick and easy installation.
- Galvanised steel separate back boxes:
  - 3 compartment available in single or double
  - 4 compartment available in single, double and or triple
- A choice of accessory plate sizes:
  - 3 compartment: 100mm x 175mm
  - 4 compartment: 75mm x 175mm
- Can be supplied with Betatrak tap-offs pre-wired to socket outlets.
- Grey lid and trim HB rated PC-ABS





Overall Depth	Plug Space	Socket Space
85mm	27mm	47mm
100mm	41mm	47mm
115mm	56mm	47mm
130mm	71mm	47mm



Empty 25A Series Floor Box

3 Compartment

Part Number	Description	Box Type
PP25A385G	Standard 'Fast-Fit' 85mm Deep	3x Single
PP25A310G	Standard 'Fast-Fit' 100mm Deep	3x Single
PP25A311G	Standard 'Fast-Fit' 115mm Deep	3x Single
PP25A313G	Standard 'Fast-Fit' 130mm Deep	3x Single
Add Suffix KL	Option to add 2 Key Locks to a floor box lid	

4 Compartment

Part Number	Description	Box Type
PP25A485G	Standard 'Fast-Fit' 85mm Deep	4x Single
PP25A410G	Standard 'Fast-Fit' 100mm Deep	4x Single
PP25A411G	Standard 'Fast-Fit' 115mm Deep	4x Single
PP25A413G	Standard 'Fast-Fit' 130mm Deep	4x Single
Add Suffix KL	Option to add 2 Key Locks to a floor box lid	

Standard Earth Pre-wired 25A Series Floor Box

85mm deep floor box c/w 3m or 5m 32A unfused Betatrak Tap-off

3 Compartment

Part Number	Description	Box Type
3m Standard Earth White Plug		
P25A385BS3U100	1x Twin 13A UK Switched Socket	3x Single
P25A385BS3U200	2x Twin 13A UK Switched Sockets	1x Double/1x Single
P25A385BS3U101	1x Twin 13A UK Switched RCD Socket	3x Single
P25A385BS3U201	2x Twin 13A UK Switched RCD Sockets	1x Double/1x Single
5m Standard Earth White Plug		
P25A385BS5U100	1x Twin 13A UK Switched Socket	3x Single
P25A385BS5U200	2x Twin 13A UK Switched Sockets	1x Double/1x Single
P25A385BS5U101	1x Twin 13A UK Switched RCD Socket	3x Single
P25A385BS5U201	2x Twin 13A UK Switched RCD Sockets	1x Double/1x Single

4 Compartment

Part Number	Description	Box Type
3m Standard Earth White Plug		
P25A485BS3U100	1x Twin 13A UK Switched Socket	4x Single
P25A485BS3U200	2x Twin 13A UK Switched Sockets	1x Double/2x Single
P25A485BS3U101	1x Twin 13A UK Switched RCD Socket	4x Single
P25A485BS3U201	2x Twin 13A UK Switched RCD Sockets	1x Double/2x Single
5m Standard Earth White Plug		
P25A485BS5U100	1x Twin 13A UK Switched Socket	4x Single
P25A485BS5U200	2x Twin 13A UK Switched Sockets	1x Double/2x Single
P25A485BS5U101	1x Twin 13A UK Switched RCD Socket	4x Single
P25A485BS5U201	2x Twin 13A UK Switched RCD Sockets	1x Double/2x Single

Clean Earth Pre-wired 25A Series Floor Box

85mm deep floor box c/w 3m or 5m 32A unfused Betatrak Tap-off

3 Compartment

Part Number	Description	Box Type
3m Clean Earth Red Plug		
P25A385BC3U100	1x Twin UK 13A Switched Socket	3x Single
P25A385BC3U200	2x Twin UK 13A Switched Sockets	1x Double/1x Single
P25A385BC3U101	1x Twin UK 13A Switched RCD Socket	3x Single
P25A385BC3U201	2x Twin UK 13A Switched RCD Sockets	1x Double/1x Single
5m Clean Earth Red Plug		
P25A385BC5U100	1x Twin UK 13A Switched Socket	3x Single
P25A385BC5U200	2x Twin UK 13A Switched Sockets	1x Double/1x Single
P25A385BC5U101	1x Twin UK 13A Switched RCD Socket	3x Single
P25A385BC5U201	2x Twin UK 13A Switched RCD Sockets	1x Double/1x Single

4 Compartment

Part Number	Description	Box Type
3m Clean Earth Red Plug		
P25A485BC3U100	1x Twin UK 13A Switched Socket	4x Single
P25A485BC3U200	2x Twin UK 13A Switched Sockets	1x Double/2x Single
P25A485BC3U101	1x Twin UK 13A Switched RCD Socket	4x Single
P25A485BC3U201	2x Twin UK 13A Switched RCD Sockets	1x Double/2x Single
5m Clean Earth Red Plug		
P25A485BC5U100	1x Twin UK 13A Switched Socket	4x Single
P25A485BC5U200	2x Twin UK 13A Switched Sockets	1x Double/2x Single
P25A485BC5U101	1x Twin UK 13A Switched RCD Socket	4x Single
P25A485BC5U201	2x Twin UK 13A Switched RCD Sockets	1x Double/2x Single

Standard Earth Pre-wired 25A Series Separate RCD/RCBO Floor Box

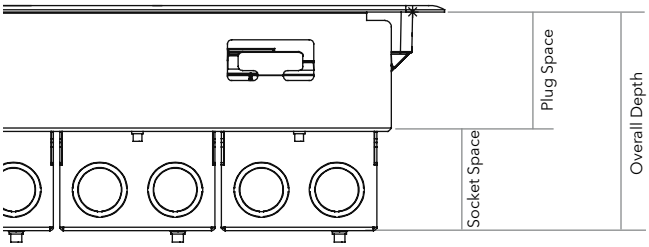
c/w 3m or 5m 32A unfused Betatrak Tap-off

The 25A Series floor box with single RCD or RCBO protection is suitable for raised floor applications and is divided in to 2 or 3 separate removeable compartments. The 25A Series floor boxes are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power sockets and data.

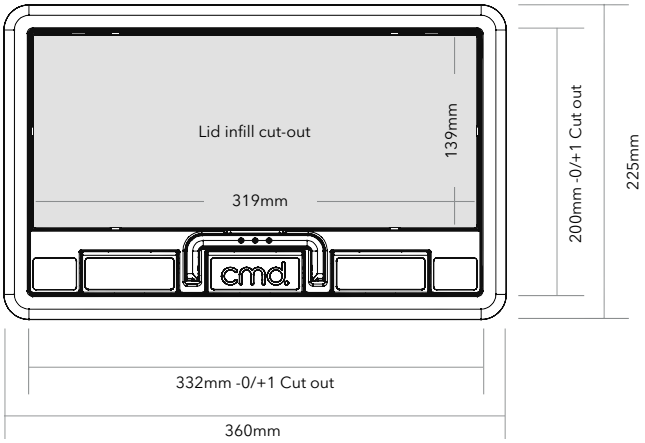
Features include:

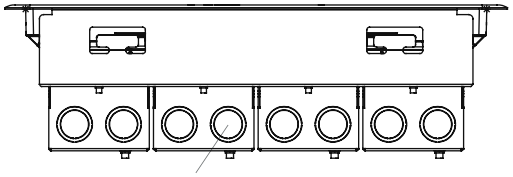
- Designed to comply with BS EN 61534 Traffic Load Tests, and features low profile lid and non trip cable outlet brackets.
- Fitted with a din rail mounted 40A RCD or 20A RCBO.
- Supplied with separate 3 or 4 compartment back boxes.
- Simple rectangular 6.5mm deep lid infill for carpet.
- A choice of three cable outlet points.
- Self closing lid.
- Robust, auto close metal handle.
- Safe touch, integrated floor fixing for quick and easy installation.
- Galvanised steel separate back boxes:
  - 3 compartment available in single or double
  - 4 compartment available in single, double and or triple
- A choice of accessory plate sizes:
  - 3 compartment: 100mm x 175mm
  - 4 compartment: 75mm x 175mm
- Can be supplied with Betatrak tap-offs pre-wired to RCD or RCBO socket outlets.
- Grey lid and trim HB rated PC-ABS





Overall Depth	Plug Space	Socket Space
95mm	27mm	47mm





Standard Earth Pre-wired 25A Series Separate RCD/RCBO Floor Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

4 Compartment

Part Number	Description	RCD/RCBO	Box Type
3m Standard Earth White Plug			
P25A495BS3U1002	1x Twin 13A UK Switched Socket	40A RCD	1x Double/1x Single
P25A495BS3U2002	2x Twin 13A UK Switched Sockets	40A RCD	1x Triple/1x Single
P25A495BS3U1003	1x Twin 13A UK Switched Socket	20A RCBO	1x Double/1x Single
P25A495BS3U2003	2x Twin 13A UK Switched Sockets	20A RCBO	1x Triple/1x Single
5m Standard Earth White Plug			
P25A495BS5U1002	1x Twin 13A UK Switched Socket	40A RCD	1x Double/1x Single
P25A495BS5U2002	2x Twin 13A UK Switched Sockets	40A RCD	1x Triple/1x Single
P25A495BS5U1003	1x Twin 13A UK Switched Socket	20A RCBO	1x Double/1x Single
P25A495BS5U2003	2x Twin 13A UK Switched Sockets	20A RCBO	1x Triple/1x Single

Clean Earth Pre-wired 25A Series Separate RCD/RCBO Floor Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

4 Compartment

Part Number	Description	RCD/RCBO	Box Type
3m Standard Earth Red Plug			
P25A495BC3U1002	1x Twin 13A UK Switched Socket	40A RCD	1x Double/1x Single
P25A495BC3U2002	2x Twin 13A UK Switched Sockets	40A RCD	1x Triple/1x Single
P25A495BC3U1003	1x Twin 13A UK Switched Socket	20A RCBO	1x Double/1x Single
P25A495BC3U2003	2x Twin 13A UK Switched Sockets	20A RCBO	1x Triple/1x Single
5m Standard Earth Red Plug			
P25A495BC5U1002	1x Twin 13A UK Switched Socket	40A RCD	1x Double/1x Single
P25A495BC5U2002	2x Twin 13A UK Switched Sockets	40A RCD	1x Triple/1x Single
P25A495BC5U1003	1x Twin 13A UK Switched Socket	20A RCBO	1x Double/1x Single
P25A495BC5U2003	2x Twin 13A UK Switched Sockets	20A RCBO	1x Triple/1x Single

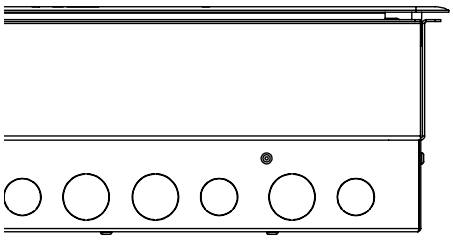
25SB Series Floor Box (Single Box Bases)

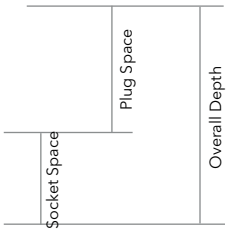
The 25SB Series floor boxes are suitable for screed floor applications and are available with either 3 or 4 compartments. The 25SB Series floor boxes are designed for use in commercial environments and provide an efficient fast-fit installation with ease of access to power sockets and data.

Features include:

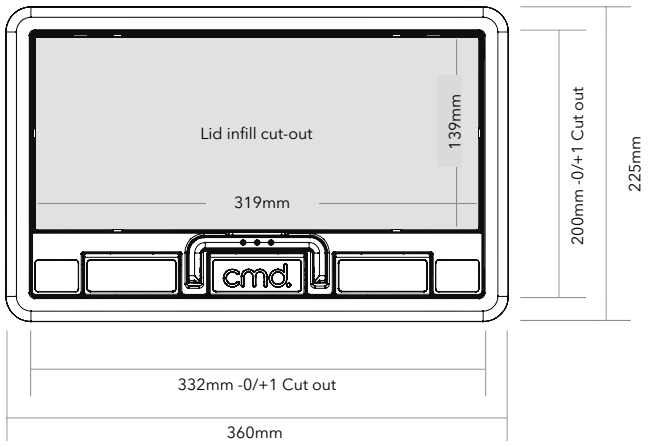
- Designed to comply with BS EN 61534 Traffic Load Tests, and features low profile lid and non trip cable outlet brackets.
- Supplied pre-built with either a 3 or 4 compartments.
- Simple rectangular 6.5mm deep lid infill for carpet.
- A choice of three cable outlet points.
- Reversible, self closing lid and cable management to aid workplace re-design.
- Robust, auto close metal handle.
- Safe touch, integrated floor fixing for quick and easy installation.
- Galvanised steel back box with adjustable, levelling feet.
- Height adjustable lid and trim to suit floor finish thickness.
- Can be supplied with Betatrak tap-offs pre-wired to socket outlets.
- A choice of accessory plate sizes:
  - 3 compartment: 100mm x 175mm
  - 4 compartment: 75mm x 175mm
- Grey lid and trim HB rated PC-ABS

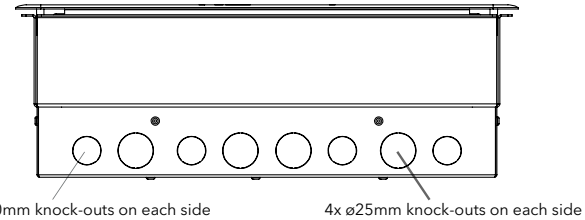






Overall Depth	Plug Space	Socket Space
85mm	36.5mm	45.3mm
100mm	49.5mm	45.3mm
115mm	64.5mm	45.3mm
130mm	79.5mm	45.3mm





Empty 25SB Series Screed Floor Box

3 Compartment

Part Number	Description	Box Type
PP25S385G	Screed Floor, 85mm Deep	N/A
PP25S310G	Screed Floor, 100mm Deep	N/A
PP25S311G	Screed Floor, 115mm Deep	N/A
PP25S313G	Screed Floor, 130mm Deep	N/A
Add Suffix KL	Option to add 2 Key Locks to a floor box lid	

4 Compartment

Part Number	Description	Box Type
PP25S485G	Screed Floor, 85mm Deep	N/A
PP25S410G	Screed Floor, 100mm Deep	N/A
PP25S411G	Screed Floor, 115mm Deep	N/A
PP25S413G	Screed Floor, 130mm Deep	N/A
Add Suffix KL	Option to add 2 Key Locks to a floor box lid	

25H Series Access Hatch

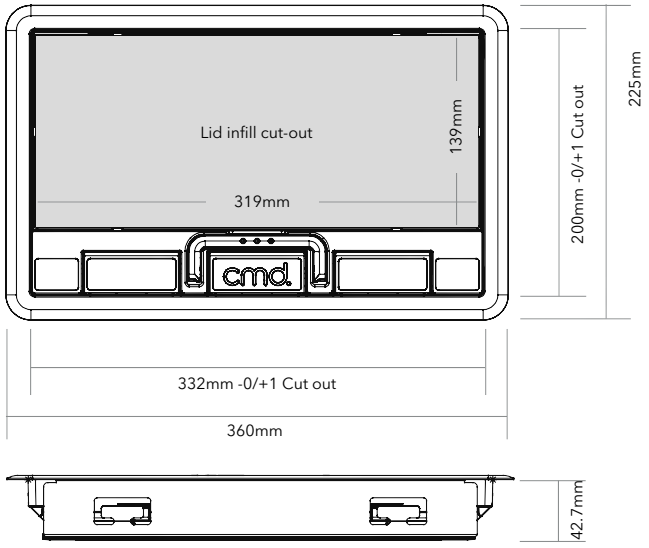
The 25H Series access hatch is suitable for raised floor applications. The 25H Series access hatch is designed for use in commercial environments and provide an efficient fast-fit installation with ease of access to underfloor power distribution systems.

Features include:

- Designed to comply with BS EN 61534 Traffic Load Tests, and features low profile lid and non trip cable outlet brackets.
- Simple rectangular 6.5mm deep lid infill for carpet.
- A choice of three cable outlet points.
- Reversible, self closing lid and cable management to aid workplace re-design.
- Robust, auto close metal handle.
- Safe touch, integrated floor fixing for quick and easy installation.
- Hatch opening size 292mm x 174mm.
- Grey lid and trim, HB rated PC-ABS'



Part Number	Description	Box Type
PP25H01G	Access Hatch	N/A
Add Suffix KL	Option to add 2 Key Locks to a floor box lid	



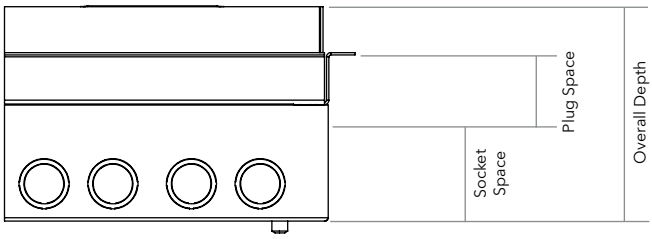
90 Series Stainless Steel Floor Box (Single Box Base)

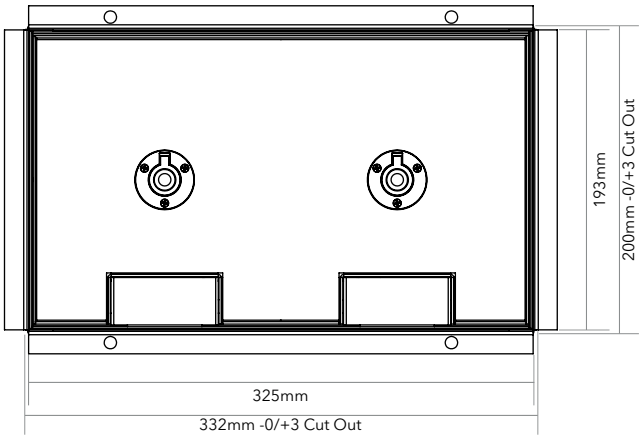
The 90 Series floor box is suitable for raised and screed floor applications and is divided in to 3 or 4 compartments. The 90 Series floor boxes are designed for use in commercial environments and provides easy access to power sockets and data.

Features include:

- One piece box base divided in to 3 or 4 compartments.
- 3 and 4 compartment boxes are the same overall size.
- Accessory plate sizes:
  - 3 compartment: 100mm x 175mm.
  - 4 compartment: 75mm x 175mm.
- 110mm standard depth (other sizes available).
- Floor boxes for raised floors are fitted by screw-fixing to the floor tile.
- Screed floor boxes come complete with jacking legs which allow 10mm final adjustment.
- Brushed stainless steel lid and tramline trim.
- Lids have a 23mm recess for a marble or stone infill.
- Galvanised steel back box and mounting frame.
- Raised floor versions can be pre-fitted with socket outlets and Betatrak Tap-off unit.
- Supplied complete with ring pull lifting handles.







Overall Depth	Plug Space	Socket Space
110mm	32mm	45mm

Empty 90 Series Floor Box

3 Compartment

Code	Description
PP90385SS/23	Raised Floor, 110mm Deep
PPS90385SS/23	Screed Floor, 110mm Deep

4 Compartment

Code	Description
PP90485SS/23	Raised Floor, 110mm Deep
PPS90485SS/23	Screed Floor, 110mm Deep

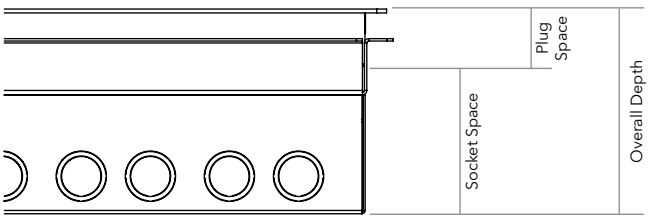
22 Series Stainless Steel Floor Box (Single Box Base)

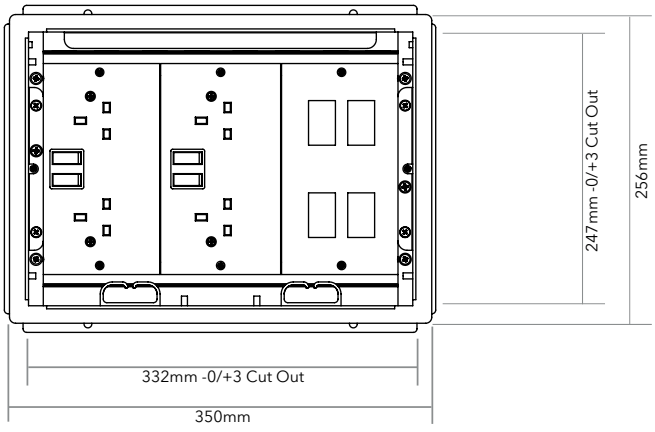
The 22 Series floor box is suitable for raised and screed floor applications and is divided in to 3 or 4 compartments. The 22 Series floor boxes are designed for use in commercial environments and provide easy access to power sockets and data.

Features include:

- One-piece box base divided in to 3 or 4 compartments.
- 3 and 4 compartment boxes are the same overall size.
- Accessory plate sizes:
  - 3 compartment: 100mm x 175mm.
  - 4 compartment: 75mm x 175mm.
- Standard depths:
  - 7mm insert lid: 96mm.
  - 13mm insert lid: 102mm.
- Floor boxes for raised floors are fitted by screw-fixing to the floor tile.
- Screed floor boxes come complete with jacking legs which allow 10mm final adjustment.
- Floor box back box supplied as a separate component for fitting before the floor finish is laid.
- Stainless steel lid and trim with two options for floor finishes up to 7mm thick and those up to 13mm thick.
- Galvanised steel back box.
- Raised floor versions can be pre-fitted with socket outlet and Betatrak Tap-off unit.







Lid Infill	Overall Depth	Plug Space	Socket Space
13mm	102mm	35mm	45mm
7mm	96mm	35mm	45mm

22 Series Floor Box Specification Guide

Lid and Trim Assemblies

Please select a stainless steel lid and trim with either a 7mm lid insert or a 13mm lid insert.



Note:
- All stainless steel lid and trim assemblies are supplied packaged separately to the back box to ensure that the stainless steel parts are protected from damage prior to installation.
- 1 lid and trim assembly and 1 back box is required for each complete floor box and must be ordered separately.

Floor Box Back Boxes

Please select from our comprehensive range of galvanised steel back boxes that allow installation in raised floors or screeded floors:



Note:
- All back boxes are supplied packaged separately to the stainless steel lid and trim to ensure that the stainless steel parts are protected from damage prior to installation and so that the back box can be installed before the finished floor surface is fitted.
- All back boxes are supplied with the following:
  - A pre-attached fixing collar that allows screw fixing of the back box to a raised floor or is used as the guide as to where the back box should sit in relation to the top of the floor screed.
  - 3 strong galvanised steel blanking plates that prevent tripping before the stainless steel lid and trim assembly is installed when the finished floor is fitted. These blanks are removed before the trim is fitted:



- Raised floor versions can be pre-fitted with socket outlet and Betatrak Tap-off unit.
- 1 lid and trim assembly and 1 back box is required for each complete floor box and must be ordered separately.

Empty 22 Series Floor Box

NB: 1 lid and trim and 1 back box is required for each complete floor box.

Stainless Steel Lid and Trims

Code	Description
PPS9022SS/7	22 Series Stainless Steel Lid and Trim with 7mm Lid Insert
PPS9022SS/13	22 Series Stainless Steel Lid and Trim with 13mm Lid Insert

3 Compartment Empty Back Boxes

Code	Description
PP223SS60	60mm Deep Raised Floor Back Box
PP22S3SS60	60mm Deep Screed Floor Back Box

4 Compartment Empty Back Boxes

Code	Description
PP224SS60	60mm Deep Raised Floor Back Box
PP22S4SS60	60mm Deep Screed Floor Back Box

Standard Earth Pre-wired 22 Series Floor Box Back Boxes

c/w 3m or 5m 32A unfused Betatrak Tap-off

NB: 1 lid and trim and 1 back box is required for each complete floor box – please select the relevant lid and trim from the list above.

3 Compartment

Code	Description
3m Standard Earth White Plug	
P22S3BS3U1000	1x Twin 13A Switched Socket
P22S3BS3U2001	2x Twin 13A Switched Sockets
P22S3BS3U1004	1x Twin 13A Switched RCD Socket
P22S3BS3U2005	2x Twin 13A Switched RCD Sockets
5m Standard Earth White Plug	
P22S3BS5U1002	1x Twin 13A Switched Socket
P22S3BS5U2003	2x Twin 13A Switched Sockets
P22S3BS5U1006	1x Twin 13A Switched RCD Socket
P22S3BS5U2007	2x Twin 13A Switched RCD Sockets

4 Compartment

Code	Description
3m Standard Earth White Plug	
P22S4BS3U1032	1x Twin 13A Switched Socket
P22S4BS3U2033	2x Twin 13A Switched Sockets
P22S4BS3U1036	1x Twin 13A Switched RCD Socket
P22S4BS3U2037	2x Twin 13A Switched RCD Sockets
5m Standard Earth White Plug	
P22S4BS5U1034	1x Twin 13A Switched Socket
P22S4BS5U2035	2x Twin 13A Switched Sockets
P22S4BS5U1038	1x Twin 13A Switched RCD Socket
P22S4BS5U2039	2x Twin 13A Switched RCD Sockets

Clean Earth Pre-wired 22 Series Floor Box Back Boxes

c/w 3m or 5m 32A unfused Betatrak Tap-off

NB: 1 lid and trim and 1 back box is required for each complete floor box – please select the relevant lid and trim from the list above.

3 Compartment

Code	Description
3m Clean Earth Red Plug	
P22S3BC3U1008	1x Twin 13A Switched Socket
P22S3BC3U2009	2x Twin 13A Switched Sockets
P22S3BC3U1012	1x Twin 13A Switched RCD Socket
P22S3BC3U2013	2x Twin 13A Switched RCD Sockets
5m Clean Earth Red Plug	
P22S3BC5U1010	1x Twin 13A Switched Socket
P22S3BC5U2011	2x Twin 13A Switched Sockets
P22S3BC5U1014	1x Twin 13A Switched RCD Socket
P22S3BC5U2015	2x Twin 13A Switched RCD Sockets

4 Compartment

Code	Description
3m Clean Earth Red Plug	
P22S4BC3U1040	1x Twin 13A Switched Socket
P22S4BC3U2041	2x Twin 13A Switched Sockets
P22S4BC3U1044	1x Twin 13A Switched RCD Socket
P22S4BC3U2045	2x Twin 13A Switched RCD Sockets
5m Clean Earth Red Plug	
P22S4BC5U1042	1x Twin 13A Switched Socket
P22S4BC5U2043	2x Twin 13A Switched Sockets
P22S4BC5U1046	1x Twin 13A Switched RCD Socket
P22S4BC5U2047	2x Twin 13A Switched RCD Sockets

23 Series Slab Box Power Distribution

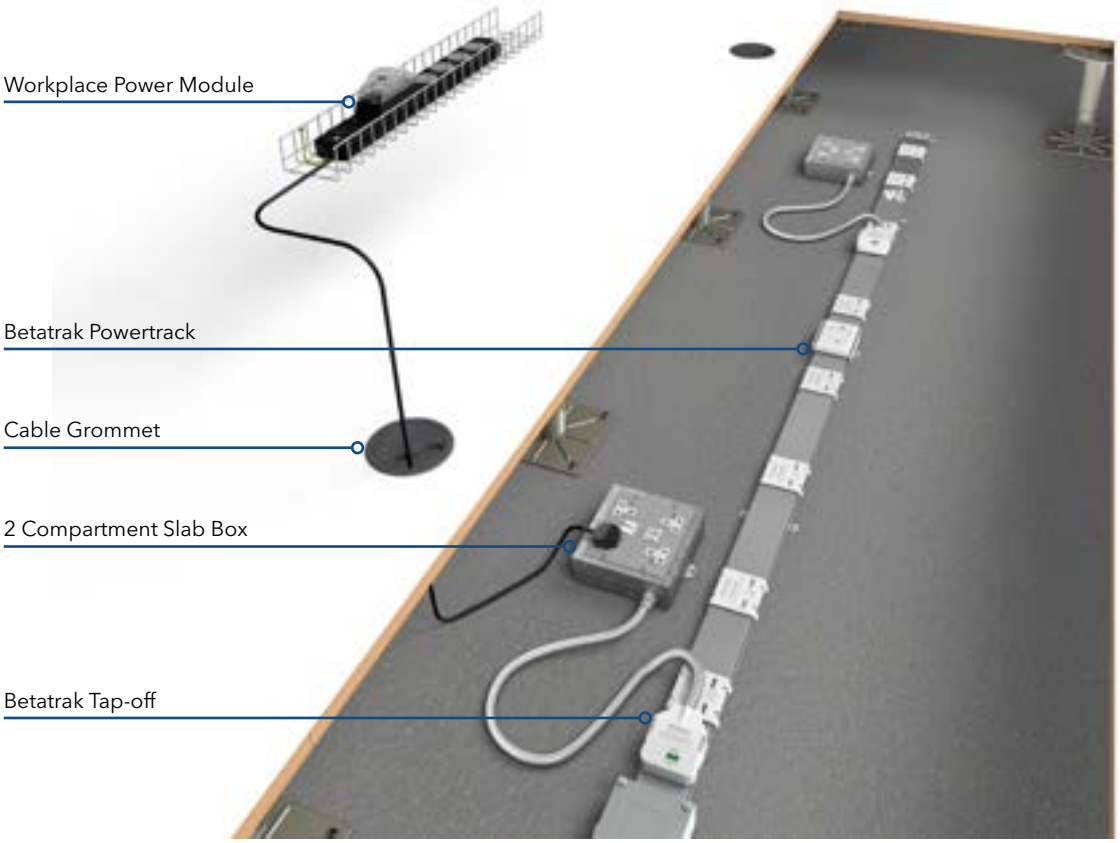
CMD Ltd's 23 Series Slab Box is a power distribution system installed under a commercial office raised floor. There are four slab box variants available, designed to provide a straightforward on site installation. When used in conjunction with our range of floor grommets it is an alternative to a floor box providing ease of access to power sockets and data.

The benefits of using a CMD 23 Series Slab Box:

- Multiple options available designed to meet your specification requirements.
- Manufactured to comply with BS 5733 General requirements for electrical accessories.
- All slab boxes for raised floors can be pre-wired with a Betatrak Tap-off for ease of installation.

Features of a 23 Series Slab Box:

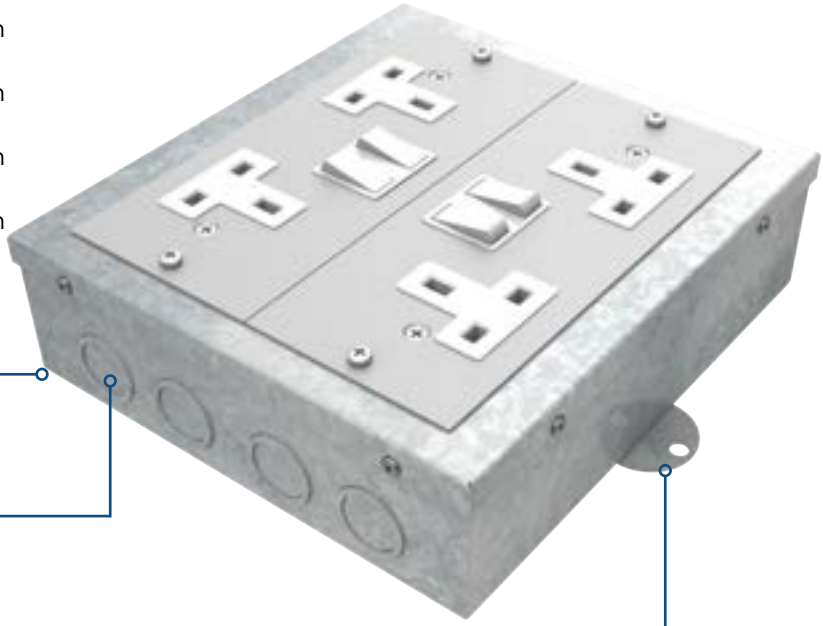
- Supplied with retractable fixing feet.
- Complete with 20/25mm knockouts on two sides.
- Multiple compartment slab boxes are supplied with circuit segregation dividers fitted.
- Manufactured from 0.9mm galvanised steel.
- One and three compartment slab boxes use 3 Compartment size accessory plates.
- Two and four compartment slab boxes use 4 Compartment size accessory plates.



23 Series Slab Box Power Distribution

Dimensions:

- 1 Compartment: 143mm x 200mm x 60mm deep.
- 2 Compartment: 182mm x 200mm x 60mm deep.
- 3 Compartment: 332mm x 200mm x 60mm deep.
- 4 Compartment: 332mm x 200mm x 60mm deep.



23 Series 1 Compartment Slab Box



23 Series 2 Compartment Slab Box



23 Series 3 Compartment Slab Box



23 Series 4 Compartment Slab Box

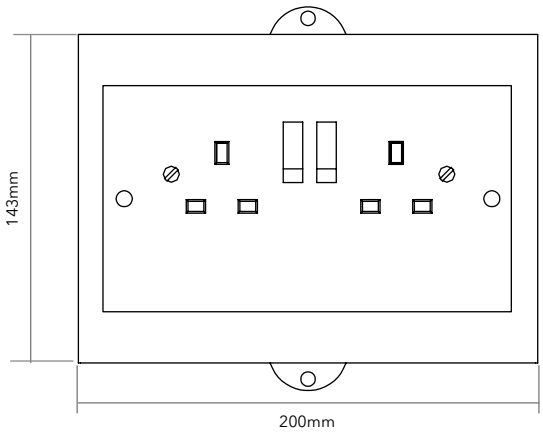


23 Series 1 Compartment Slab Box

Features include:

- Retractable fixing feet.
- Can be used in conjunction with our floor grommets.
- Overall dimension 143 x 200 x 60mm deep.
- The box base has 20mm and 25mm conduit knockouts.
- The box base is manufactured from galvanised steel.
- This slab box utilises 3 compartment plates.







Note: The slab box height does not include the socket plates.

Empty 23 Series Slab Box

1 Compartment

Code	Description
PPS2315OS	60mm Deep c/w Retractable Fixing Feet

Standard Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

1 Compartment

Code	Description
P2315OS/BS3U100	1x Twin Switched Socket, 3m Standard Earth White Plug
P2315OS/BS5U102	1x Twin Switched Socket, 5m Standard Earth White Plug

Clean Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

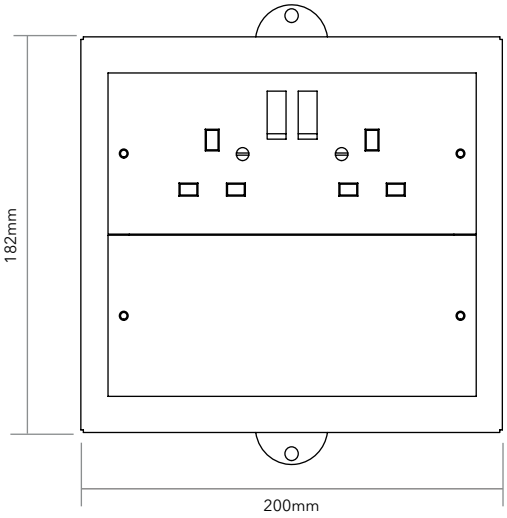
Code	Description
P2315OS/BC3U105	1x Twin Switched Socket, 3m Clean Earth Red Plug
P2315OS/BC5U107	1x Twin Switched Socket, 5m Clean Earth Red Plug

23 Series 2 Compartment Slab Box

Features include:

- Retractable fixing feet.
- Can be used in conjunction with our floor grommets.
- Overall dimension 182 x 200 x 60mm deep.
- The box base has 20mm and 25mm conduit knockouts.
- The box base is manufactured from galvanised steel.
- This slab box utilises 4 compartment plates.
- Dividers are provided to separate services.







Note: The slab box height does not include the socket plates.

Empty 23 Series Slab Box

2 Compartment

Code	Description
PPS2325OS	60mm Deep c/w Retractable Fixing Feet

Standard Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

2 Compartment

Code	Description
P2325OS/BS3U100	1x Twin Switched Socket, 3m Standard Earth White Plug
P2325OS/BS3U200	2x Twin Switched Sockets, 3m Standard Earth White Plug
P2325OS/BS5U100	1x Twin Switched Socket, 5m Standard Earth White Plug
P2325OS/BS5U200	2x Twin Switched Sockets, 5m Standard Earth White Plug

Clean Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

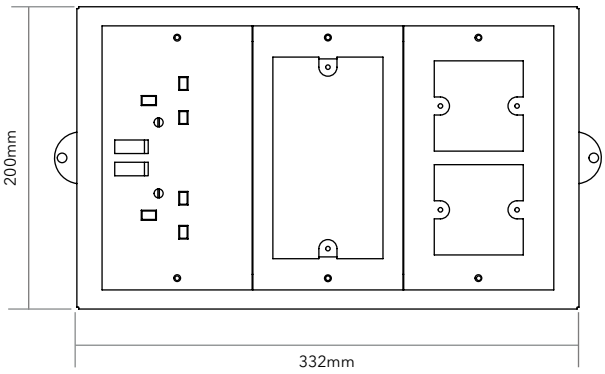
Code	Description
P2325OS/BC3U100	1x Twin Switched Socket, 3m Clean Earth Red Plug
P2325OS/BC3U200	2x Twin Switched Sockets, 3m Clean Earth Red Plug
P2325OS/BC5U100	1x Twin Switched Socket, 5m Clean Earth Red Plug
P2325OS/BC5U200	2x Twin Switched Sockets, 5m Clean Earth Red Plug

23 Series 3 Compartment Slab Box

Features include:

- Retractable fixing feet.
- Can be used in conjunction with our floor grommets.
- Overall dimension 332 x 200 x 60mm deep.
- The box base has 20mm and 25mm conduit knockouts.
- The box base is manufactured from galvanised steel.
- This slab box utilises 3 compartment plates.
- Dividers are provided to separate services.







Note: The slab box height does not include the socket plates.

Empty 23 Series Slab Box

3 Compartment

Code	Description
PPS2335OS	60mm Deep c/w Retractable Fixing Feet

Standard Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

3 Compartment

Code	Description
P2335OS/BS3U100	1x Twin Switched Socket, 3m Standard Earth White Plug
P2335OS/BS3U200	2x Twin Switched Sockets, 3m Standard Earth White Plug
P2335OS/BS5U100	1x Twin Switched Socket, 5m Standard Earth White Plug
P2335OS/BS5U200	2x Twin Switched Sockets, 5m Standard Earth White Plug

Clean Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

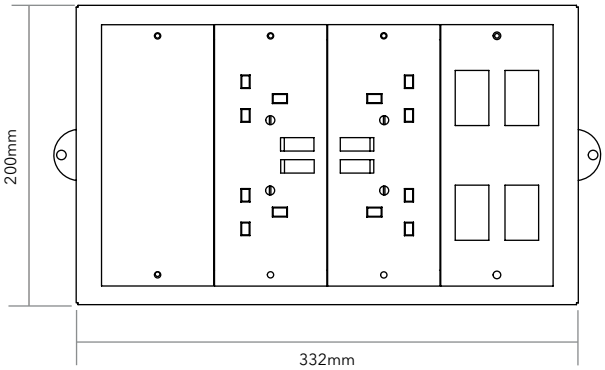
Code	Description
P2335OS/BC3U100	1x Twin Switched Socket, 3m Clean Earth Red Plug
P2335OS/BC3U200	2x Twin Switched Sockets, 3m Clean Earth Red Plug
P2335OS/BC5U100	1x Twin Switched Socket, 5m Clean Earth Red Plug
P2335OS/BC5U200	2x Twin Switched Sockets, 5m Clean Earth Red Plug

23 Series 4 Compartment Slab Box

Features include:

- Retractable fixing feet.
- Can be used in conjunction with our floor grommets.
- Overall dimension 332 x 200 x 60mm deep.
- The box base has 20mm and 25mm conduit knockouts.
- The box base is manufactured from galvanised steel.
- This slab box utilises 4 compartment plates.
- Dividers are provided to separate services.







Note: The slab box height does not include the socket plates.

Empty 23 Series Slab Box

4 Compartment

Code	Description
PPS2345OS	60mm Deep c/w Retractable Fixing Feet

Standard Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

4 Compartment

Code	Description
P2345OS/BS3U100	1x Twin Switched Socket, 3m Standard Earth White Plug
P2345OS/BS3U200	2x Twin Switched Sockets, 3m Standard Earth White Plug
P2345OS/BS5U100	1x Twin Switched Socket, 5m Standard Earth White Plug
P2345OS/BS5U200	2x Twin Switched Sockets, 5m Standard Earth White Plug

Clean Earth Pre-Wired Slab Box

c/w 3m or 5m 32A unfused Betatrak Tap-off

Code	Description
P2345OS/BC3U100	1x Twin Switched Socket, 3m Clean Earth Red Plug
P2345OS/BC3U200	2x Twin Switched Sockets, 3m Clean Earth Red Plug
P2345OS/BC5U100	1x Twin Switched Socket, 5m Clean Earth Red Plug
P2345OS/BC5U200	2x Twin Switched Sockets, 5m Clean Earth Red Plug

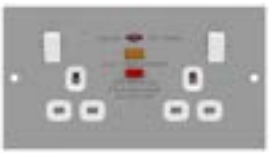
3 Compartment Accessory Plates

Select from our wide range of serviced power and unserviced data options. Accessory plates are common to most ranges - one piece, individual, screed and stainless steel floor boxes and slab floor boxes.

Plate sizes - 100mm x 175mm. For use in floor boxes and slab boxes with 1 or 3 compartments.



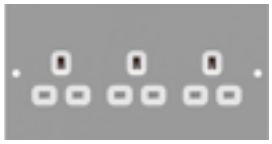
Code	Description
PCP301A	Twin Switched Socket Outlet



Code	Description
PP3291A	Twin RCD Socket Outlet



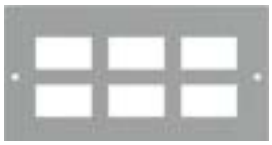
Code	Description
PCP30032	Twin Unswitched Socket Outlet



Code	Description
PCP3003	Triple Unswitched Socket



Code	Description
PV304	4x No. RJ45 (37mm x 22.3mm)



Code	Description
PV342	6x No. RJ45 (37mm x 22.3mm)



Code	Description
PDV3301	4x No. Angled RJ45



Code	Description
PM307	Plate pierced to accept 1x No. 2 Gang Standard BS1363 outlet



Code	Description
PV311	Plate pierced to accept 2x No. 1 Gang Standard BS1363 outlet



Code	Description
PB306	Blank Plate



Code	Description
PX6804	Euromod snap in double adaptor collar



Code	Description
PD331	Plate pierced to accept 2x Euromod Collars (not supplied)

3 Compartment Accessory Plates

Accessory plates shown are the most widely specified but other options are available.

Code	Description	Pictured
PCP301A	Twin Switched Socket Outlet	✓
PP3291A	Twin RCD Socket Outlet	✓
PCP301C	Clean Earth Twin Switched Socket Outlet - Red Plate	-
PP3291C	Clean Earth Twin RCD Socket Outlet - Red Plate	-
PCP30032	Twin Unswitched Socket Outlet	✓
PCP30032C	Clean Earth Twin Unswitched Socket Outlet - Red Plate	-
PCP3003	Triple Unswitched Socket Outlet	✓
PCP3003C	Clean Earth Triple Unswitched Socket Outlet - Red Plate	-
PP301N	Twin Switched Socket Outlet Non-Standard - Wandsworth	-
PV304	4x No. RJ45 (37mm x 22.3mm)	✓
PDV3301	4x No. Angled RJ45	✓
PV342	6x No. RJ45 (37mm x 22.3mm)	✓
PX3210	White LJU6C size blank data cover	-
PM307	Plate Pierced to Accept 1x No. 2 - Gang Standard BS1363 Outlet	✓
PV311	Plate Pierced to Accept 2x No. 1 - Gang Standard BS1363 Outlet	✓
PD331	Plate Pierced to Accept 2x Euromod Collars (not supplied)	✓
PX6804	Euromod Snap in Double Adaptor Collar	✓
PD3316	Angled Plate Pierced to Accept 2x Euromod Collars (not supplied)	-
PB306	Blank Plate	✓

Consideration is required when configuring power and data plates as the design of the associated leads, plugs and sockets can vary depending on the manufacturer. This may cause the cables to clash and/or prevent the floor box lid from closing. For further information, please discuss with a member of our sales team.

4 Compartment Accessory Plates

Select from our wide range of serviced power and unserviced data options, 4 compartment range for single box base, separate box base, screed and stainless floor boxes, and slab boxes, 75mm wide.

Plate sizes - 75mm x 175mm. For use in floor boxes and slab boxes with 2 or 4 compartments.



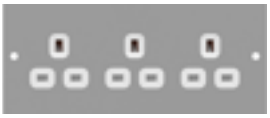
Code	Description
PCP401A	Twin Switched Socket Outlet



Code	Description
PP4291A	Twin RCD Socket Outlet



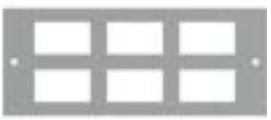
Code	Description
PCP40032A	Twin Unswitched Socket Outlet



Code	Description
PCP403	Triple Unswitched Socket Outlet



Code	Description
PV404	4x No. RJ45 (37mm x 22.3mm)



Code	Description
PV442	6x No. RJ45 (37mm x 22.3mm)



Code	Description
PDV4301	4x No. Angled RJ45



Code	Description
PB406	Blank Plate



Code	Description
PD431	2x No. Euro Adapter collars (50 x 50)



Code	Description
PX6804	Euromod snap in double adaptor collar

4 Compartment Accessory Plates

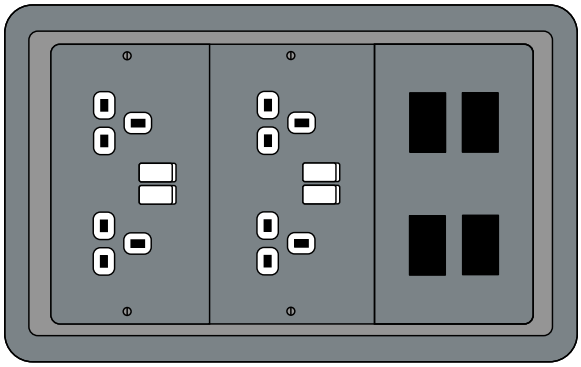
Accessory plates shown are the most widely specified but other options are available.

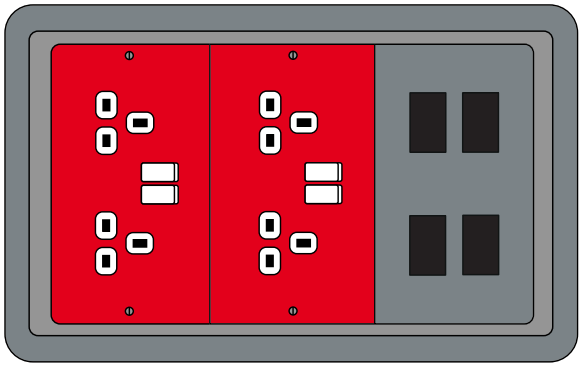
Code	Description	Pictured
PCP401A	Twin Switched Socket Outlet	✓
PP4291A	Twin RCD Socket Outlet	✓
PCP401C	Clean Earth Twin Switched Socket Outlet - Red Plate	-
PP4291C	Clean Earth Twin RCD Socket Outlet - Red Plate	-
PCP40032	Twin Unswitched Socket Outlet	✓
PCP40032C	Clean Earth Twin Unswitched Socket Outlet - Red Plate	-
PCP403	Triple Unswitched Socket Outlet	✓
PCP403C	Clean Earth Triple Unswitched Socket Outlet - Red Plate	-
PP401N	Twin Switched Socket Outlet - Non-standard Wandsworth	-
PV404	4x No. RJ45 (37mm x 22.3mm)	✓
PDV4301	4x No. Angled RJ45	✓
PV442	6x No. RJ45 (37mm x 22.3mm)	✓
PX3210	White LJU6C Size Blank Data Cover	-
PD431	2x No. Euro Adapter Collars (50 x 50)	✓
PX6804	Euromod Snap in Double Adaptor Collar	✓
PD4316	Angled Plate Pierced to Accept 2x Euromod Collars (not supplied)	-
PB406	Blank Plate	✓

Consideration is required when configuring power and data plates as the design of the associated leads, plugs and sockets can vary depending on the manufacturer. This may cause the cables to clash and/or prevent the floor box lid from closing. For further information, please discuss with a member of our sales team.

3 Compartment and 4 Compartment Accessory Plate Colours

All Standard Earth power plates are finished in textured matt grey paint (RAL7004).
All Clean Earth power plates are supplied painted textured matt red (RAL3001).
All Blank and all Data plates are finished in textured matt grey paint (RAL7004).

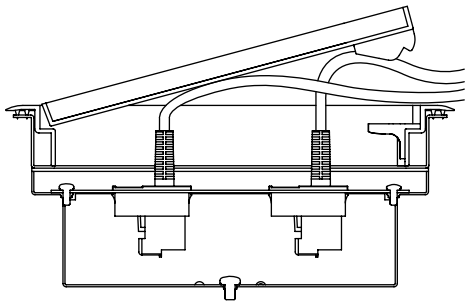




Guidance on Installing Data Plates in Floor Boxes

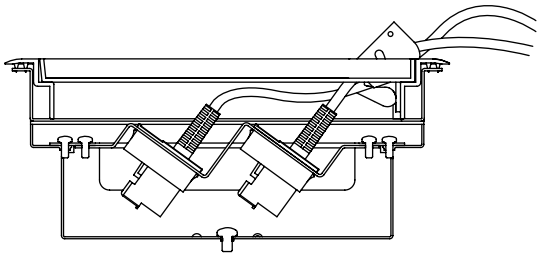
Data installation guidance.

Due to the differing data cable bend radii specifications a standard flat data plate may not always be suitable. This is because it may not allow the floor box lid to be closed with the outgoing data cables installed.

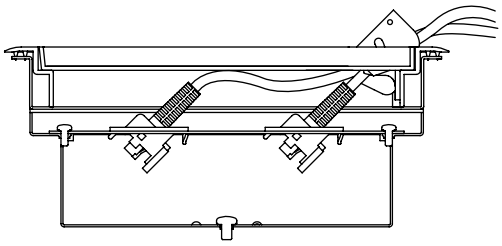


Possible solutions:

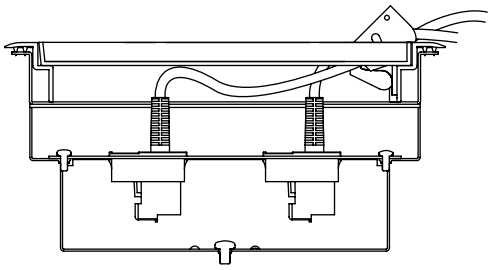
1. Use an angled data plate.



2. Use a flat data plate with angled data sockets.



3. Use a deeper floor box with additional plug top space.



Note: CMD's angled plates are only available with 4 data cut outs. A 6 data cut out flat plate is available if required.

Note: The standard 45mm deep back box on each floor box is suitable for Cat6a but this is subject to the cable manufacturers specification as large diameter cables may require extra space in the back box. Floor boxes with extra back box space are available.

Floor Box Spares

25, 25A and 25SB Series Floor Box and 25H Series Access Hatch



Code	Description
PPS2501G	Lid and Trim Assembly



Code	Description
240816	Cable outlet bracket - Set of 3



Code	Description
PPB4310	Cable guide - single

Code	Description
25, 25A, 25SB and 25H Floor Box Spares	
PPS2501G	Lid and Trim Assembly
PPS2501G2KL	Lid and Trim Assembly - 2 Key Locks
240816	Cable outlet bracket - Set of 3
PPB4310	Cable guide - single

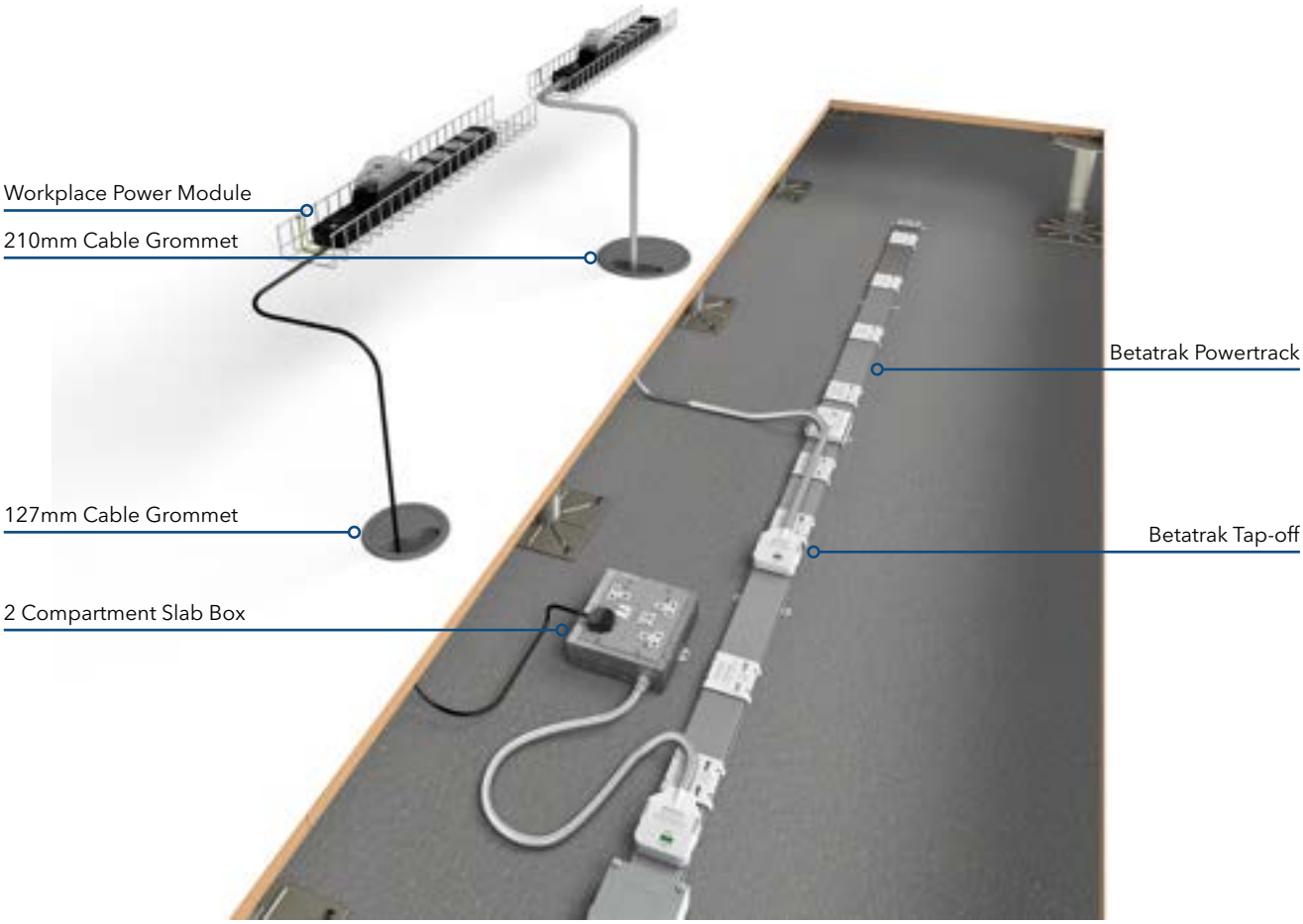
Cable Grommet Power Distribution

CMD Ltd offer two sizes of cable grommets. They are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and data services that are contained within or pass through a raised floor. The cable grommets available are:

- 23 Series 127mm diameter cut out (140mm overall diameter).
- 23 Series 210mm diameter cut out (230mm overall diameter).

The benefits of using a CMD cable grommet:

- Multiple options available designed to meet your specification requirements.
- Designed to comply with BS EN 61534-22 Traffic Load Tests.
- Low profile Cable Hive surround to reduce the risk of tripping as per BS EN 61534-22 Powertrack systems. Particular requirements for powertrack systems intended for onfloor or underfloor installation, section 9.
- Can be installed in seconds without the use of tools.



Stainless Steel Cable Grommets

CMD's Stainless Steel Grommet is an elegant, premium quality floor-access solution that allows you to connect seamlessly with your underfloor power distribution system.

It has been designed for use in high-end commercial environments and is suitable for raised floor applications. It can be installed in a range of flexible and efficient configurations that permit safe and easy access to power and data services within the floor void.

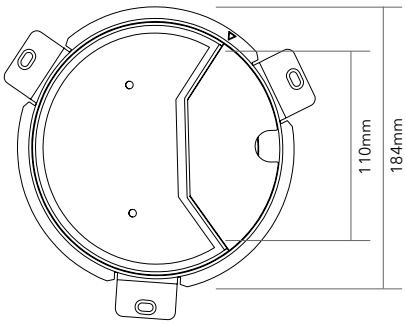
Features include:

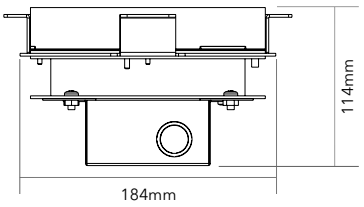


1. High quality brushed stainless steel finish.
2. Available in two grommet structures:
   - Flanged trim with flush lid (featuring rotatable cover).
   - Tramline' trim with recessed lid (to accept floor-covering infill).
3. Configurable with a range of under-floor options:
   - Pass-through access grommet.
   - Connectivity 'Hive' with a range of socket outlet options - unwired.
   - Connectivity 'Hive' - pre-wired with a range of tap-off options.
4. Suits a range of floor covering thicknesses:
   - 7mm
   - 10mm
   - 13mm
   - 17mm
   - 23mm
5. Modular construction permits two-stage installation. I.e., highly finished on-floor grommet elements can be installed at a later stage following the under-floor installation.

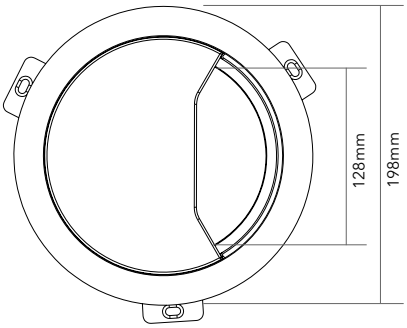


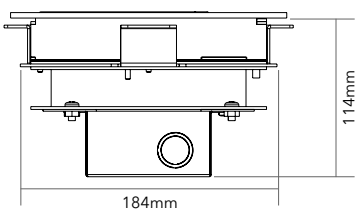
Tramline Trim with Recessed Lid Grommet





Flanged Trim with Flush Lid Grommet:





Please note that the maximum depth of the SS Grommet will vary depending on the specification and the size of the cut out in the raised floor is different to the cut out in the final floor covering.

Stainless Steel Cable Grommet

Example Grommet Installation:



1. First Fix – the mount ring is mounted in the floor via a ø185mm cut-out (-0mm +3mm).

2. Second Fix – to prevent damage the stainless steel lid and trim are to be installed when the finished floor is fitted.

Note that the cut out size in the finished floor is ø170mm.

Once fitted the lid can be removed to allow access to power and data or to allow cables and/or conduits to pass through from the floor void.

Stainless Steel Grommet Part Codes

Description	Part Numbers (Floor Thickness 7mm - 23mm)				
	7mm	10mm	13mm	17mm	23mm
Stainless Steel Grommets.					
Flush Lid / Flanged Trim	PSSG00F	PSSG00F	PSSG00F	PSSG00F	PSSG00F
Recessed Lid / Tramline Trim	PSSG07R	PSSG10R	PSSG13R	PSSG17R	PSSG23R
Recessed Lid / Tramline Trim incl Entry Cover	PSSG07RC	PSSG10RC	PSSG13RC	PSSG17RC	PSSG23RC
Floor Mount Kits.					
Pass-Through Floor Mount Kit	PSSG07MK	PSSG10MK	PSSG13MK	PSSG17MK	PSSG23MK
Floor Hives. Single 5A Socket.					
Unwired	PSSG07H01	PSSG10H01	PSSG13H01	PSSG17H01	PSSG23H01
For configurations with pre-wired tap-offs, please contact our sales team to discuss your specific requirements.					
Floor Hives. Single Switched Socket & RCD.					
Unwired	PSSG07H05	PSSG10H05	PSSG13H05	PSSG17H05	PSSG23H05
For configurations with pre-wired tap-offs, please contact our sales team to discuss your specific requirements.					
Floor Hives. Twin Un-switched Socket.					
Unwired	PSSG07H06	PSSG10H06	PSSG13H06	PSSG17H06	PSSG23H06
For configurations with pre-wired tap-offs, please contact our sales team to discuss your specific requirements.					
Optional Accessories.					
Grommet Entry Cover	PSSG00A02	PSSG00A02	PSSG00A02	PSSG00A02	PSSG00A02
Mount Ring Spacer - 1mm	PSSG00A05	PSSG00A05	PSSG00A05	PSSG00A05	PSSG00A05
Mount Ring Spacer - 2mm	PSSG00A06	PSSG00A06	PSSG00A06	PSSG00A06	PSSG00A06

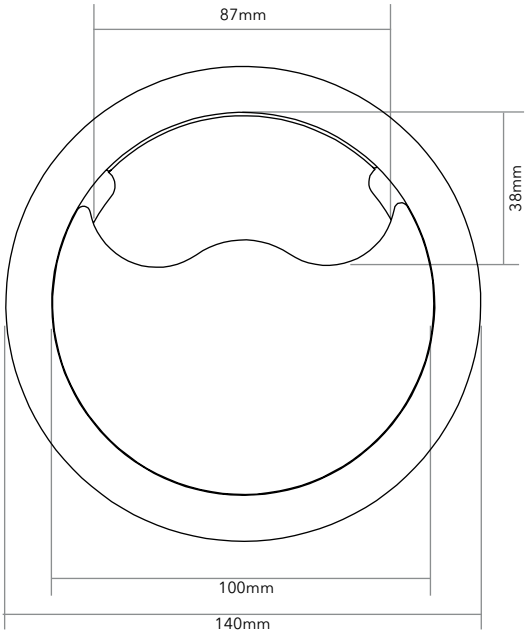
Cable Grommet (127mm Cut Out)

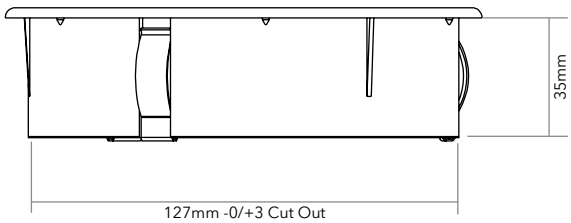
The 23 Series cable grommet is suitable for raised floor applications. The 23 series cable grommets are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and or data services within the floor void.

Features include:

- Push down, tool free fixing mechanism for fast-fit on site installation.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Lid has integral carpet gripper spikes.
- Rotatable lid provides several outlet options including a single large slot.
- Low profile surround.
- Can accommodate up to 4x 20mm or 3x 25mm diameter conduits
- Recommended for installation in light traffic areas.







Code	Description
PCFG235G	127mm Grommet

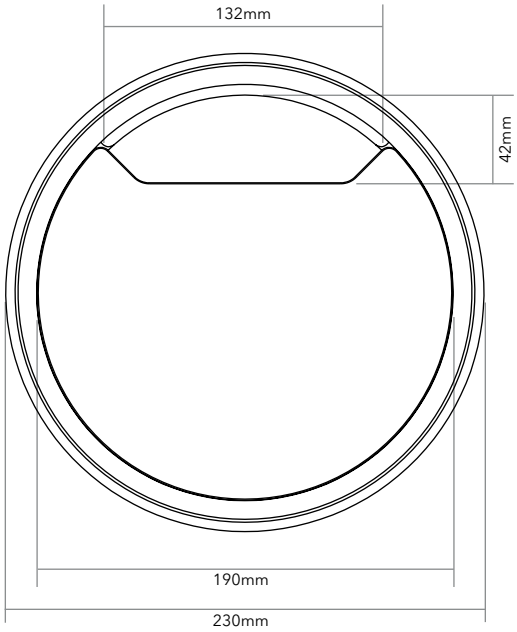
Cable Grommet (210mm Cut Out)

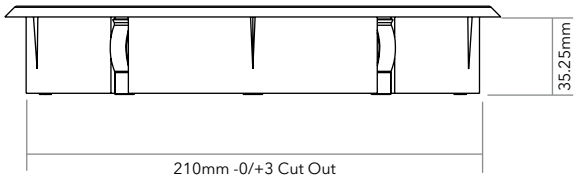
The 23 Series cable grommet is suitable for raised floor applications. The 23 Series cable grommets are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and/or data services within or passing through a raised floor.

Features include:

- Push down, tool free fixing mechanism for fast-fit on site installation.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Lid has integral carpet gripper spikes.
- Rotatable lid provides several outlet options including a single large slot or three apertures.
- Low profile surround.
- Can accommodate up to 8x 20mm or 5x 25mm diameter conduits.
- Recommended for installation in light traffic areas.







Code	Description
PCFG238G	210mm Grommet

Cable Hive Power Distribution

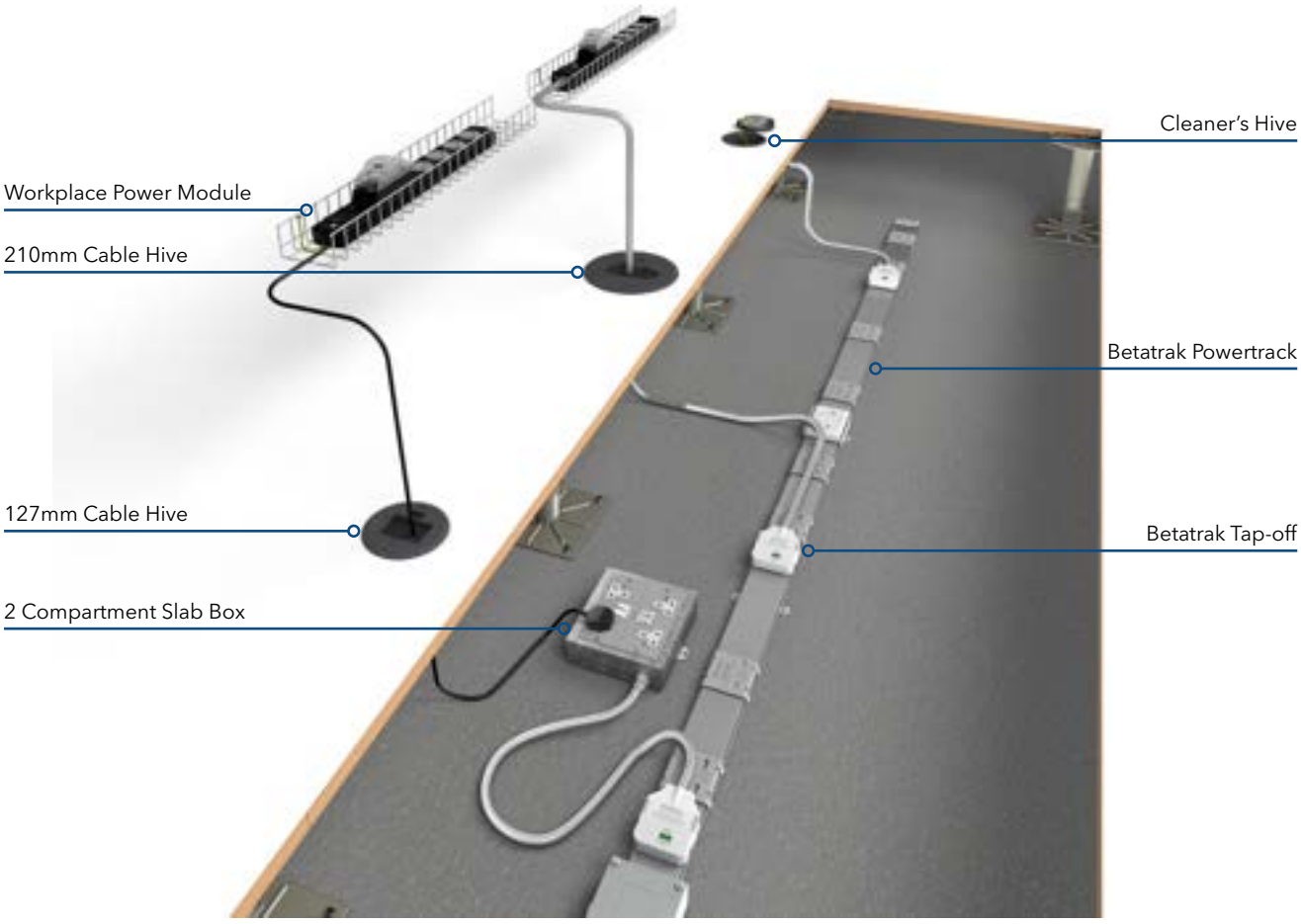
CMD Ltd offer two sizes of Cable Hive. They are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and data services that are contained within or pass through a raised floor. The Cable Hives available are:

- 26 Series 127mm diameter cut out (140mm overall diameter).
- 21 Series 210mm diameter cut out (230mm overall diameter).

The 26 and 21 Series fast-fit Cable Hives are suitable for raised floor applications.

The benefits of using a CMD Cable Hive:

- Multiple options available designed to meet your specification requirements.
- Designed to comply with BS EN 61534-22 Powertrack systems. Particular requirements for powertrack systems intended for onfloor or underfloor installation Traffic Load Tests.
- Cable Hives fitted with power sockets can be pre-wired with a Betatrak Tap-off for ease of installation.
- Low profile Cable Hive surround to reduce the risk of tripping as per BS EN 61534-22.
- Installed in seconds with no tools required.
- Carpet can be fitted into a 6.5mm recess in the versions with the tray lid.



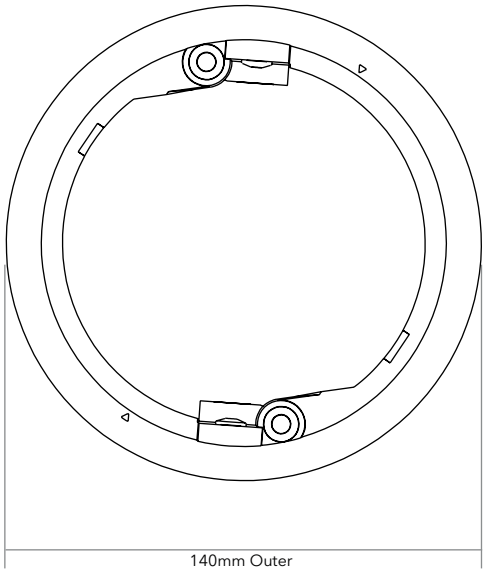
Cable Hive (127mm Cut Out)

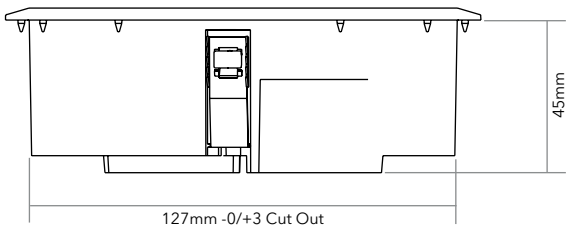
The 26 Series cable Hive is suitable for raised floor applications. The 26 Series cable Hive are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and data services that are contained within or pass through a raised floor.

Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can accommodate multiple metal conduits (see table).
- Recommended for installation in light traffic areas.







Code	Description
PPHC261G	40mm Height Standard Cable Hive

Cleaner's Hive (127mm Cut Out)

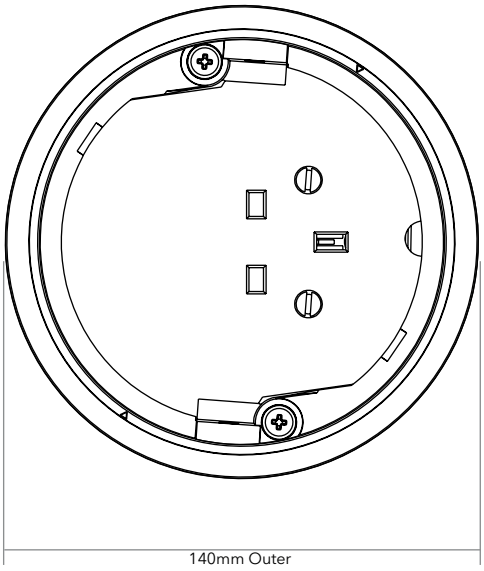
The 26 Series cleaner's Hive is suitable for raised floor applications. The 26 Series cleaner's Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

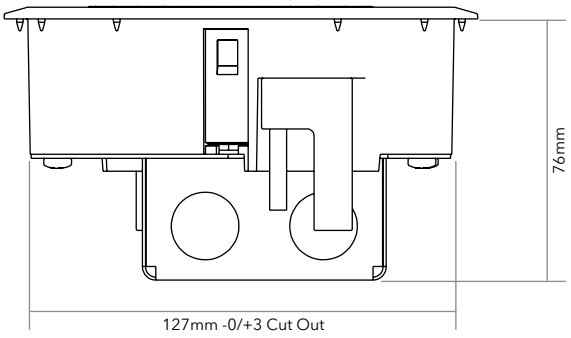
Features include:

- Screw operated fixing clamps.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Lid with 6.5mm recess for carpet.
- Self-closing lifting handle.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPH263G	76mm Height Cleaners Hive with 1x Unswitched Socket for On-site Wiring
PPH263G/001	PPH263G Wired with a 3m 32A Unfused Standard Earth Tap-off
PPH263G/002	PPH263G Wired with a 5m 32A Unfused Standard Earth Tap-off

Code	Description
PPH263G/009	PPH263G Wired with a 3m 32A Unfused Clean Earth Tap-off
PPH263G/010	PPH263G Wired with a 5m 32A Unfused Clean Earth Tap-off
PPH263G/SW/87	87mm Height Standard Cleaner's Hive with 1x Switched Socket for On-site Wiring

Note: Clean earth cleaner's Hives wired as L, N & E only.

RCD Protected Cleaner's Hive (127mm Cut Out)

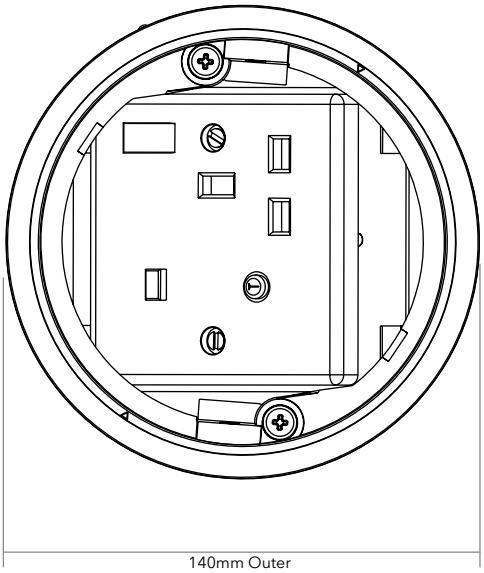
The 26 Series RCD protected cleaner's Hive is suitable for raised floor applications. The 26 Series RCD protected cleaner's Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

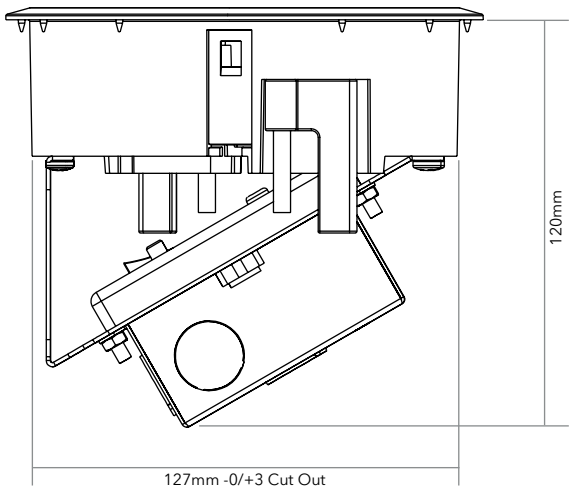
Features include:

- Screw operated fixing clamps.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Lid with 6.5mm recess for carpet.
- Self-closing lifting handle.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.

Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).







Code	Description
PPH263G/RCD/A	120mm Height Cleaners Hive with 1x RCD Socket for On-site Wiring
PPH263G/015	PPH263G/RCD/A Wired with a 3m 32A Unfused Standard Earth Tap-off
PPH263G/007	PPH263G/RCD/A Wired with a 5m 32A Unfused Standard Earth Tap-off

Code	Description
PPH263G/014	PPH263G/RCD/A Wired with a 3m 32A Unfused Clean Earth Tap-off
PPH263G/043	PPH263G/RCD/A Wired With a 5m 32A Unfused Clean Earth Tap-off

Note: Clean earth Power Hives wired as L, N & E only.

Power Hive (127mm Cut Out)

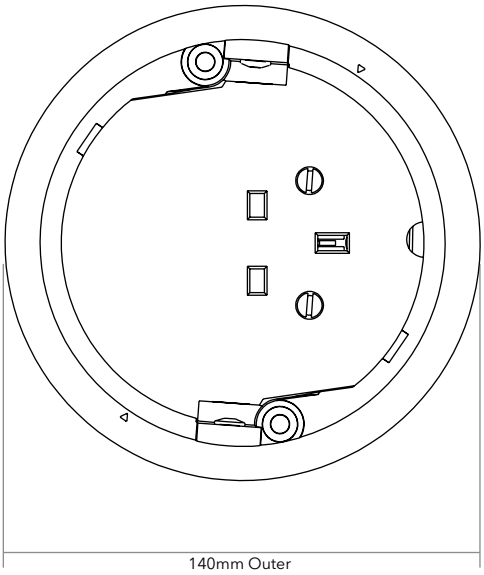
The 26 Series power Hive is suitable for raised floor applications. The 26 Series power Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

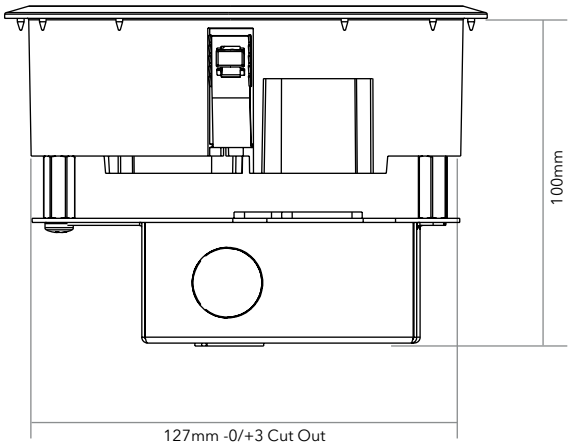
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPHC265G	100mm Height Power Hive with 1x Un-switched Socket for On-site Wiring
PPHC265G/001	PPHC265G Wired with a 3m 32A Unfused Standard Earth Tap-off
PPH127098	PPHC265G Wired with a 5m 32A Unfused Standard Earth Tap-off

Code	Description
PPHC265G/5M	100mm Height Power Hive with 1x Un-Switched 5A Socket for On-site Wiring
PPHC265G/004	PPHC265G Wired with a 3m 32A Unfused Clean Earth Tap-off
PPHC265G/004	PPHC265G Wired with a 5m 32A Unfused Clean Earth Tap-off

Note: Clean earth cleaner's Hives wired as L, N & E only.

RCD Protected Power Hive (127mm Cut Out)

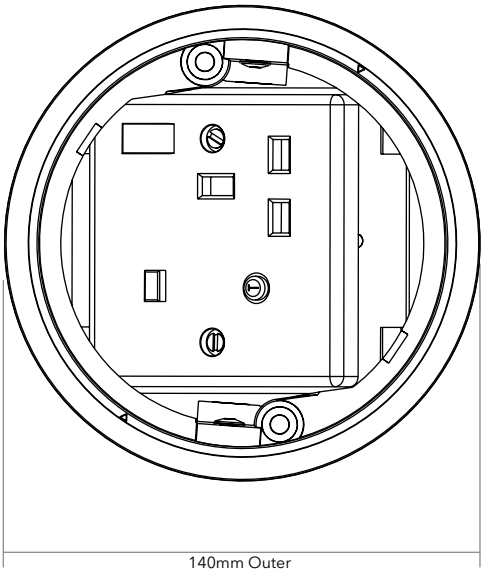
The 26 Series RCD protected power Hive is suitable for raised floor applications. The 26 Series RCD protected power Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

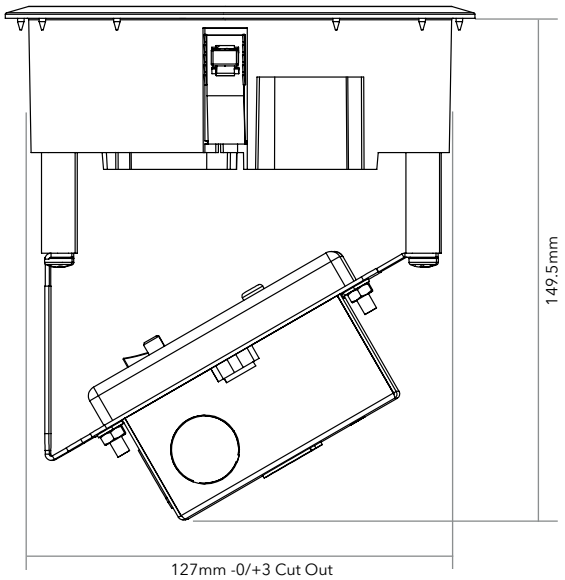
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.

Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).







Code	Description
PPHC265G/RCD/A	150mm Height Power Hive with 1x RCD Socket for On-site Wiring
CH26139298	PPHC265G/RCD/A Wired with a 3m 32A Unfused Standard Earth Tap-off
CH2698585	PPHC265G/RCD/A Wired with a 5m 32A Unfused Standard Earth Tap-off

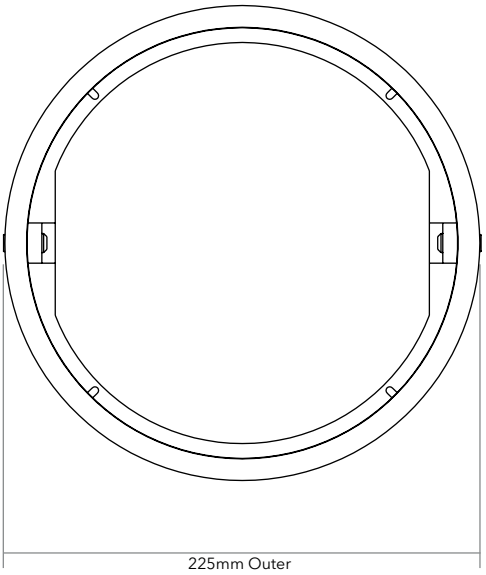
Cable Hive (210mm Cut Out)

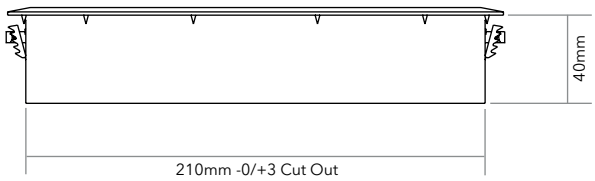
The 21 Series cable Hive is suitable for raised floor applications. The 21 Series cable Hive are designed for use in commercial environments and provide an efficient fast-fit on site installation and ease of access to power and data services that are contained within or pass through a raised floor.

Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can accommodate multiple metal conduits (see table).
- Recommended for installation in light traffic areas.







Code	Description
PPGC211G	40mm Height Large Cable Hive

Maximum number of conduits when lid is in place.

- 16x 16mm Conduit
- 9x 20mm Conduit
- 5x 25mm Conduit
- 3x 32mm Conduit

Power Hive (210mm Cut Out)

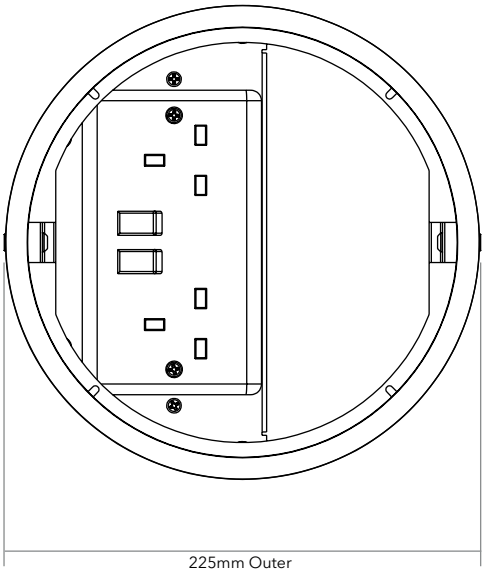
The 21 Series power Hive is suitable for raised floor applications. The 21 Series power Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

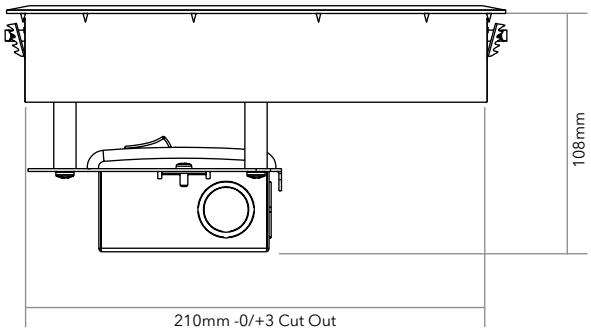
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPGC212G	108mm Height Large Power Cable Hive with Twin 13A Switched Socket

RCD Protected Power Hive (210mm Cut Out)

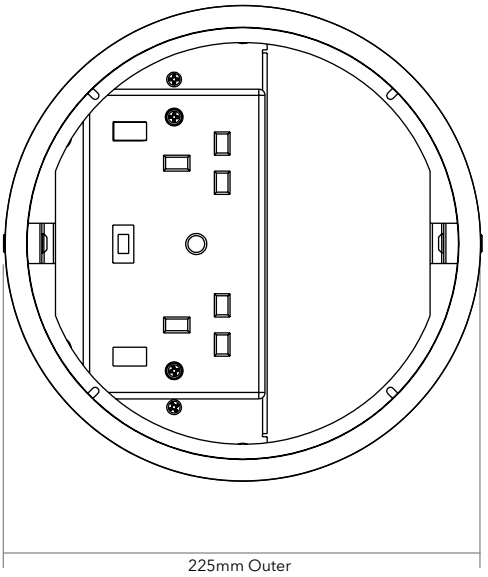
The 21 Series RCD protected power Hive is suitable for raised floor applications. The 21 Series RCD protected power Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

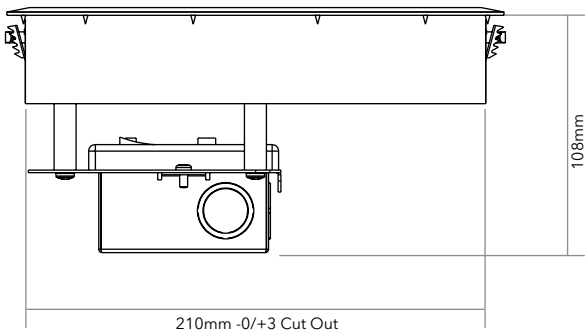
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Split lid with soft foam inserts.
- Self-closing lifting handles.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPGC212G/RCD	108mm Height Large Power Cable Hive with Twin 13A Switched RCD Socket

Data Cable Hive (210mm Cut Out)

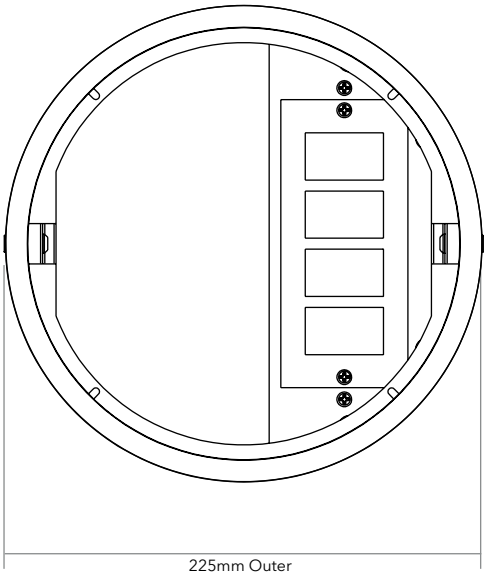
The 21 Series Data Cable Hive is suitable for raised floor applications. The 21 Series Data Cable Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

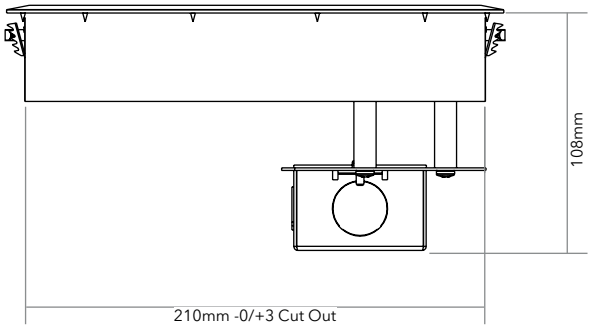
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Self-closing lifting handle.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPGC214G	108mm Height Large Data Cable Hive with 4x RJ45 Cut Outs

Power and Data Cable Hive (210mm Cut Out)

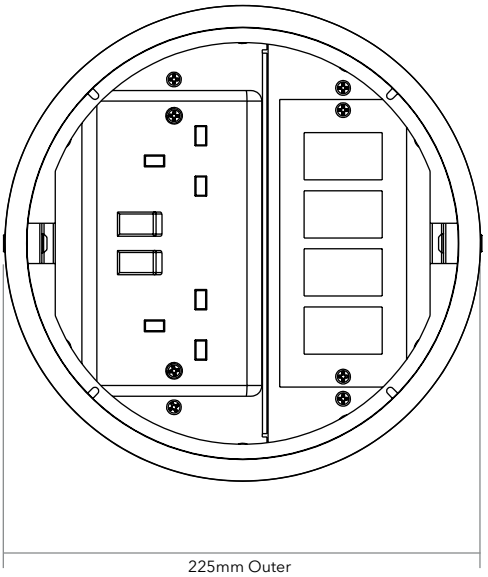
The 21 Series Power and Data Cable Hive is suitable for raised floor applications. The 21 Series Power and Data Cable Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

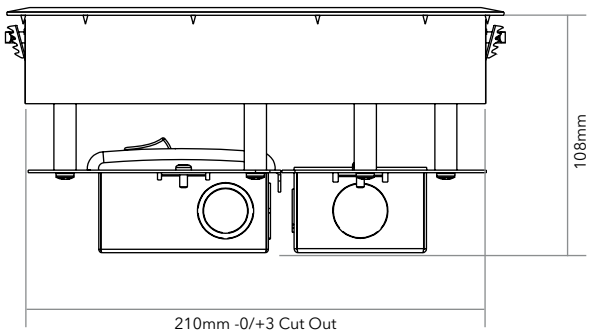
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Self-closing lifting handle.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





Code	Description
PPGC215G	108mm Height Large Power/Data Cable Hive with Twin 13A Switched Socket and 4x RJ45 Cut Outs

RCD Protected Power and Data Cable Hive (210mm Cut Out)

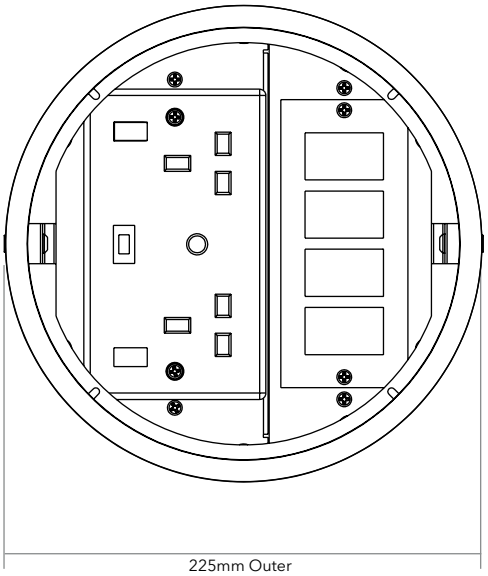
The 21 Series RCD Protected Power and Data Cable Hive is suitable for raised floor applications. The 21 Series RCD Protected Power and Data Cable Hives are designed for use in commercial environments and provide an efficient fast-fit on site installation.

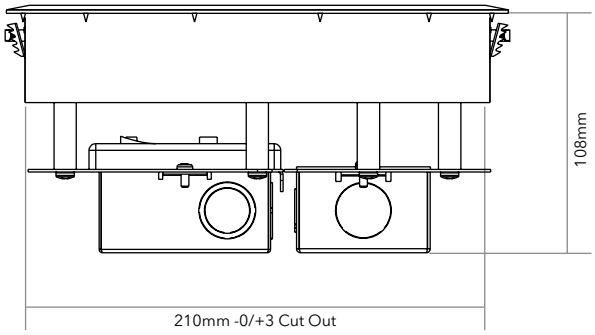
Features include:

- Push down, tool free fixing mechanism.
- Grey RAL7031 lid and trim V0 rated PC/ABS.
- Integral carpet gripper spikes pre-fitted to the trim.
- Self-closing lifting handle.
- Low profile surround.
- Can be pre-fitted with a Betatrak Tap-off unit.
- Recommended for installation in light traffic areas.



Note: All Standard Earth power plates are finished in textured matt grey paint (RAL7004).





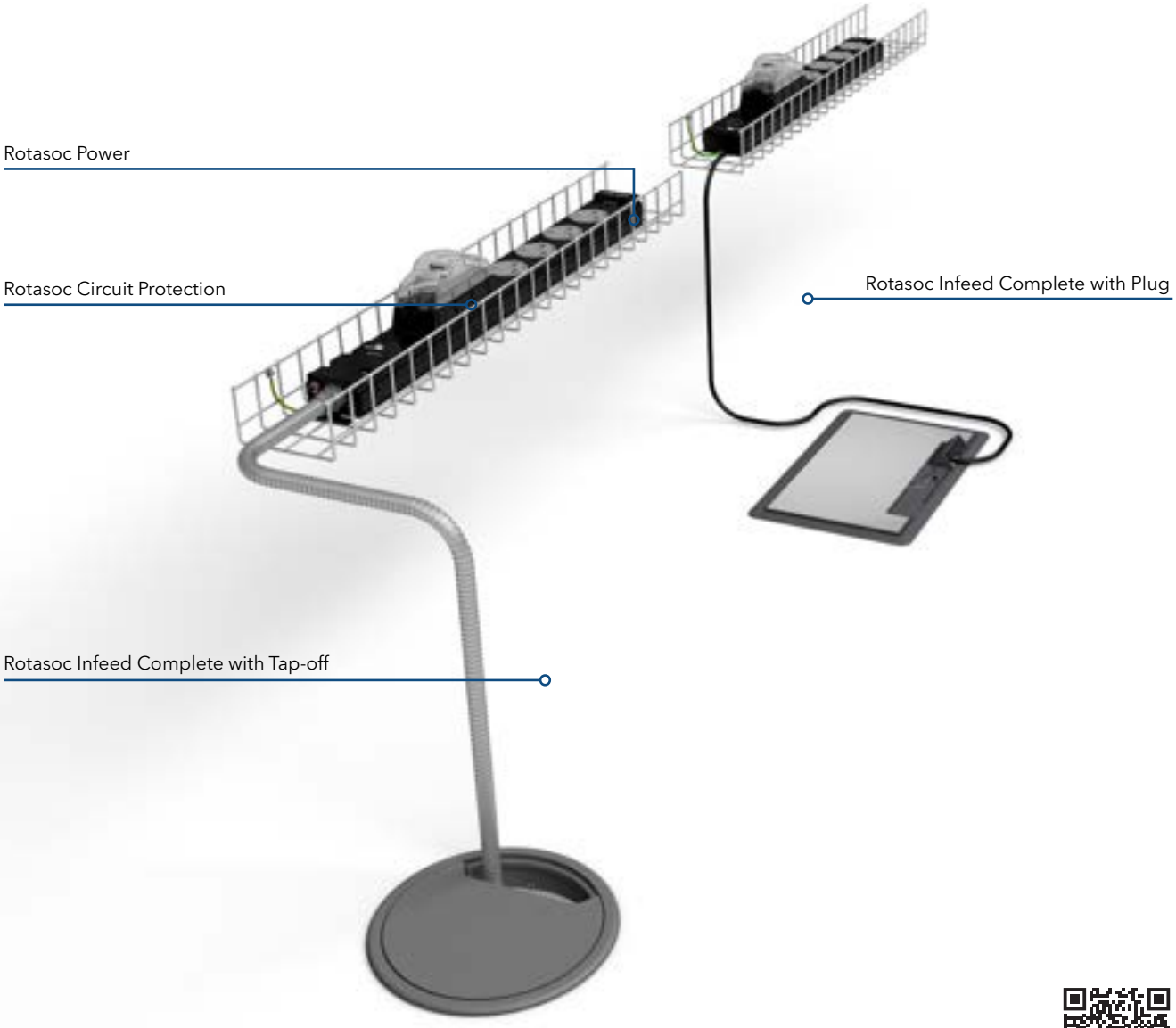
Code	Description
PPGC215G/RCD	108mm Height Large Power/Data Cable Hive with Twin 13A Switched RCD Socket and 4x RJ45 Cut Outs

Rotasoc® Modular Power System

Rotasoc is a modular and reconfigurable workplace power system that allows compliance with BS 7671 Requirements for electrical installations or BS 6396 Electrical systems in furniture - specification. Rotasoc is BSI Kitemark accredited and is tested every six months.

Rotasoc can cater for Standard and Clean Earth (C/E) low noise systems and provides complete flexibility to your workstation layout. Available in both 32A and 16A versions Rotasoc has uniquely designed socket modules with 32A internal busbars that do not require internal wiring, offering unlimited 360 degree socket rotation.

Rotasoc has an intuitive, quick, and simple "fast-fit" installation method that reduces on-site labour costs.



Please scan the barcode to view our Rotasoc animation.

Rotasoc® Technical Information

Benefits and Features

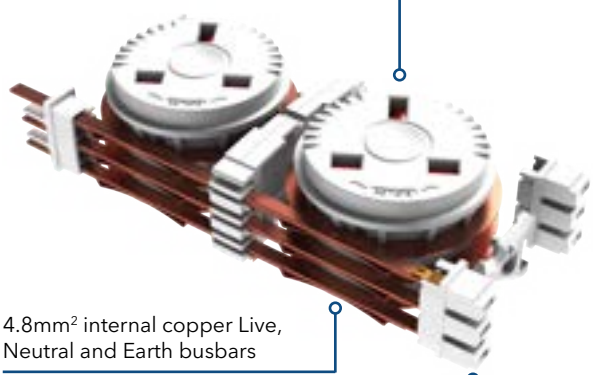
The benefits of using CMD's Rotasoc:

- A comprehensive range of interchangeable modules.
- Ultrasonically sealed units.
- Fast-fit modular system.
- Socket modules allow unlimited socket rotation due to busbar.
- Lever latching for secure connection between modules.
- Concealed screw fixings.

Features:

Standard Earth

Unlimited rotation



4.8mm² internal copper Live, Neutral and Earth busbars

Colour coded and keyed connections to prevent different system from being connected

Clean Earth (C/E) Low Noise

4.8mm² internal copper Live, Neutral and Clean Earth busbars

Unlimited rotation

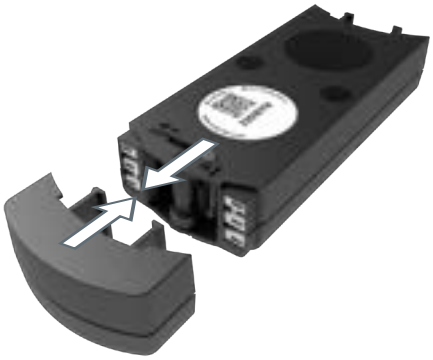


Colour coded and keyed connections to prevent different system from being connected

Rotasoc Latching System



1. On the rear face, release the lever with a suitable tool.



2. Connect the male and female ends together. Both ends must be colour matched.

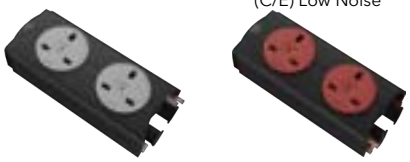


3. Once connected, push back the lever so it sits flush with the surface to lock modules together.

Rotasoc® Specification Guide

STEP 1

Begin by choosing your Rotasoc system type.



STEP 2

Choose power input option:
1. Tap-off.
2. UK plug.
3. Neutrik.
4. Rewireable.



STEP 3

If a circuit protection device is required choose from:
1. Fuse.
2. MCB.
3. RCD.
4. RCBO.



STEP 4

Choose a combination of the following socket modules depending on the total number of sockets required:
1. 2 Gang.
2. 3 Gang.
3. 4 Gang.



STEP 5a

If no further power connections are needed, add an end cap to complete your Rotasoc system.



STEP 5b

If a power connection to an on desk workplace module is needed, choose from our range of 16A interconnection modules.



Choose from our ranges of on desk workplace modules.

STEP 5c

If a power connection to an additional workstation is needed, choose from our range of 32A and 16A interconnection modules.



Return to Step 4 to choose sockets for the additional workstation(s).

Rotasoc® Example Layouts

Layout 1
Single desk: 13A UK plug feeding 4 gang module.



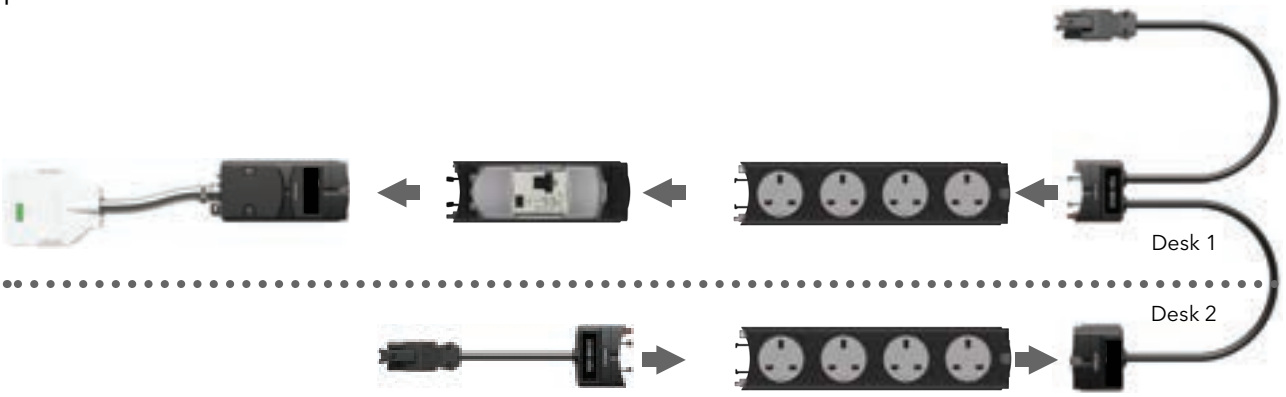
Layout 2
Single desk: Betatrak Tap-off plug feeding 4 gang module.



Layout 3
Single desk: Betatrak Tap-off plug feeding 4 gang module with feed for on desk power.



Layout 4
Multiple desks: Betatrak Tap-off plug feeding 4 gang modules with feeds for on desk power.

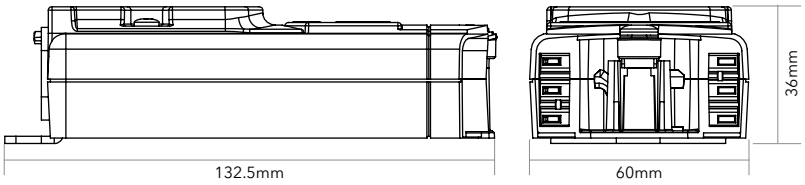


Rotasoc® Infeed

Rotasoc infeed modules allow connectivity from small power distribution to a workstation. Available in both 32A and 16A versions and can cater for Standard and Clean Earth (C/E) low noise systems.

32A Infeed



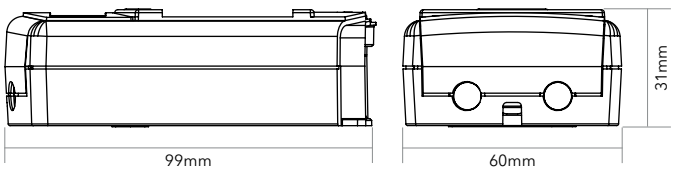


Code	32A Infeed Modules Standard Earth
RAB301	32A Rewirable Infeed
RAB111	32A Infeed c/w 3m 32A Unfused Betatrak Tap-off
RAB112	32A Infeed c/w 5m 32A Unfused Betatrak Tap-off
RAB113	32A Infeed c/w 3m 13A Fused Betatrak Tap-off
RAB114	32A Infeed c/w 5m 13A Fused Betatrak Tap-off

Code	32A Infeed Modules Clean Earth
RAC301	32A Rewirable Infeed
RAC111	32A Infeed c/w 3m 32A Unfused Betatrak Tap-off
RAC112	32A Infeed c/w 5m 32A Unfused Betatrak Tap-off
RAC113	32A Infeed c/w 3m 13A Fused Betatrak Tap-off
RAC114	32A Infeed c/w 5m 13A Fused Betatrak Tap-off

16A Infeed





Code	16 Infeed Modules Standard Earth
RAB201	16A Rewirable Infeed
RAB003	16A Infeed c/w 3m Lead and 13A BS 1363 Plug
RAB005	16A Infeed c/w 5m Lead and 13A BS 1363 Plug

Code	16 Infeed Modules Clean Earth
RAC201	16A Rewirable Infeed
RAC003	16A Infeed c/w 3m Lead and 13A BS 1363 Plug
RAC005	16A Infeed c/w 5m Lead and 13A BS 1363 Plug

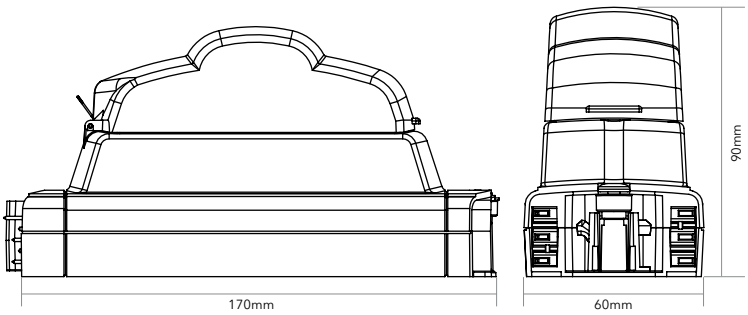
Note: Rotasoc® is also available as a Dual System. Please call our sales team for more information.

Rotasoc® Circuit Protection

Rotasoc circuit protection modules available in both 32A and 16A versions and can cater for Standard and Clean Earth (C/E) low noise systems.

RCD/MCB/RCBO Protection



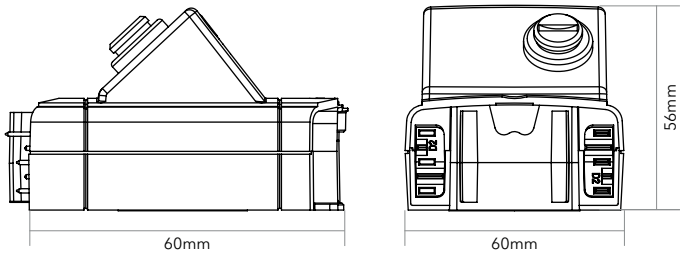


Code	Protection Modules Standard Earth
RAB405	32A 30mA RCD
RAB420	16A MCB Type C
RAB450	16A 30mA RCBO Type C
RAB460	20A 30mA RCBO Type C
RAB470	32A 30mA RCBO Type C

Code	Protection Modules Clean Earth
RAC405	32A 30mA RCD
RAC420	16A MCB Type C
RAC450	16A 30mA RCBO Type C
RAC460	20A 30mA RCBO Type C
RAC470	32A 30mA RCBO Type C

Fused Protection





Code	Switched/Fused Protection Modules Standard Earth
RAB401	BS1362 13A Fuse
RAB402	BS1362 13A Fuse and LED Switch
RAB403	BS1362 13A Fuse and LED Indicator

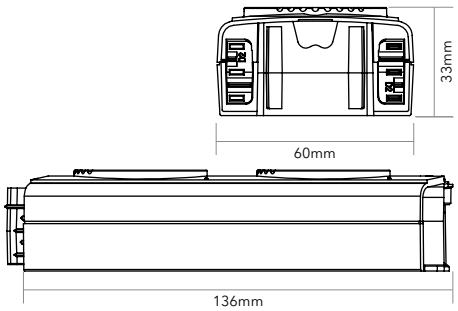
Code	Switched/Fused Protection Modules Clean Earth
RAC401	BS1362 13A Fuse
RAC402	BS1362 13A Fuse and LED Switch
RAC403	BS1362 13A Fuse and LED Indicator

Note: Rotasoc® is also available as a Dual System. Please call our sales team for more information.

Rotasoc® Power Modules

Rotasoc socket modules are uniquely designed with 32A internal busbars that do not require internal wiring and offering unlimited 360^0 socket rotation. The socket modules can cater for Standard and Clean Earth (C/E) low noise systems.

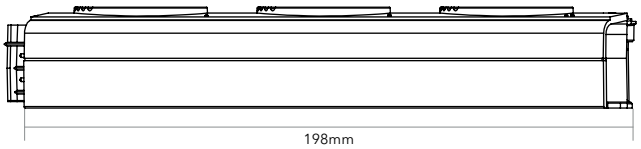




Code	Socket Modules Standard Earth
RAB502	2 Gang Non-fused Grey Socket
RAB532T	2 Gang 3A Thermal Circuit Breaker Grey Socket
RAB552T	2 Gang 5A Thermal Circuit Breaker Grey Socket

Code	Socket Modules Clean Earth
RAC502	2 Gang Non-fused Red Socket
RAC532T	2 Gang 3A Thermal Circuit Breaker Red Socket
RAC552T	2 Gang 5A Thermal Circuit Breaker Red Socket

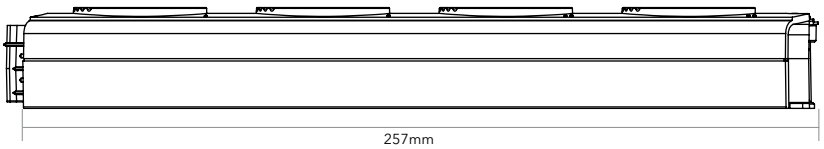




Code	Socket Modules Standard Earth
RAB503	3 Gang Non-fused Grey Socket
RAB533T	3 Gang 3A Thermal Circuit Breaker Grey Socket
RAB553T	3 Gang 5A Thermal Circuit Breaker Grey Socket

Code	Socket Modules Clean Earth
RAC503	3 Gang Non-fused Red Socket
RAC533T	3 Gang 3A Thermal Circuit Breaker Red Socket
RAC553T	3 Gang 5A Thermal Circuit Breaker Red Socket





Code	Socket Modules Standard Earth
RAB504	4 Gang Non-fused Grey Socket
RAB534T	4 Gang 3A Thermal Circuit Breaker Grey Socket
RAB554T	4 Gang 5A Thermal Circuit Breaker Grey Socket

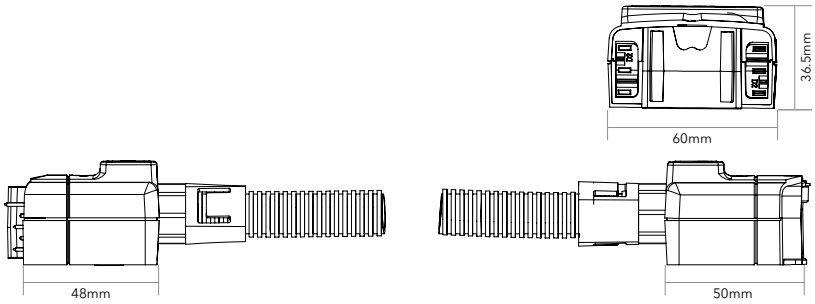
Code	Socket Modules Clean Earth
RAC504	4 Gang Non-fused Red Socket
RAC534T	4 Gang 3A Thermal Circuit Breaker Red Socket
RAC554T	4 Gang 5A Thermal Circuit Breaker Red Socket

Note: Rotasoc® is also available as a Dual System. Please call our sales team for more information.

Rotasoc® Interconnect

32A Interconnect





Code	32 Amp Interconnects Standard Earth
RAB703	0.3m 32A Male to Female Interconnecting Nylon Conduit
RAB705	0.5m 32A Male to Female Interconnecting Nylon Conduit
RAB710	1m 32A Male to Female Interconnecting Nylon Conduit
RAB720	2m 32A Male to Female Interconnecting Nylon Conduit
RAB730	3m 32A Male to Female Interconnecting Nylon Conduit
RAB750	5m 32A Male to Female Interconnecting Nylon Conduit

Code	32 Amp Interconnects Clean Earth
RAC703	0.3m 32A Male to Female Interconnecting Nylon Conduit
RAC705	0.5m 32A Male to Female Interconnecting Nylon Conduit
RAC710	1m 32A Male to Female Interconnecting Nylon Conduit
RAC720	2m 32A Male to Female Interconnecting Nylon Conduit
RAC730	3m 32A Male to Female Interconnecting Nylon Conduit
RAC750	5m 32A Male to Female Interconnecting Nylon Conduit

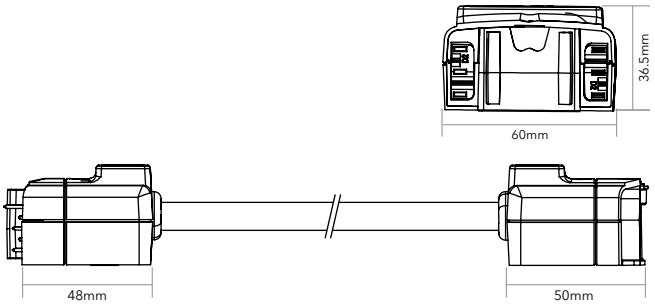
Note: Rotasoc® is also available as a Dual System. Please call our sales team for more information.

Rotasoc® Interconnect

Circuit protection must be used for 16A Rotasoc interconnection modules if the supply is 32A.

16A Interconnnect



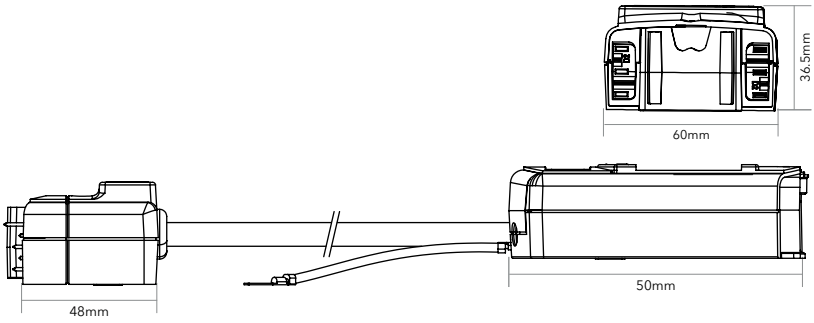


Code	16Amp Interconnects Standard Earth
RAB603	0.3m 16A Male to Female Interconnecting Cable
RAB605	0.5m 16A Male to Female Interconnecting Cable
RAB610	1m 16A Male to Female Interconnecting Cable
RAB620	2m 16A Male to Female Interconnecting Cable
RAB630	3m 16A Male to Female Interconnecting Cable
RAB650	5m 16A Male to Female Interconnecting Cable
RAB670GST	0.5m 16A Rotasoc Male to GST Female output
RABX2184	16A Male split interconnect 0.5m to GST Female Output 2m to Female Rotasoc

Code	16 Amp Interconnects Clean Earth
RAC603	0.3m 16A Male to Female Interconnecting Cable
RAC605	0.5m 16A Male to Female Interconnecting Cable
RAC610	1m 16A Male to Female Interconnecting Cable
RAC620	2m 16A Male to Female Interconnecting Cable
RAC630	3m 16A Male to Female Interconnecting Cable
RAC650	5m 16A Male to Female Interconnecting Cable
RAC670GST	0.5m 16A Rotasoc Male to GST Female Output
RACX2120	16A Male split interconnect 0.5m to GST Female Output 2m to Female Rotasoc

16A Interconnnect (Earthed)





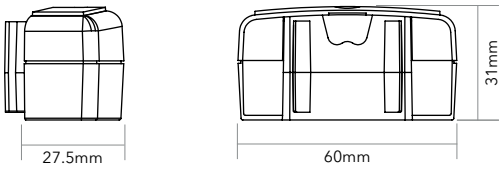
Code	16Amp Interconnects Standard Earth
RABX2230	2m 16A Male to Female (with external earth) Interconnecting Cable

Code	16 Amp Interconnects Clean Earth
RACX2193	2m 16A Male to Female (with external earth) Interconnecting Cable

Note: Rotasoc® is also available as a Dual System. Please call our sales team for more information.

Rotasoc® End Cap





Code	End Cap
RAZ001	End Cap

Rotasoc® Earth Cables

Code	Earth Cable Kits
RAZ020	250mm x 4.0mm Earth Cable Kit c/w Fixings for 32A Infeed
RAZ010	250mm x 1.5mm Earth Cable Kit c/w Fixings for 16A Infeed

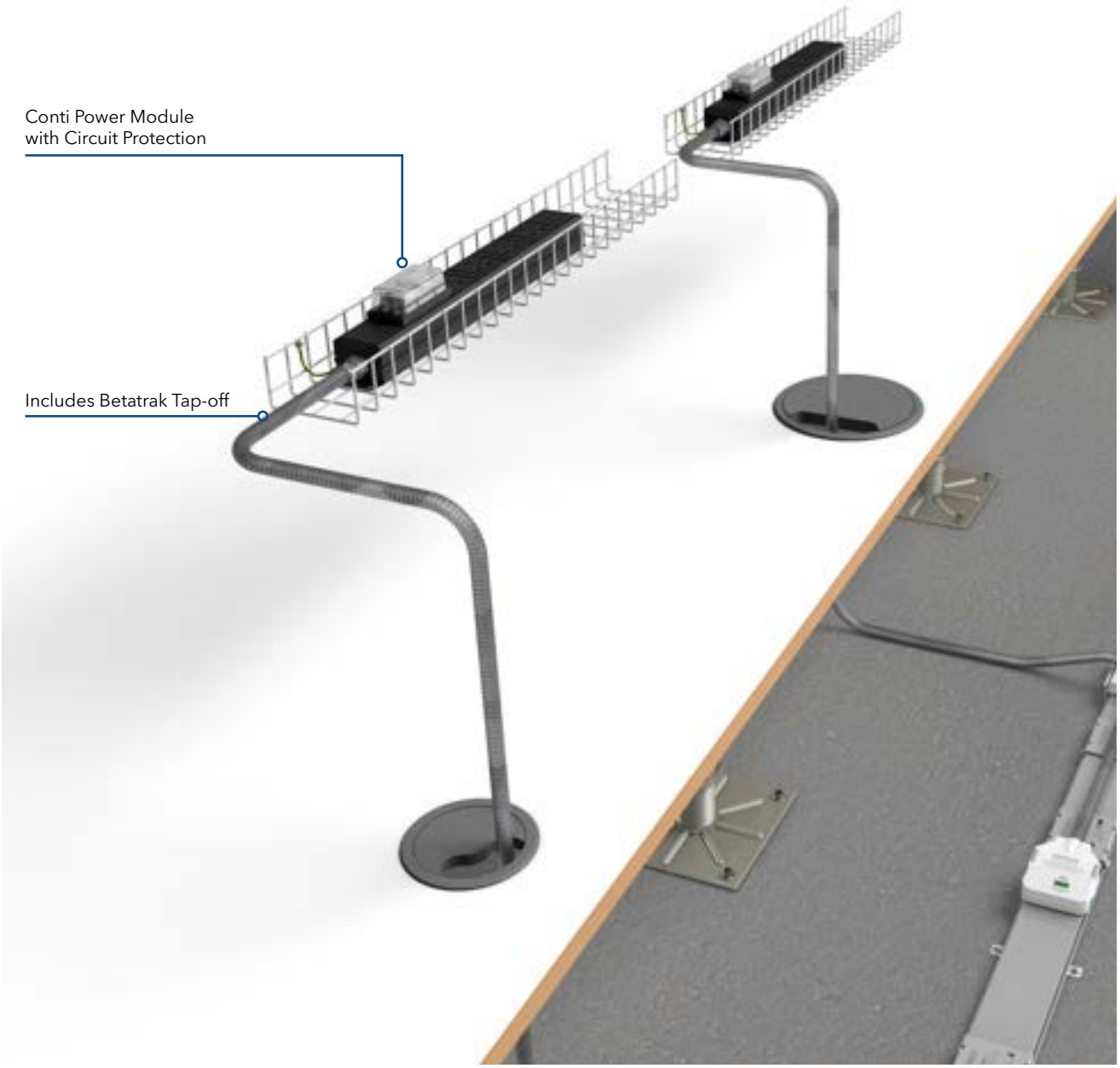
Conti Under Desk Power Module

Conti is a versatile desk power system that allows compliance with BS 7671 Requirements for electrical installations or BS 6396 Electrical systems in furniture - specification.

Configurable to suit your project's bespoke requirements, Conti has a wide range of power, protection, data and AV options.

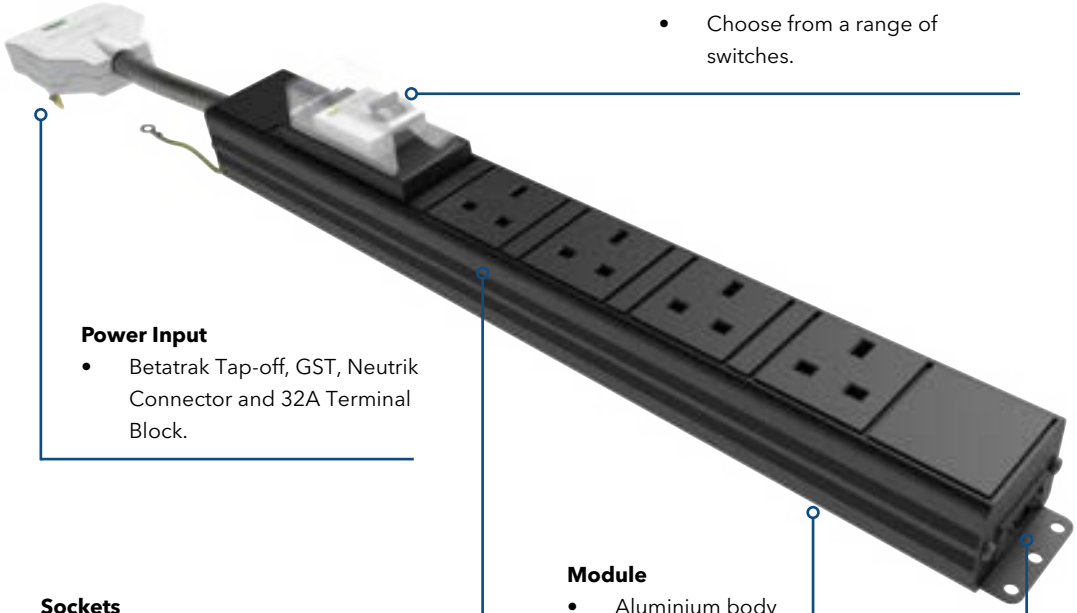
The benefits of using a CMD Conti:

- Allows compliance with BS 7671 or BS 6396.
- Can be fitted with a wide variety of circuit protective devices.
- A comprehensive range of power, data and AV outputs and inputs available.
- Manufactured to BS 5733 General requirements for electrical accessories.



Conti Under Desk Power Module

Circuit Protection and Switching
- MCB, RCBO, RCD or 13A fuses are available.
- Choose from a range of switches.



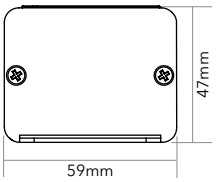
Power Input
- Betatrak Tap-off, GST, Neutrik Connector and 32A Terminal Block.

Sockets
- Choose from a wide range of power, AV and data sockets.

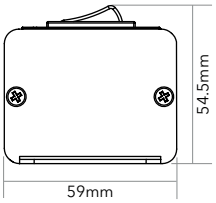
Module
- Aluminium body
- Plastic fascias
- Metal end caps

Power Output
- A GST socket end cap can supply power to another workplace module.
- Conti can be used as a workplace power distribution system using multiple GST sockets.

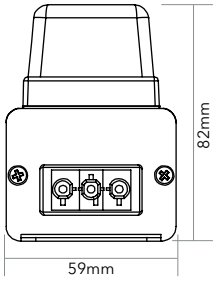
Socket



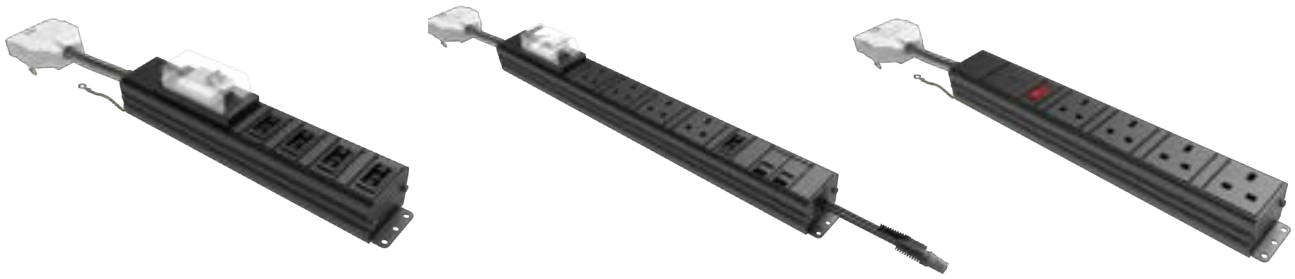
Switch



Protection



Illustrative Conti Configurations



Conti Under Desk Power Module

Conti modules can be specified in a variety of ways, depending on the individual requirements of each project. Some commonly specified options are shown below.

Power Inputs

Betatrak Standard Earth Tap-off



Betatrak Clean Earth Tap-off



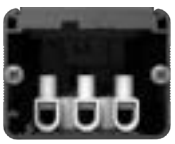
GST Socket (3 Pole)



GST Socket (4 Pole)



Terminal Block



End Cap Not Shown for Clarity

Circuit Protection

MCB



RCBO



RCD



13A Fuse



Switches

Single Pole Neon



Double Pole Neon



Neon Indicator



Power Sockets

Select from our comprehensive range of UK and international power sockets. UK sockets are available in different orientations and either individually fused (3.15A or 5A) or unfused.

UK Unfused



UK Fused



UK Unfused 45°



UK Fused 45°



5A Twin Type A USB



18W Type A/C USB



Schuko/German (Shuttered)



French/Belgian

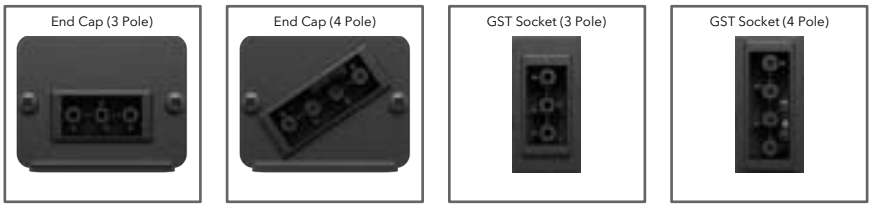


Italian

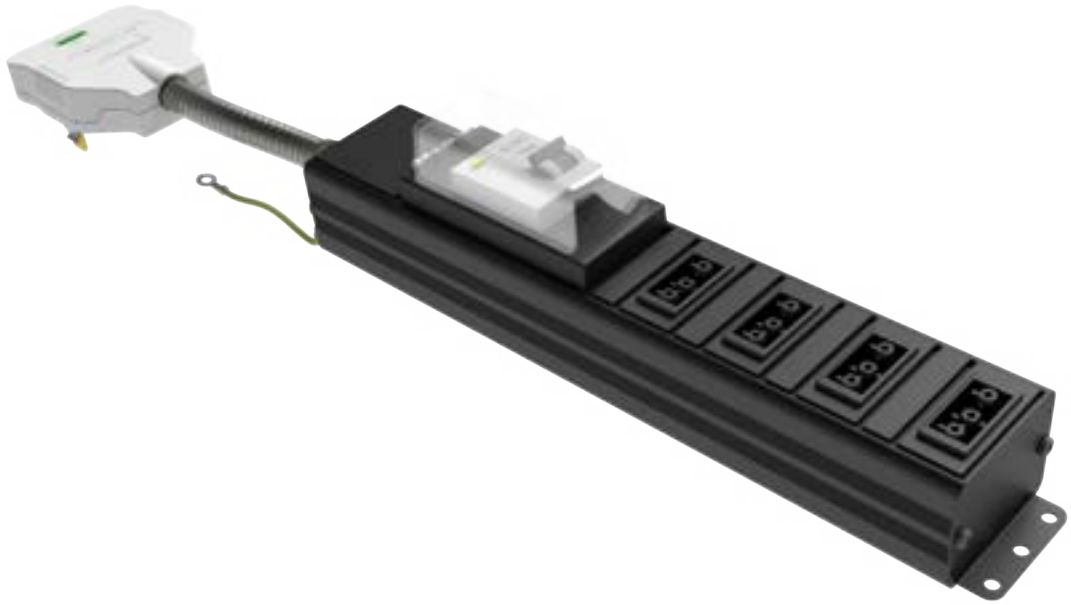


GST Power Connectors

16A rated 3 pole or 4 pole GST power connectors can be used in conjunction with UK or international power sockets to provide a dedicated power output that can be utilised to feed further workstations and/or on desk power modules.

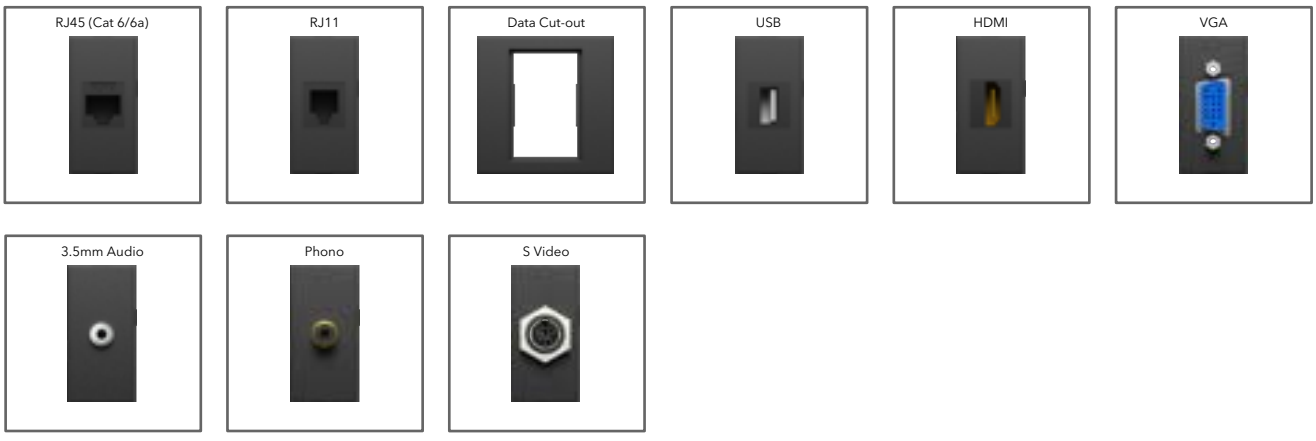


GST power connectors can also be used as a dedicated Power Distribution Unit (PDU).



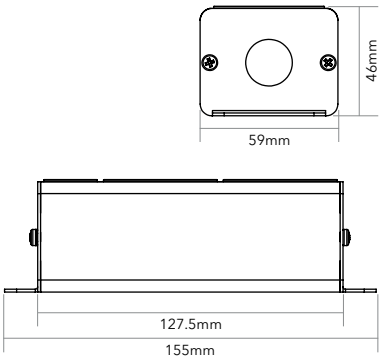
AV and Data Sockets

Select from our comprehensive range AV and data sockets, that can be supplied pre-wired if required. Contact us to discuss your requirements.



Conti Under Desk Data Modules

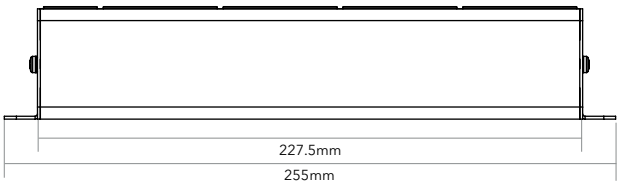




Code	Data Modules
86K745	2 Way Conti Data Module. 2x 6C Cut Outs Facing East West. 20mm Entry Hole.

Code	Data Modules
86D59995	2 Way Conti Data Module. 2x 6C Cut Outs Facing East West. 25mm Entry Hole.

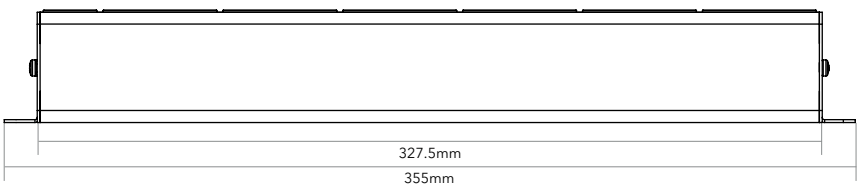




Code	Data Modules
86K710	4 way Conti Data Module. 4x 6C Cut Outs Facing East West. 20mm Entry Hole.

Code	Data Modules
86K1460	4 way Conti Data Module. 4x 6C Cut Outs Facing East West. 25mm Entry Hole.





Code	Data Modules
86K776	6 Way Conti Data Module. 6x 6C Cut Outs Facing East West. 20mm Entry Hole.

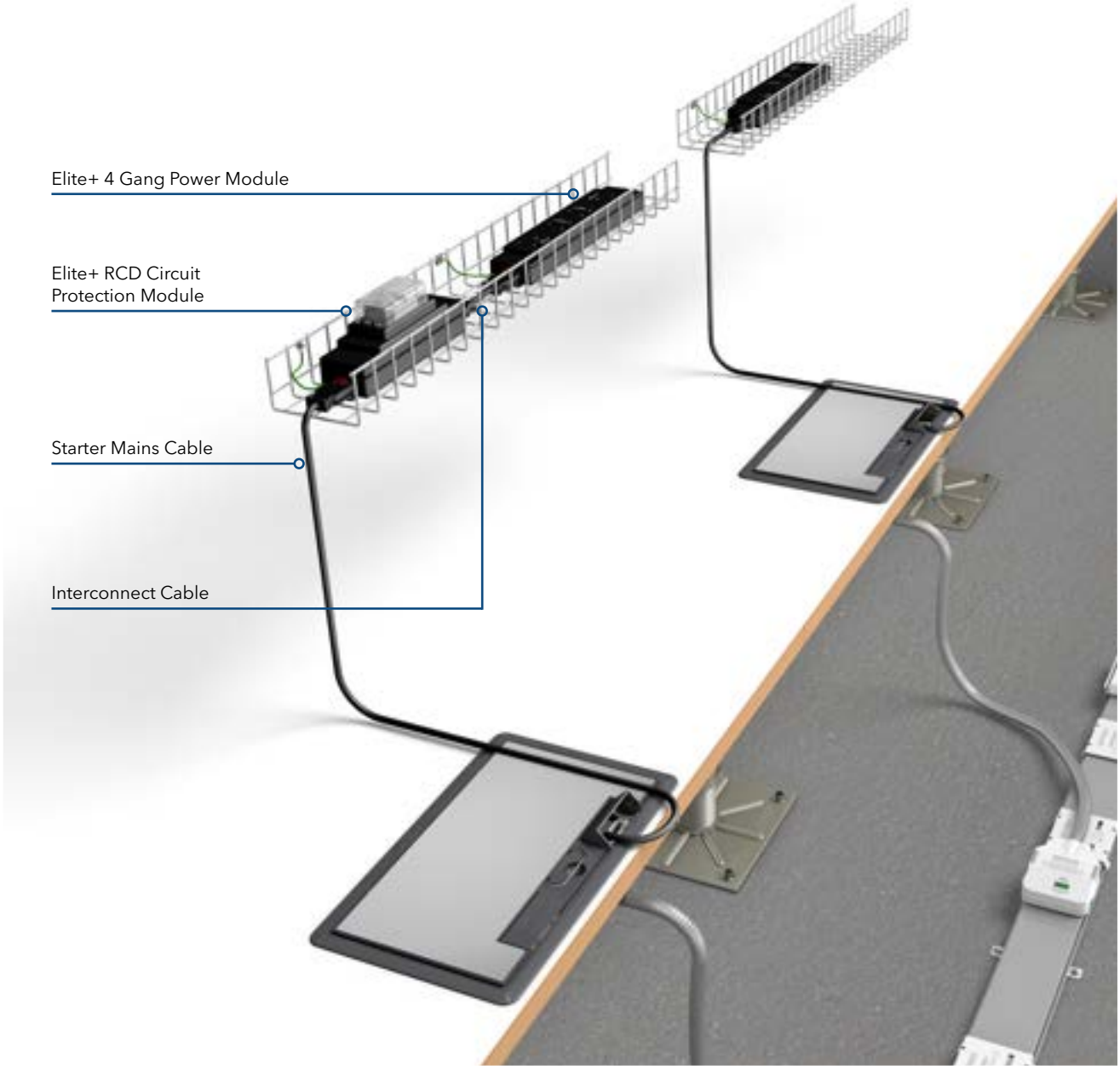
Code	Data Modules
86D141502	6 Way Conti Data Module. 6x 6C Cut Outs Facing East West. 25mm Entry Hole.

Elite+ Under Desk Power Module

Elite+ is a fixed format under desk power system that allows compliance with BS 6396 Electrical systems in furniture - specification.

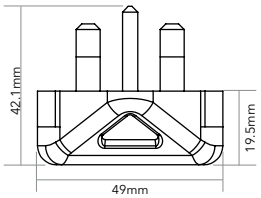
The benefits of using a CMD Ltd Elite+ workplace power system:

- Allows compliance with BS 6396.
- Separate RCD circuit protection module available.
- A comprehensive range of 2, 3, 4 and 6 gang power modules with 3A and 5A resettable thermal fuses.
- Manufactured to BS 5733 General requirements for electrical accessories.
- Utilises standard 3 pole GST connections.
- Plastic fire retardant body.
- Supplied pre-fitted with earth lead.



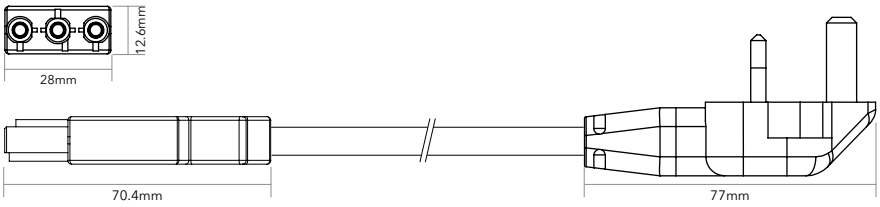
Starter Mains Cables

- BS 1363 UK plug to 3 pole female GST connector.
- 3 core 1.5mm² cable up to 7m.
- Cable lengths over 7m are 2.5mm² cable due to voltage drop.
- GST connectors comply with BS EN61535.



All starter mains cables listed below are black.
White starter mains cables are available on request.





Code	Starter Mains Cables
601110GSTX	1.0m 13A UK Plug to 3 Pole Female GST
601115GSTX	1.5m 13A UK Plug to 3 Pole Female GST
601120GSTX	2.0m 13A UK Plug to 3 Pole Female GST
601130GSTX	3.0m 13A UK Plug to 3 Pole Female GST
601140GSTX	4.0m 13A UK Plug to 3 Pole Female GST
601150GSTX	5.0m 13A UK Plug to 3 Pole Female GST

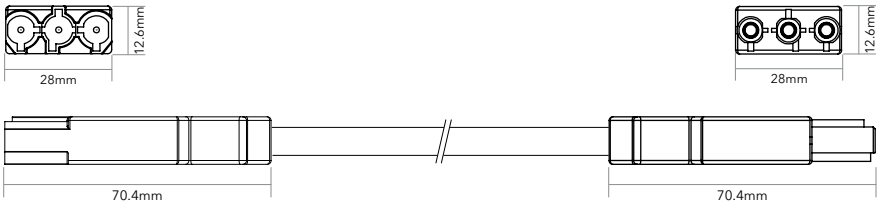
Code	16 Amp Interconnects
601160GSTX	6.0m 13A UK Plug to 3 Pole Female GST
601170GSTX	7.0m 13A UK Plug to 3 Pole Female GST
601179GST	8.0m 13A UK Plug to 3 Pole Female GST
601180GST	9.0m 13A UK Plug to 3 Pole Female GST
600965GST	10.0m 13A UK Plug to 3 Pole Female GST

Interconnect Cables

- 3 pole male GST connector to 3 pole female GST connector.
- 3 core 1.5mm² cable up to 7m.
- Cable lengths over 7m are 2.5mm² cable due to voltage drop.
- GST connectors comply with BS EN61535.

All interconnect cables listed below are black.
White interconnect cables are available on request.



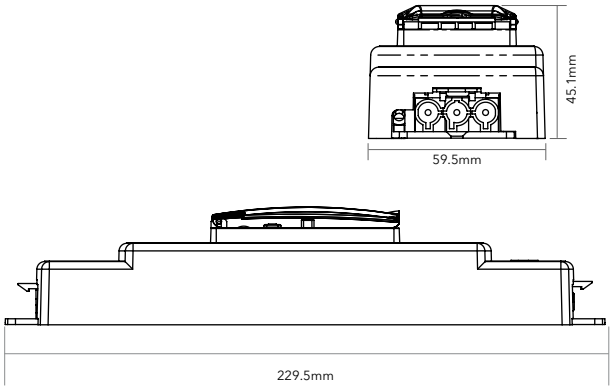


Code	Starter Mains Cables
620203GSTX	0.3m 3 Pole GST Male to 3 Pole GST Female
620205GSTX	0.5m 3 Pole GST Male to 3 Pole GST Female
620210GSTX	1.0m 3 Pole GST Male to 3 Pole GST Female
620215GSTX	1.5m 3 Pole GST Male to 3 Pole GST Female

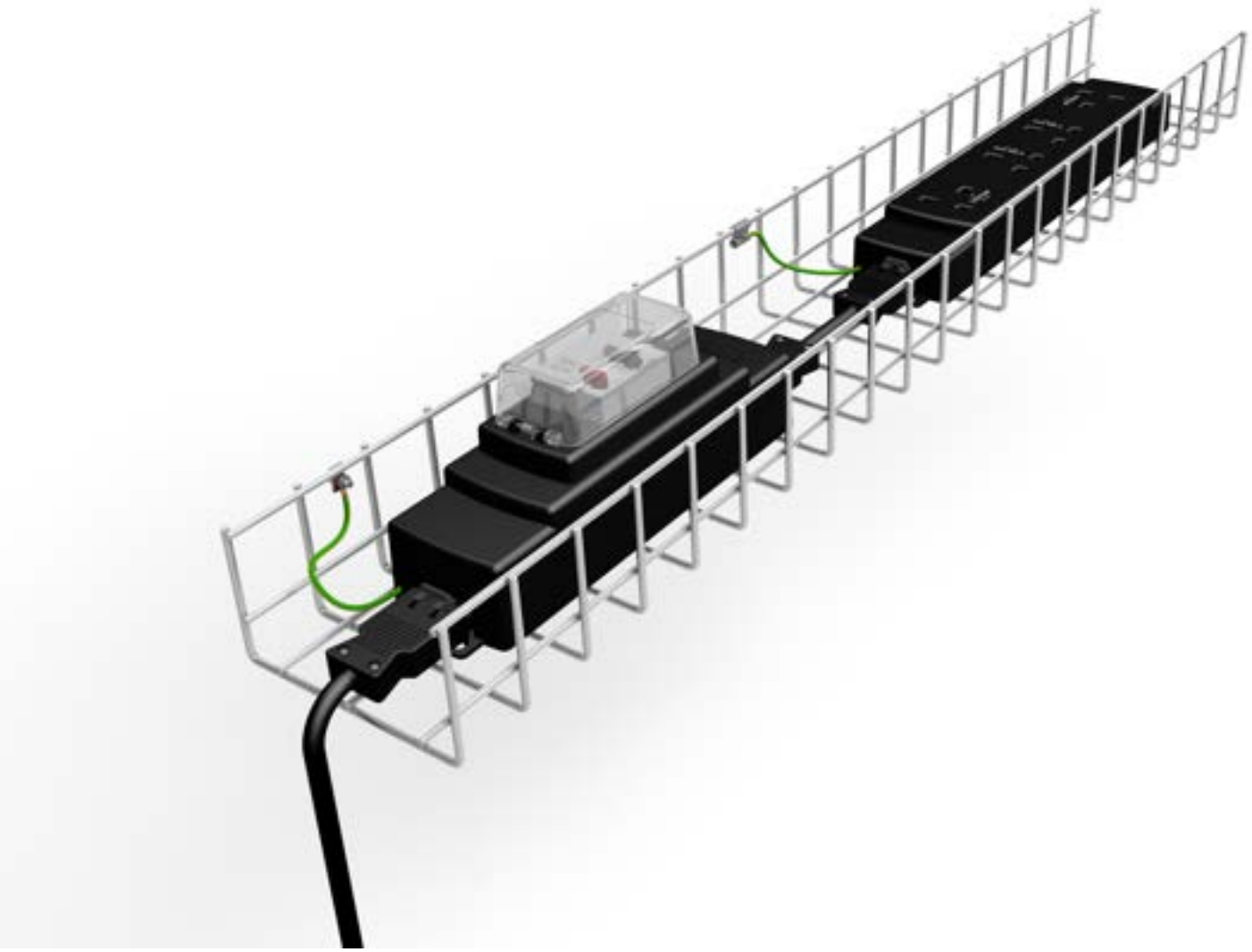
Code	16 Amp Interconnects
620220GSTX	2.0m 3 Pole GST Male to 3 Pole GST Female
620230GSTX	3.0m 3 Pole GST Male to 3 Pole GST Female
620240GSTX	4.0m 3 Pole GST Male to 3 Pole GST Female

Elite+ RCD Circuit Protection Module



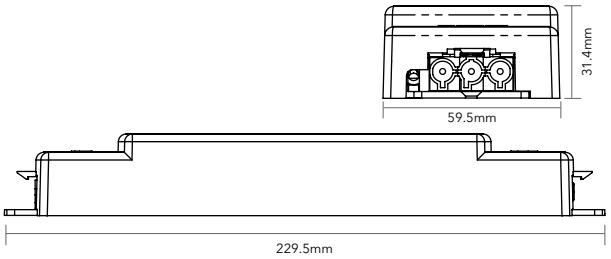


Code	Circuit Protection Module
92JR002GST	16A 30mA RCD Module Standard



Elite+ Power Modules

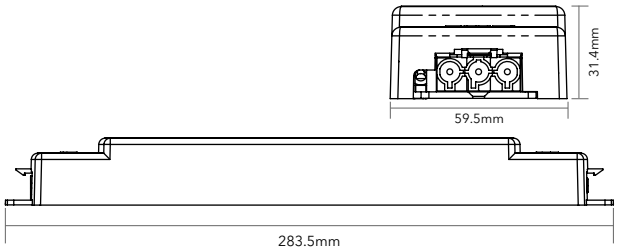




Code	3A Socket Modules
92J005GST	2 Gang Individual 3A Circuit Breaker Sockets Black Body, 2x North Facing Sockets, 3 Pole GST Input/Output

Code	5A Socket Modules
9J011GST	2 Gang Individual 5A Circuit Breaker Sockets, Black Body , 2x North Facing Sockets, 3 Pole GST Input/Output





Code	3A Socket Modules
92J007GST	3 Gang Individual 3A Circuit Breaker Sockets, Black Body, 3x North Facing Sockets, 3 Pole GST Input/Output

Code	5A Socket Modules
92J013GST	3 Gang Individual 5A Circuit Breaker Sockets, Black Body, 3x North Facing Sockets, 3 Pole GST Input/Output





Code	3A Socket Modules
92J002GST	4 Gang Individual 3A Circuit Breaker Sockets, Black Body, 4x North Facing Sockets, 3 Pole GST Input/Output

Code	5A Socket Modules
92J008GST	4 Gang Individual 5A Circuit Breaker Sockets, Black Body, 4x North Facing Sockets, 3 Pole GST Input/Output

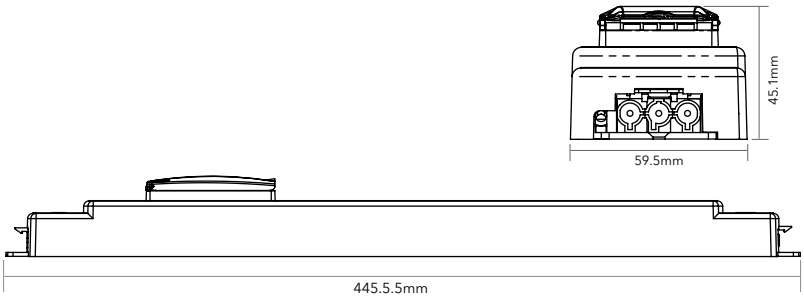
Elite+ Power Modules





Code	3A Socket Modules
92J001GST	6 Gang Individual 3A Circuit Breaker Sockets, Black Body, 6x North Facing Sockets, 3 Pole GST Input





Code	16A Circuit Protection Module
92JR003GST	16A 30mA RCD, 4 Gang Individual 3A Circuit Breaker Sockets, Black Body, 4x North Facing Sockets, 3 Pole GST Input/Output

Elite+ Accessories

GST Mains Splitter



Code	GST Mains Splitter
161415GST	Standard Mains Splitter with 1 Male Inlet to 3 Female Outlets, with Fixing Lugs. Black.

GST Self-Fit Connectors



Code	GST Self-Fit Connectors
440633	Pack of 10 Male Connectors. Black.
440632	Pack of 10 Female Connectors. Black.

GST Blanking Plugs



Code	GST Blanking Plugs
161419GST	To Blank off a Male Connector. Black.
161421GST	To Blank off a Female Connector. Black.

GST/ST Connector Blocks



Code	GST/ST Connector Blocks
160834GST	Converts a Female ST Output to a Female GST Output. Black.
160618GST	Converts a Female GST Output to a Female ST Output. Black.

Locking Clips

Cable Locking Clips are available but will vary depending on the cables used so please speak to a member of our sales team for more information.

Fuses



Code	20mm x 5mm Fuses
440175	Pack of 100x 3.15A Fuses.
440176	Pack of 100x 5A Fuses.

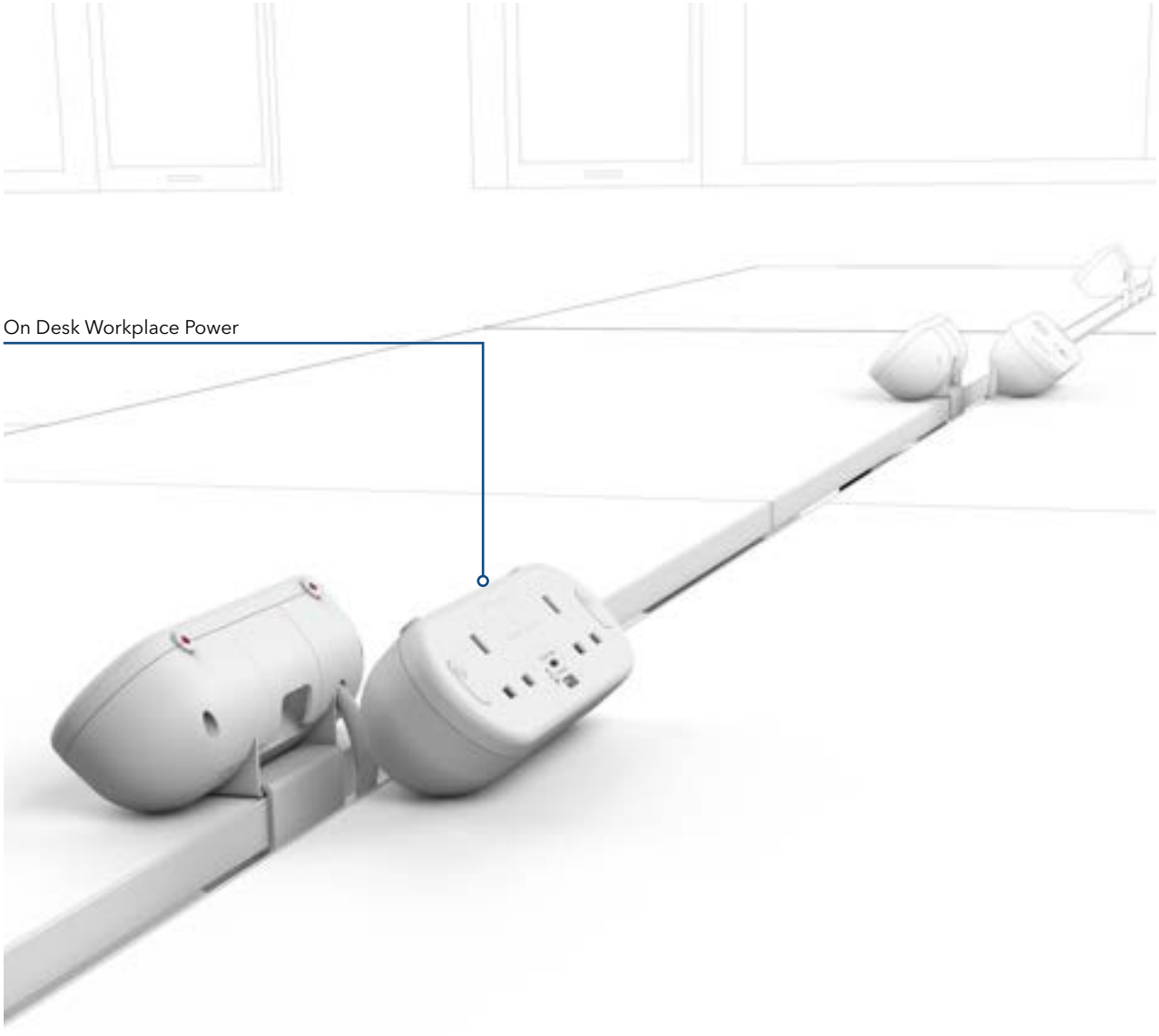
Workplace Power and Other CMD Products

CMD Ltd have a comprehensive range of workplace power modules, ergonomic equipment and cable management products that will complete the connection of your power distribution system from below the floor to the surface of a workstation.

Ergonomic equipment includes a choice of dynamic monitor arms or pole monitor arms for single and multiscreen setups, and CPU supports to suit a wide range of CPU size variations.

The benefits of using CMD workplace power and ergonomic products:

- Allows compliance with BS 6396 Electrical systems in furniture - specification.
- Selected products available for immediate despatch or can be customised to meet individual requirements.
- Power modules manufactured to BS 5733 General requirements for electrical accessories.
- Product warranties range from 5-10 years.



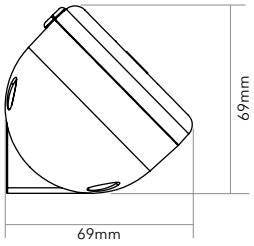
Capsule On Desk Power Module

Capsule is a fixed format power module that includes two UK sockets with individual illuminated switches, resettable 3A circuit breakers, dual port Type A and C adaptive fast charger with LED indicators and a desk fixing clamp. Capsule also has two apertures which can house a range of keystone sockets.





Please scan the barcode to visit our website for full details.



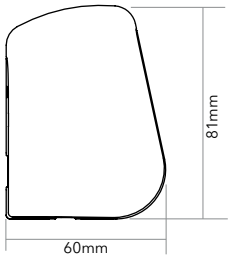
Contour On Desk Power Module

Contour is available with a metal or plastic body and can be customised to support a range of UK and international, USB charging and AV sockets and is fully compliant to current safety regulations.





Please scan the barcode to visit our website for full details.



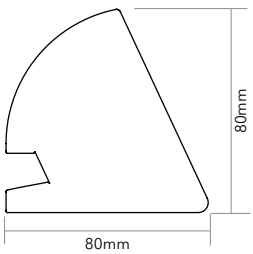
Harmony On Desk Power Module

Harmony has a metal body and can be customised to support a range of UK and international, USB charging and AV sockets and is fully compliant to current safety regulations.





Please scan the barcode to visit our website for full details.



Additional Workplace Power Modules

Caplet
(Workplace)



Neptune
(Workplace)



Porthole 65
(Workplace | Breakout)



Lunar
(Breakout)



Inca
(Breakout | Conference)



Reveal
(Conference)



Connect
(Conference)



Surface
(Conference)



Other Products

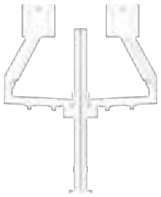
Dynamic Monitor Arms



Dual Monitor Arms



Dynamic Pole Monitor Arms



Pole Monitor Arms



Cable Management Spines



Cable Management Spines



Cable Managment Baskets



Cable Grommets



Please call our sales team for more information or visit our website.

WORKPLACE POWER

3m Tap-off Regulation

Unfused Tap-off Units Exceeding 3m BS7671 Requirements for electrical installations. IET Wiring Regulations.

Tap-off units exceeding 3m should only be used if they contain a fuse or the powertrack is protected by a 32A rated protective device.

Why this is important?

63A powertrack systems are designed to be protected by a circuit protective device to a maximum of 63A. CMD Ltd always assumes that this protection device is located at the origin of the circuit in the distribution board (not supplied by CMD).

CMD tap-off units allow compliance with BS 7671 (Fault Protection). In summary, this regulation states that the maximum length of cable may not exceed 3m. This is because there will be a reduction in current-carrying capacity in a 63A powertrack system at the point where the 32A tap-off unit is required to supply other products in the powertrack system.

The tap-off unit must also be installed in such a manner to reduce the risk of fault or damage to the product to a minimum, which includes reinforcing the protection of the wiring against external influences. CMD achieves this by using a flexible metal conduit.

If your product solution requires you to exceed a length of 3m in a 63A powertrack system (where the circuit protective device is greater than 32A) then a 13A Fused tap-off unit should be used.

CMD can supply unfused tap-offs that exceed 3m for use with powertrack systems rated at no more than 32A, but a suitable circuit protective device should be utilised to protect from overload and fault current.

Overload protection from the 63A Powertrack system to a 3m unfused 32A tap-off that is supplying a floor service unit or desk power module must also be considered. CMD tap-offs allow compliance when the nature of the load is equal to or less than 32A. It is a requirement that if a 3m unfused 32A tap-off could overload, an appropriate up-stream circuit protection must be installed. This could take the form of:

- A 13A fused tap-off.
- De-rating of the 63A powertrack system to a 32A system with a suitable circuit protection device (located at the origin of the circuit in the distribution board).
- Installation of an RCBO fitted into either the floor service unit or desk power module.

CMD Tap-off Lengths:

The metal flexible conduit on all CMD Betatrak Tap-offs are supplied at 225mm less than the 3m and 5m stated lengths to allow for electrical connections to components without stressing the electrical terminations. Therefore, a 3m tap-off will have a metallic flexible conduit length of 2775mm and a 5m tap-off will be 4775mm long.

CMD Related Product(s).

- Betatrak (63A Powertrack).
- Floor Boxes.
- Slab Boxes.
- Cleaner's and Power Hives.
- Rotasoc® tap-off unit.
- Conti containing tap-off unit.

RCD Compliance

Residual Current Device (RCD) and Socket-Outlet Additional Protection.

What an RCD Does.

A residual current device, or RCD, prevents a user from getting a hazardous or fatal electric shock. The RCD switches off the electricity automatically if it detects a fault to earth or excessive earth leakage. It does this by constantly monitoring the electric current flowing through the circuit it is protecting. If an RCD detects a fault to earth or excessive earth leakage, it will 'trip' i.e., automatically switch off, preventing electricity flowing any further through the electrical circuit.

RCD's are used in many industries meaning there are different specifications available. The name RCD is generic and is a family of devices comprising different names and specifications that incorporate RCD protection. This document aims to give guidance about RCD's which are built into either the power distribution system of an office building (fixed wiring installation) or used in office and educational furniture (furniture electrical system) to provide additional protection.

Earth Leakage Explanation.

Earth leakage is when the current flowing in a circuit finds an alternative return path other than through phase conductors. It is associated with a residual current of small magnitude and is generally measured in the order of milliamp (mA). An RCD will 'trip' if it detects a high magnitude of earth leakage i.e., an excessive level. For example, CMD Ltd generally installs 30mA Type A RCD's which will trip if approximately 22mA (or greater) earth leakage is detected.

Specifying RCD into the Power Distribution System of an Office Building (BS 7671 Requirements for electrical installations. IET Wiring Regulations).

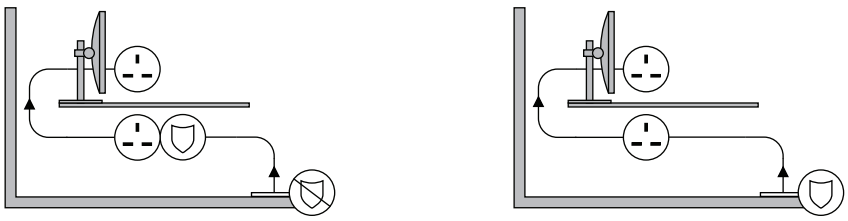
This applies to products that contain socket-outlets up to a rating of 32A and are part of the fixed wiring installation. All socket-outlets up to a rating of 32A must have 30mA RCD protection.

Key

No RCD Protection

RCD Protection

Power Module



Specifying RCD into Office and Educational Furniture (BS 6396 Electrical systems in furniture - specification).

This applies to furniture electrical systems that are powered by means of a BS 1363 fused 13A plug and that are connected to an office building's fixed wiring 13A socket-outlet.

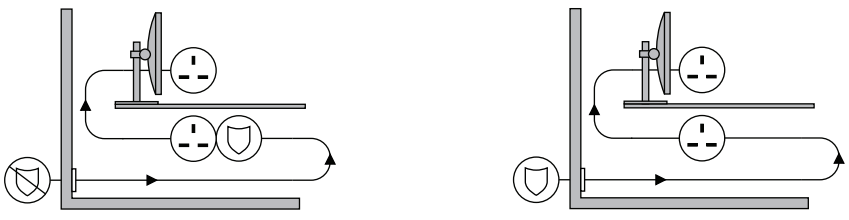
A 30mA RCD must be incorporated into the design of the furniture electrical system if an RCD is not present within the fixed wiring 13A socket-outlet circuit that it is being connected to.

Key

No RCD Protection

RCD Protection

Power Module



RCD Compliance (Continued...)

CMD Related Product(s).

BS 7671 Requirements for electrical installations. IET Wiring Regulations.	Electrical systems in furniture - specification (BS 1363 13A Fused Plug)
• Betatrak (63A Powertrack). • Floor Boxes 20, 20A and 99 Series. • Slab Boxes. • Cleaner's and Power Hives. • Rotasoc®. • Conti. • Power Hub.	• Under desk power modules (Rotasoc, Elite, Conti). • In desk power modules (Surface, Face, Affinity, Horizon, Inca, Porthole, Reveal). • On desk power modules (Capsule, Harmony, Contour). • Starter and Connector Cables.

RCD Protection Devices Used by CMD.

Generally, for the UK market CMD supplies 30mA Type A RCD's using the device types listed below. These are suitable for office and educational electrical systems containing IT equipment.

RCD Device Type		Compliance Standard	CMD Product(s) (That the RCD could be installed into)
RCCB	Residual current operated circuit-breaker without integral overcurrent protection.	IEC 61008-1	• Floor Boxes 20, 20A and 99 Series. • Slab Boxes. • Rotasoc®. • Conti (all types). • Elite.
RCBO	Residual current operated circuit-breaker with integral overcurrent protection. Combines an MCB and RCD providing dual protection of fault and earth leakage.	IEC 61009-1	• Floor Boxes 20, 20A and 99 Series. • Slab Boxes. • Rotasoc®. • Conti (all types).
SRCD	13A Socket-outlet incorporating an RCD A latching / passive RCD which does not require re-set in the event of mains power distribution failure (not to be confused with fault to earth or earth leakage).	BS 7288	• Floor Boxes 20, 20A and 99 Series. • Slab Boxes.

BS EN 61535 Installation couplers intended for permanent connection in fixed installations

BS EN 61535 is an electrical product standard that applies to two, three, four and five wire installation couplers including earth, (if provided), with a rated voltage up to and including 500V a.c. and a current rating up to 32A for permanent connection in indoor electrical installations. An installation coupler is described as having both a female and male connector that are not intended to be connected whilst under load. If in a readily accessible area, they must employ a locking mechanism requiring release by a tool only.

Installation couplers with additional contacts for voltages other than mains voltages are outside the scope of this standard. CMD Ltd products that use installation couplers allow compliance to BS EN 61535.

CMD Related Product(s):

- Power Hub.
- Tap-off.
- Rotasoc®.
- Under desk power modules (Conti, Elite).
- Through desk power modules (Porthole, Horizon, Affinity, Reveal, Surface, Face, Inca).
- On-desk power modules (Harmony, Capsule, Contour, Inca, Chip).

BS 5733 General requirements for electrical accessories

This guidance note describes BS 5733, which incorporates electrical products intended for use in domestic and commercial installations. BS 5733 compliance ensures the safe design and manufacture of electrical products because it specifies the tests that check their safety in normal use not specifically covered by other British Standards.

System Application.

This applies to products if:

- The nominal supply voltage does not exceed 250V a.c. single phase, 50Hz to 60Hz or 250V d.c.
- The rated current of the electrical product does not exceed 63A.
- The connecting devices and other electrical products incorporate BS 1363 13A socket-outlets.

CMD Related Product(s).

The following CMD products have been designed to comply with BS 5733.

- Power Hub.
- Floor Boxes.
- Slab Boxes.
- Cleaner's and Power Hives.
- Under desk power modules (Rotasoc, Conti, Elite).
- In desk power modules (Surface, Face, Affinity, Horizon, Inca, Porthole and Reveal).
- On desk power modules (Capsule, Harmony and Contour).

BS 6396 Understanding the Requirements for Electrical Systems in Furniture.

This section describes how to safely specify and install an electrical power, AV and cable-management solution in furniture. This specifically applies to any electrical system that is connected to the mains supply by means of a BS 1363 13A plug, covering all types of furniture in domestic, work and public spaces.

The standard does not apply to power distribution systems e.g., CMD Ltd's 'Betatrak' system, that are permanently connected to the building installation or for electrical appliances for which other appropriate standards are available.

Why this is important.

The "Electricity at Work Regulations" stipulate that electrical equipment and installations must be designed and tested to ensure their safety and to comply with statutory regulations. This is important to ensure the circuits are not overloaded and do not cause a risk of danger to the user, e.g., electric shock or fire. This is achieved by both restricting the maximum number of socket outlets connected to the building's mains electrical supply, individual socket fusing and through appropriate earthing (of exposed conductive parts). A method of demonstrating safety is to comply with the British Standard, BS 6396.

Things to consider:

- BS 5733
  All electrical products used within the electrical system must be designed to comply with BS 5733.
- Residual Current Device Protection (RCD)
  It is vital to check that the building socket outlet, onto which your office or educational electrical system is being connected to, is protected by a 30mA RCD. If an RCD does not exist within this system, an RCD must be present in the electrical solution (power modules and starter leads) being specified.
- Earthing
  Earthing of exposed conductive parts protects the user from electrical shock in the event of a basic insulation failure. CMD supplies power modules with socket outlets complying with BS1363 / BS5733. They may also be specified with an external earth connection to provide supplementary bonding to metallic cable containment within office furniture.

When used with an electrical system, furniture under normal conditions would not be live but any exposed conductive parts could carry a hazardous voltage under fault conditions. The specifier must assess the furniture to determine whether it requires a protective earth connection i.e., external earth connection from the power module to the furniture.

The earthing of the workstation depends on its construction, but generally:

- Furniture with metal containment/structure does not need to be earthed, provided the electrical supply/ interlinking cables are double insulated and the power modules are in a reinforced insulated body, or in an earthed metallic body.
- Furniture with metal containment/structure requires an external earth connection from the power module to the furniture if single insulated cables have been used in the structure of the furniture. This is because they could cause a fault in the event of failure of basic insulation.
- Furniture with a metal containment/structure, requires an external earth connection from the power module to the furniture, if the cables could be trapped or damaged due to incorrect operation or adjustment of the workstation.

Inspection and Testing.

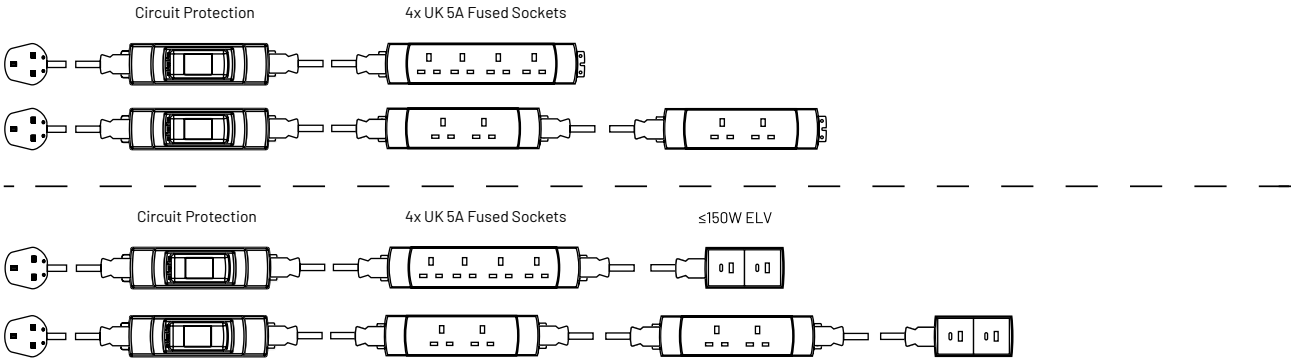
To ensure compliance to BS 6396 and the "Electricity at Work Regulations", electrical systems installed in office furniture or educational furniture must be inspected, tested and the results documented. This applies to both new and reconfigured installations. The tests must be performed by suitably trained personnel.

BS 6396 Understanding the Requirements for Electrical Systems in Furniture. (Continued...)

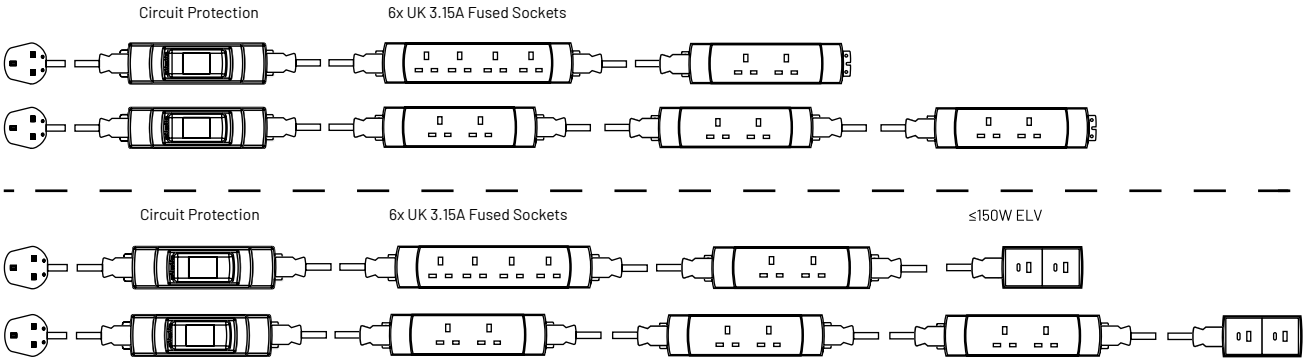
How to comply to BS 6396:

- Must have Type A RCD Circuit Protection within the electrical system.
- Determine furniture earthing requirements.
- 13A three-pin plugs must conform to BS 1363 - 13A plus, socket-outlets, adaptors and connection units.
- Electrical product(s) must conform to BS 5733 General requirements for electrical accessories.
- Sockets must be individually protected by an over current protective device e.g., 3.15A fuse, 5A fuse or CBE.
  - If sockets are individually protected at 5A then a maximum of 4 sockets may be supplied from a single 13A plug connected to the building's mains electrical supply socket-outlet. See 5A layout below.
  - If sockets are individually protected at 3.15A then a maximum of 6 sockets may be supplied from a single 13A plug connected to the building's mains electrical supply socket-outlet. See 3.15A layout below.
- Mains electricity cables shall be separated from all other cables or all cables must be insulated for the highest voltage present.
- Data and other AV cables can share a common duct/aperture providing the following is met:
  - They are separated by a cable management system such as a cable spine.
  - Cable supports spaced at a maximum distance of 300mm apart.
- Test according to BS 6396, section 8.

5A Layout



3.15A Layout



CMD Related Product(s):

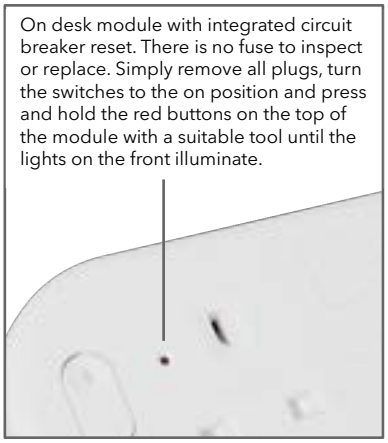
- Under desk power modules (Elite, Conti, Rotasoc).
- In desk power modules (Inca, Porthole, Connect, Reveal, Neptune, Lunar, Surface, Face).
- On desk power modules (Capsule, Caplet, Linear, Contour, Harmony).
- Starter and connector cables.
- Cable management (Fusion and Premium cable baskets, Tidy, Spiral and Cableway cable spines).

Power Module Trouble Shooting

This guide identifies the common reasons why you may find that your CMD Ltd power module is not powering your devices and how to resolve them. The most recurrent cause is likely to be that circuit breakers or fuses need either resetting or replacing.

Modules with integrated circuit breakers (Capsule, Caplet, Elite, Rotasoc).





On desk module with integrated circuit breaker reset. There is no fuse to inspect or replace. Simply remove all plugs, turn the switches to the on position and press and hold the red buttons on the top of the module with a suitable tool until the lights on the front illuminate.

Modules with replaceable fuses.





On desk power module with replaceable fuse for inspection and replacement. Fuses are located within the sockets.

By following this guide, we are confident your power module will be back up and running in no time but please note that all remedial actions should only be conducted by a skilled or instructed person. If you require further advice, do not hesitate to contact CMD.

Fuses and Circuit Breakers.

CMD produce power modules designed to allow compliance with BS 6396 Electrical systems in furniture - specification. To meet the requirements of the standard, the power modules incorporate individual fused sockets, rated at either 3.15A or 5A, or individual Resettable Thermal Circuit Breakers rated at either 3A or 5A. The fuse or circuit breaker is a safety feature in the circuit, which is intended to 'blow' or 'trip' if the connected device draws too much current.

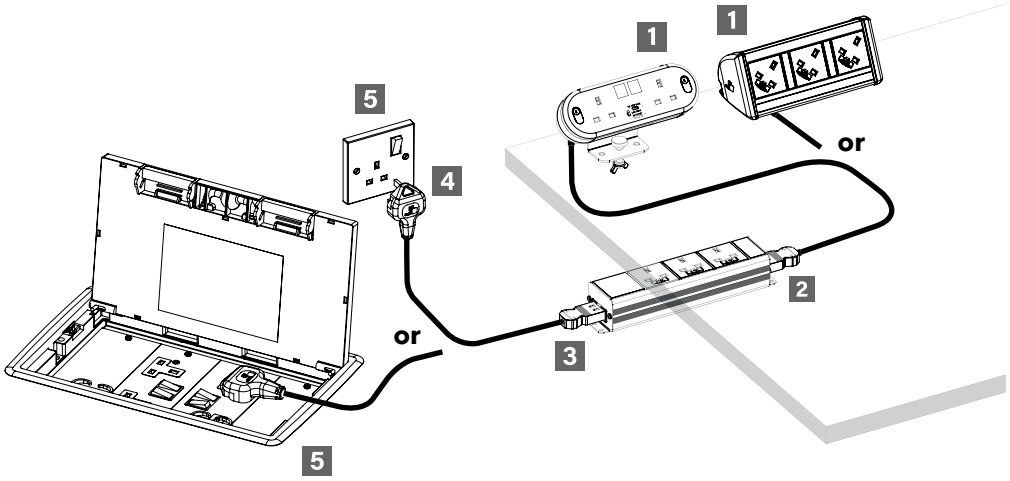
CMD's power modules are designed to power office equipment e.g. computer monitor, desktop computer, 60W desk lamp, laptop charger, mobile phone charger. They are not intended to power other types of electrical equipment that draw more than 5A. Electrical items that do require more than 5A should be connected directly to a 13A socket.

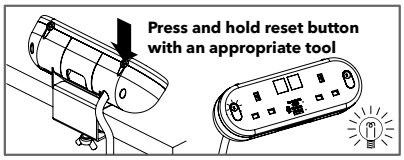
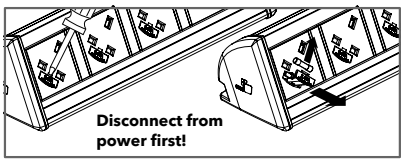
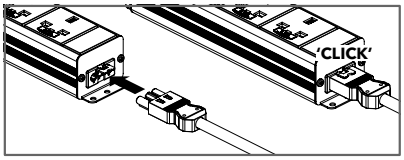
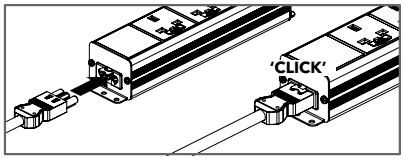
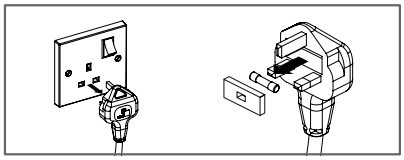
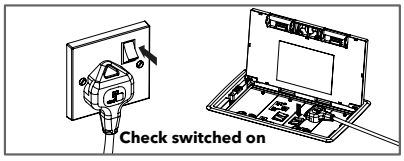
Power Module Trouble Shooting (Continued...)

Troubleshooting Scenario.

This troubleshooting scenario assumes an electrical system comprising:

- Starter lead with 13A plug and GST output connection.
- Under desk power module with GST input and output connections.
- On desk power module with GST input connection.



Step	Check	Remedial Action		If not resolved
1	Have you changed/ checked the fuse/ circuit breaker?	Ask the Facilities Management team to check and replace or reset the fuse/circuit breaker. On modules with a circuit breaker reset, there is no need to disconnect it from power but it is recommended to remove plugs.	 	Move to step two
2	Have you checked if the on desk module is securely connected into the GST 3-pole output of the under desk module?	The Facilities Management team should check that the out-going 3-pole connector is fully inserted and the inline locking mechanism is correctly engaged.		Move to step three.
3	Have you checked if the starter lead is connected securely into the under desk module?	The Facilities Management team should check that the incoming GST 3-pole connector is fully inserted and the the inline locking mechanism is engaged correctly.		Move to step four.
4	Has the fuse in the 13A UK plug been checked?	The Facilities Management team should check the 13A fuse in the plug-top and replace if necessary.		Move to step five.
5	Is power coming from the wall socket or floor box socket?	The Facilities Management team should check the wall or floor box socket.		You will need to seek guidance from an electrician to assess the wall or floor box socket.

Electrical Product Testing

CMD Ltd undertakes a 100% inspection and test regime on all factory assembled products used in electrical installations. This is carried out in accordance with our ISO 9001 Quality Management System procedures.

Where applicable, the following inspection and tests are applied:

1. Visual inspection of the unit to be tested.
2. Earth continuity test.
3. Insulation (voltage adjusted for active components) test.
4. Polarity test.
5. Operation test.
6. RCD test (if relevant).

The results of all tests are recorded by CMD. All products have a QR code printed to its product label that will identify testers initials, batch number, part number and date for traceability.

ISO 14001 Environmental Management System and ISO 9001 Quality Management System

CMD is committed to providing a high-quality product and service that continually evolves to exceed the needs of our clients.

CMD Management Systems and Procedures meet the Requirements of BS EN ISO 14001 Environmental Management System and BS EN ISO 9001 Quality Management System.

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