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POWER DISTRIBUTION SYTEMS

MK Electric is the UK’s leading electrical accessories manufacturer and for over 100 years we’ve been offering a comprehensive range of products built on our core brand values of quality, reliability and safety.

We're incredibly proud of our British manufacturing heritage, 88%* of our MK Power Distribution System range sold in the UK and Republic of Ireland is also made in the UK.

Today, MK is part of Honeywell, a \$37bn, Fortune 100 company, providing access to vast technologies and global supply chain power - meaning our customers reap the benefits of our status as a local, but global, business.

Our MK Power Distribution Systems are a broad range of Raised Floor, Screed Floor, Desking and Overhead Distribution Solutions, designed for fast and simple installation.

MK Power Distribution Systems cost effectively deliver, robust and safe access to power and data, from a buildings point of distribution to the end user. Whilst also offering the functional flexibility to re-configure as your building layout and space application needs evolve.

Whether you are designing, installing or maintaining power distribution systems for offices, education or commercial premises such as exhibition or showroom spaces, shopping malls or retail outlets, you can be confident of a reliable solution from MK Electric.



NEW MK ESSENTIALS FLOORBOX - PAGE 16



NEW IN-DESK MODULES - PAGE 29



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ONIX PLUS - PAGE 35

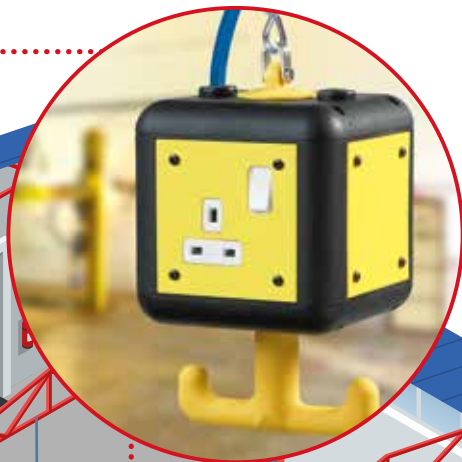
*Based on 2019 sales

POWER DISTRIBUTION SYSTEMS

EXAMPLE SPECIFICATION FOR A COMMERCIAL OFFICE APPLICATION

HANGMANN

- Range of robust hanging service modules providing access to power, data and compressed air flow
- Ideal for use in garages, workshops and factories.
- Explore the range - page 62

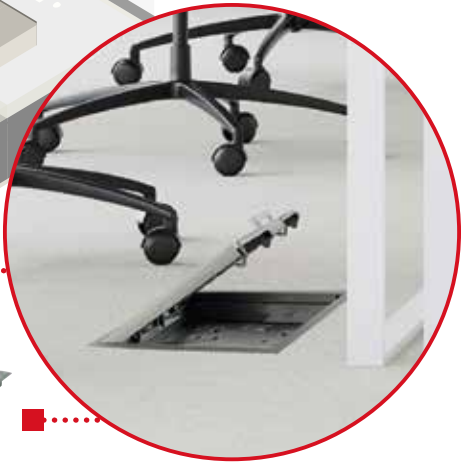


INTERACT OVERHEAD POWER

- A powertrack system for single, 3 phase or dual circuit applications.
- Patented 'snap fast' crocodile joints for a fast and simple installation
- Explore the range - page 57

ABOVE THE DESK MODULES

- Provides convenient power, data and USB charging access to the desk-top
- Stylish and ergonomic design with an integral 'C' clamp for fast and simple installation.
- Explore the range - page 27



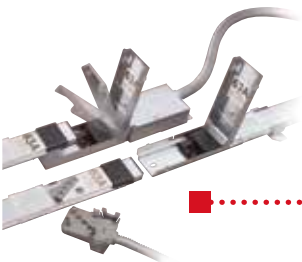
RAISED FLOOR SYSTEMS

- Provide an effective interface between the floor surface and the workstation
- Cablelink Plus Single Pan Box - high load bearing performance of 5,000N. Explore the range - page 19
- MK Essentials Floorbox - a value range where quality counts. Explore the range - page 16



INTERACT UNDERFLOOR POWER

- A powertrack system for single and multi-circuit applications
- Patented 'snap fast' crocodile joints for a fast and simple installation
- Explore the range - page 9



SCREED FLOOR SYSTEMS

- Provides adaptable power and data distribution highways in screed floors
- Onix Plus - superior load bearing of 10,000N, with wet-washable options. Explore the range - page 35
- Cablelink Plus Screed - suitable for screed depth as low as 53mm. Explore the range - page 45



IN-DESK MODULES

- Provides neat access to power, data and USB charging within furniture
- Attractive design with a soft close lid, ideal for any meeting room.
- Explore the range - page 27



PRACTICAL ENGINEERING, INNOVATIVELY DESIGNED

At MK Electric, we continue to listen carefully to understand our customers needs. By focusing on product functionality, installation, maintenance and user practise we aim to address the demands placed on power distribution systems in today's buildings.

By specifying and installing MK Power Distribution systems, you can be confident of a reliable solution thanks to a suite of practical features and benefits that include;

FAST AND SIMPLE INSTALLATION



RATCHET LEVELLING SYSTEM



FLANGE FIXINGS

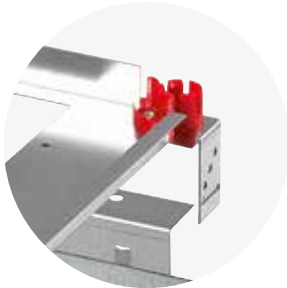


SIDE KNOCKOUTS



INTEGRAL 'C' CLAMP
FOR FAST INSTALLATION

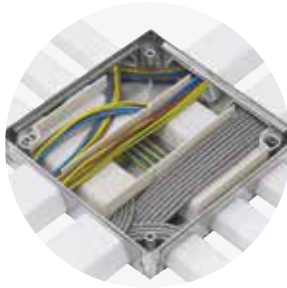
SUPPORTING STRUCTURED CABLING SYSTEMS



ADJUSTABLE TRAY HEIGHT



WAVEPLATE



CABLE FLYOVER

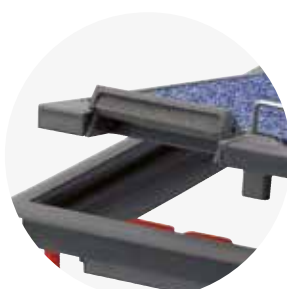
ROBUST DESIGN



LOAD PERFORMANCE



WET WASHABLE



TOUGHENED CORD CAPS



SECURE HANDLE



INTERACT UNDERFLOOR POWER

RANGE INTRODUCTION

Interact Underfloor Power is a low profile powertrack system catering for single and multi-circuit applications, specifically designed to ensure a fast and simple installation.

It is suitable for standard, clean earth, uninterrupted or dedicated power supplies and allows power throughout the building.

HOW TO SPECIFY

A low profile 63A underfloor powertrack system to cater for single and multi-circuit applications. Snap fast crocodile joints to ensure fast and simple installation with provision for 300mm socket spacing's. Key and colour coded tap-offs and sockets used to prevent cross pole contamination.

FEATURES & BENEFITS

PATENTED 'SNAP FAST' CROCODILE JOINTS

Ensures fast and simple installation

DUAL TAP-OFF FOR TWIN SYSTEM

Offers simple 'single fit' installation

KEY CODED AND COLOUR CODED TAP-OFFS

Provides mechanical protection against cross pole contamination

POWERTRACK WITH INTEGRAL END FEED AVAILABLE

COMPLIES WITH WIRING REGULATIONS

Complies with both the requirements of BS EN 61534 and BS 7671:2018 IET Wiring Regulations (18th Edition)

AVAILABLE IN 63A

5 YEAR GUARANTEE



TRACK INTERLINKS AVAILABLE

- Flexibility to achieve maximum floor coverage

KEY CODED TRACK

- Prevents inadvertent mixing of configurations

**END FEED WITH INTEGRAL
TERMINAL BLOCK**

- Track can be supplied with integral end feed on request
- Large terminal capacity feed for up to 16mm² cables

SIMPLIFIED TRACK ORDERING

Track comes complete with:

- Dust Covers
- End Caps
- Fixing Bracket
- Crocodile Joints

**A GENUINE TWIN
POWERTRACK SYSTEM**

- Clean Earth and Standard Earth in one single track
- Single fitting of two circuits for speed of installation

**PRE-ATTACHED SLIDING
SLAB-FIXINGS**

- Ensure secure fixing location of track

**PATENTED 'SNAP FAST'
CROCODILE JOINTS**

- No tools needed, ensures a fast and simple installation

SOCKET SPACINGS

- 300mm socket spacings
- Enables tap-off to be fitted at regular intervals

**KEY CODED AND COLOUR CODED
TAP-OFFS AND SOCKETS**

- Provides mechanical protection against cross pole contamination

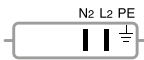
**PRE-ATTACHED SLIDING
DUST COVERS**

- Keeps track clean prior to and during installation

Designed for use with Cablelink Plus Single Pan floorboxes, MK Essentials Floorbox, grommets and Deskpod

63 Amp
System

63 Amp Track



STANDARD GREY
SPN



AUX GREEN SINGLE
PHASE



CLEAN EARTH
RED CE



3 PHASE GREEN TPN



DUAL CE & STD RED /
GREY DUAL



1.2m TRACK

	PE IS EARTHED TO CASE			PE IS EARTHED TO CASE	
PITCH 300MM 4 SOCKETS	UB61233GRY	UB61233GRN	UB61234RED	UB61235GRN	UB61236DUO

2.4m TRACK

PITCH 300MM 8 SOCKETS	UB62433GRY	UB62433GRN	UB62434RED	UB62435GRN	UB62436DUO
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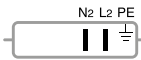
3.6m TRACK

PITCH 300MM 12 SOCKETS	UB63633GRY	UB63633GRN	UB63634RED	UB63635GRN	UB63636DUO
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All 63A underfloor powertrack incorporate shutters and are rated to IP4X. Complies with the requirements of BS EN 61534.
Track comes with the following slab mounting brackets: 1.2m = 1, 2.4m = 1, 3.6m = 2

63 Amp
System

63 Amp System



STANDARD GREY



AUX GREEN



CLEAN EARTH RED



3 PHASE GREEN



DUAL CE & STD
RED / GREY

End Feeds



Standard Grey	Aux Green	Clean Earth Red	3 Phase Green	Dual CE & Std Red / Grey
STANDARD				
UF63GRY	UF63GRN	UF64RED	UF65GRN	UF66DUO
OPPOSITE END FEED				
UF63GRYLH	UF63GRNLH	UF64REDLH	UF65GRNLH	UF66DUOLH

Each opposite End Feed comes with an end cap to close off the powertrack run.
Terminal Capacity = 16mm².

Integral Feed Track



Standard Grey	Aux Green	Clean Earth Red
1.2M* PITCH 300MM 4 SOCKETS		
IFUB61233GRY	IFUB61233GRN	IFUB61234RED
2.4M* PITCH 300MM 8 SOCKETS		
IFUB62433GRY	IFUB62433GRN	IFUB62434RED
3.6M* PITCH 300MM 12 SOCKETS		
IFUB63633GRY	IFUB63633GRN	IFUB63634RED







* Nominal length of Interact Underfloor Power excluding feed section. Feed section is 100mm in length.

Flexible Interlinks



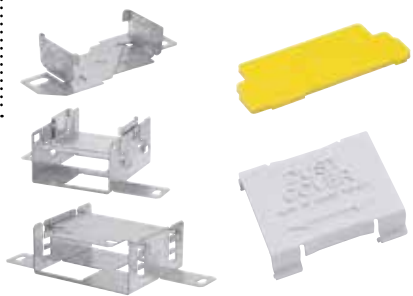
Standard Grey	Aux Green	Clean Earth Red	3 Phase Green	Dual CE & Std Red / Grey
1.2M				
UI6312GRY	UI6312GRN	UI6412RED	UI6512GRN	UI6612DUO
2.4M				
UI6324GRY	UI6324GRN	UI6424RED	UI6524GRN	UI6624DUO
3.6M				
UI6336GRY	UI6336GRN	UI6436RED	UI6536GRN	UI6636DUO

Tap-off Leads

																																																																							
TYPE		PIN POSITION						CABLE / CONDUIT		CURRENT RATING		PROTECTION		3 METRE** 2.5MM ²		4.0MM ²		5 METRE* 2.5MM ²		4.0MM ²		KEY CODES†																																																	
STANDARD GREY						N2	L2	PE	LSF / LSF	13A	FUSED	UT31301C			UT51301C																																																								
									16MM	32A	UNFUSED			UT33201***			UT53201***																																																						
									16MM	13A	FUSED	UT31301			UT51301																																																								
AUX / PHASE 1 GREEN		PE	N1	L1					LSF / LSF	13A	FUSED	UT31302C			UT51302C																																																								
									16MM	32A	UNFUSED			UT33202***			UT53202***																																																						
									16MM	13A	FUSED	UT31302			UT51302																																																								
PHASE 2 GREEN		PE	N1		L2				LSF / LSF	13A	FUSED	UT31310C			UT51310C																																																								
									16MM	32A	UNFUSED			UT33210			UT53210																																																						
									16MM	13A	FUSED	UT31310			UT51310																																																								
PHASE 3 GREEN		PE	N1			L3			LSF / LSF	13A	FUSED	UT31311C			UT51311C																																																								
									16MM	32A	UNFUSED			UT33211			UT53211																																																						
									16MM	13A	FUSED	UT31311			UT51311																																																								
ALL PHASE GREEN CE RED		PE	N1	L1	L2	L3			16MM	28A	UNFUSED			UT33205			UT53205																																																						
		CE	N1	L1				PE	LSF / LSF	13A	FUSED	UT31304C			UT51304C																																																								
									16MM	32A	UNFUSED			UT33204***			UT53204***																																																						
DUO (RED)									16MM	13A	FUSED	UT31304			UT51304																																																								
		CE	N1	L1	N2	L2	PE	20MM	28A	UNFUSED						UT53206																																																							

Tap-offs are supplied as single cables inside steel flexible conduit, except those with 'C' suffix, which are supplied with 3 or 4 core LSF flex, as appropriate. * Unfused tap-offs in excess of 3m, must only be used on powertrack protected with a 32A (or less) circuit protection device. ** 3M tap offs. Stated length refers to length of wires within the unit, not the conduit length. Conduit length will be between 2.7 and 2.8 meters in length when fully extended. When un-extended, conduit length will decrease by a further 0.1 to 0.2 meters. Minimum length of un-extended conduit will be 2.5 meters. This is to comply with BS7671:2008 18th Edition IET Wiring Regulations. ¹Key codes shown are from the perspective of the Power Track socket, the tap-off key code will be a mirror image when viewed from underneath. ²Add 'DE' suffix for Dual Earth High Integrity Earthing, e.g. UT51301DE. Unfused tap-offs – High Integrity Earthing as standard. Fused tap-offs – add '607' suffix for High Integrity Earthing by use of a single 4mm² earth conductor, e.g. UT51301607 ***

Other Components



PART NO.	DESCRIPTION
UK1	Additional Slab Brackets
UK3	Additional End Plates
UK5*	Height Adjustable Slab Bracket – Track 17mm, 27mm And 39mm
UK5F*	Height Adjustable Slab Bracket – End Feed 17mm, 27mm And 39mm
UKDC	Additional Dust Cover

* Fixing brackets should be positioned within 300mm from either end of a track run and either side of all joints. Minimum support requirement 3.6m length = 4 brackets, 2.4m length = 3 brackets, 1.2m length = 2 brackets.

* In the published 18th Edition of the IET Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition – Section 607)



AVAILABLE NOW
NEW - ABOVE THE DESK MODULES

Stylish and ergonomically designed desk modules that provide convenient user access to power, data and USB charging.

Additional user flexibility thanks to the configurable 'tunnel' allowing for two data modules or a blanking plate.

Designed with an integral 'C' clamp' and supplied with a 2m power lead and moulded BS 13A plug for a fast and easy install.

Discover more - see page 27

MK ESSENTIALS FLOORBOX

RANGE INTRODUCTION

A value range where quality counts.

DESIGNED FOR SMALLER BUDGETS

Low price shouldn't mean low quality. Whether it's a commercial office or an educational facility, the MK Essentials Floorbox delivers a versatile solution at prices that are impossible to ignore.

DESIGNED FOR TRUSTED RELIABILITY

With the quantity and performance you'd expect from MK, robust construction, tested to accept a 3,000N load and backed by a 5-year guarantee. A solution you, and the end user, can trust.

DESIGNED FOR INSTALLERS FIRST

Readily available and distributed nationally, the MK Essentials Floorbox comes with flange fixings, an adjustable self-levelling ratchet system and side knockouts to provide a quick and easy installation. A perfect fit every time.

DESIGNED FOR FLEXIBLE FUNCTIONALITY

One box, three compartments, multiple accessory plates. Configure your MK Essentials Floorbox with power and/or data to suit end-user needs. Featuring a reversible lid and tool-free frame release for ease and convenience when changing floor layouts.

HOW TO SPECIFY

A 3 compartment Floorbox designed to meet EN50085-2-2. Product to incorporate a ratchet self-levelling system to enable rapid fitting of the frame and lid. Pan designed to incorporate side knockouts and compartment segregation. Supported by a 5-year product guarantee

FEATURES & BENEFITS

TESTED TO ACCEPT 3000N LOAD

SUPPORTS CAT 6 AND CAT 6A

ROBUST CORD CAPS

Designed for reliable retention

TOOL-FREE FRAME RELEASE

Quick and convenient access for changes in floor layout

RATCHET LEVELLING SYSTEM

Self levelling and rapid fitting of the frame and lid

FLANGE FIXINGS

Aids fast and simple installation

REMOVABLE AND REVERIBLE LID

Improved accessibility

5 YEAR GUARANTEE

MK ESSENTIALS FLOORBOX

TESTED TO EN50085-2-2 TO ACCEPT 3000N LOAD

ROBUST CORD CAPS

- Designed for reliable retention

OUTLET BOX COLOUR

- Grey (RAL 7042)

TOOL-FREE FRAME RELEASE

- Quick and convenient access for changes in floor layout

FLANGE FIXINGS

- Fast and simple installation

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

- Suitable for use with Cat6 data cables, subject to compliance with cable manufacturers bending radius requirements.

HANDLE

- Designed for easy access

LID

- Simple carpet cut out - allows for 8mm carpet thickness
- Easily removable and reversible for improved accessibility
- Lid can be hinged from either of two sides

- Product information label conveniently located inside lid for future reference

PRACTICAL RANGE OF POWER AND DATA PLATES

- Suitable for numerous applications

ONE PIECE FRAME

- Robust metal design
- 80mm pan depth - Ideal for most applications

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Device plate positioned to provide 32mm wiring space
- Plug top clearance of 40mm assuming a floor covering thickness of 4mm

SIDE KNOCKOUTS

- Pre-cut for fast and simple installation
- 2x25mm and 2x 20mm per compartment




MK ESSENTIALS FLOORBOX




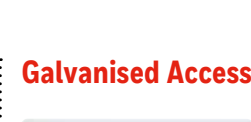


The MK Essentials Floorbox is ideal for use in commercial offices, education facilities or any other environment requiring underfloor access to power and/or data.

Simply order your three compartment floorbox and select accompanying accessory plates from the practical range below.

Floorbox

	Part Number	Description
	CRE260-80-3GRY	MK Essentials 3 Compartment, 80mm Raised Floor Box
<small>Lid - allows for 8mm carpet thickness. Carpet infill - 234 x 202mm Suitable for use with Cat6 data cables, subject to compliance with cable manufacturers bending radius requirements.</small>		

Galvanised Accessory Plates - Serviced

	Standard Part No.	Description
	CXP10730GALV	2G 13A Switchsocket Outlet - Dual Earth
	CXP10730NSGALV	2G 13A Switchsocket Outlet Non Standard
	CXP10730CEGALV	2G 13A Switchsocket Outlet Clean Earth
	CXP10730NSCEGALV	2G 13A Switchsocket Outlet Non Standard Clean Earth
	CXP10760GALV	2G 13A Switchsocket Outlet - Side Wired
	CXP10720GALV	3G 13A Switchsocket Outlet - Dual Earth
	CXP10731GALV	2G 13A Unswitched Outlet
	CXP10731NSGALV	2G 13A Unswitched Outlet Non Standard
	CXP10731CEGALV	2G 13A Unswitched Outlet Clean Earth
	CXP10731NSCEGALV	2G 13A Unswitched Outlet Non Standard Clean Earth

Galvanised Accessory Plates - Unserviced

	Standard Part No.	Description
	CXP20201GALV*	4 x LJU6C Aperatures (knockouts)
	CXP30201GALV	Blank Plate
	CXP20301GALV	6 x LJU6C Aperatures
	CXP30502GALV	2 x 45 x 45mm Module Aperatures
	CXP20215GALV**	4 x LJU6C Wave Aperatures
	CXP20200GALV	2 x LJU6C Aperatures
	CXP20205GALV	4 x Krone Aperatures
	CXP20500GALV	4 x ST Fibre Connector Aperatures
	CXP30503GALV	1 x Euro 150 x 50mm Aperatures

*Data Aperatures are supplied as knockouts.
**Provides greater wiring space for use with Cat 6 data cables.



CABLELINK PLUS SINGLE PAN BOX

RANGE INTRODUCTION

Cablelink Plus Single Pan Box provides an effective interface between services beneath the floor and the office environment.

Designed to offer robustness and constructed with a single piece metal frame, the floorbox is available with 1, 3 and 4 compartments and a choice of 70mm or 95mm box depths to cater for floor voids of restricted space.

HOW TO SPECIFY

A range of 1, 2, 3 and 4 module single pan floorboxes designed to meet EN50085-2-2. Product to incorporate a ratchet self-levelling system enable rapid fitting of the frame and lid. Pan design to incorporate side knockouts and compartment segregation and be available in both 70mm and 95mm pan depths. Product to have a self-closing lid with locking option available. Provision of RCD protection to support compliance to 18th Edition Wiring Regulations.

FEATURES & BENEFITS

- TESTED TO EN 50085-2-2 TO ACCEPT 5000N LOAD
- SUPPORTS CAT 6 AND CAT 7
70mm through the use of the wave plate
- SHALLOW VOIDS ACCOMMODATED
With 70mm pan depth
- ADJUSTABLE DEVICE PLATE
To increase wiring space or greater plug top clearance
- COMPLIES WITH WIRING REGULATIONS
Provision of RCD protections supports IET 18th Edition Wiring Regulations
- SELF-CLOSING LID
In accordance with IEC 61534-22
- FLOORBOXES ARE RATED IP2X IN ACCORDANCE WITH BS EN 50085-1
- WIDE RANGE OF POWER AND DATA ACCESSORY PLATES
- 5 YEAR GUARANTEE

CP SINGLE
PAN BOX

CP SINGLE
PAN BOX

Cablelink Plus Single Pan Box

TESTED TO EN50085-2-2
TO ACCEPT 5000N LOAD

ROBUST CORD CAPS

- Designed for improved retention

OUTLET BOX COLOUR

- Grey (RAL 7011)

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

OPTIONAL CABLE RETAINERS



FLANGE FIXINGS

- Fast and simple installation

WIDE RANGE OF POWER AND DATA PLATES

- Suitable for all applications
- Pre-configured options available for fast and simple installation on site

HANDLE

- Designed for improved accessibility

OPTIONAL LOCKABLE LID

- Added security when not in use

LID

- Simple carpet cut out
- Easily removable and reversible for improved accessibility
- Lid can be hinged from either of two sides
- Self closing in accordance with IEC 61534-22

OPTIONAL TETHER

- Added security
- Eliminates lid losses

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Device plate positioned to provide 35mm wiring space for 70mm deep box and 45mm wiring space for 95mm deep box
- Stagger plate only available within 3 compartment floorbox

ONE PIECE FRAME

- Robust metal design
- 70mm pan depth is ideal for shallow applications and plenum floors
- 70mm and 95mm pan depths available

SIDE KNOCKOUTS

- Pre-cut for fast and simple installation

COMPARTMENT SEGREGATION

Cablelink Plus Single Pan Box

The Single Pan Box is ideal for use with the Interact Underfloor Power System – see page 9 for more details.

Floorbox selector guide

- Step 1** Choose either a 1, 3 or 4 compartment box
- Step 2** Choose the depth required (70mm or 95mm)
- Step 3** Choose which accessories are required (See below for accessory plate options)
- Step 4** Do the power modules require tap-offs?
- Step 5** If yes choose which type? (see page 14 for tap-off options)

Floorbox



Compartments	1	3	4
Box Size	100 x 200mm	265 x 265mm	340 x 265mm
70mm Depth	CRB100UK-70-1GRY**	CRB265UK-70-3GRY*	CRB340UK-70-4GRY*
95mm Depth	CRB100UK-1GRY**	CRB265UK-3GRY*	CRB340UK-4GRY*

*Lockable option available – add suffix 'L' e.g CRB265UK-3GRYL. Floorbox lids must never be locked whilst in use. Box not supplied with key. 95mm depth floorbox device plate provides wiring space of 45mm allowing for Cat 6 / Cat 7 compliance. 70mm depth floorbox device plate provides wiring space of 35mm. Spare lids and frames are available, please see page 49 for details. **These boxes will only accept CXP10745 for power plate option.

Accessory Plates

Accessory plates are common to several ranges, they will fit all Cablelink Plus Single Pan, Screed and Onix Plus™ floorboxes.

Serviced Power Plates

Part No.	Description
CXP10730*=-	2G 13A Switch Socket Outlet
CXP10730NS*=-	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731*=-	2G 13A Socket Outlet
CXP10731NS	2G 13A Socket Outlet Non Standard (T Pin)
CXP10745	2G 13A Angled Socket Outlet
CXP10735*	2G 13A RCD 30mA Passive Switch Socket Outlet**
CXP10760	2G 13A Switch Socket Outlet – Side Wired
CXP10720	3G 13A Socket Outlet
CXP10740	2G 16A 2P+E German Socket Outlet** Non UK

* For Clean Earth wiring – add suffix 'CE' e.g CXP10730CE.
Clean Earth Switched Power plates are identified with red rockers, unswitched with red sockets.
** Requires a 45mm wiring space, not suitable with 70mm depth boxes
- Supplied with the MK Electric 3-pin 'child resistant shutter system'.

Unserviced Data Plates

Part No.	Description
CXP20200	2 x LJU6C Apertures
CXP20201*	4 x LJU6C Apertures (Knockouts)
CXP20215	4 x LJU6C Wave Apertures
CXP20205	4 x Krone Apertures
CXP20301	6 x LJU6C Apertures
CXP30501	2 x Euro 50 x 50mm Apertures
CXP30503	1 x Euro 150 x 50mm Aperture
CXP30502	2 x 45 x 45mm Module Apertures
CXP20500	4 x ST Fibre Connector Apertures
CXP30201	Blank Plate

* Data apertures are supplied as knockouts.

Optional Extras

Part No.	Description
CX-01	Cable Retainers (Pack of 10)
CX-02	Lid Tether Kit (Pack of 5)
CX-03GRY	Cord Cap for 100 x 200mm Lid – Grey (Pack of 10)
CRXKEY	Lock Key (Pack of 2)




CP SINGLE PAN BOX

Pre-Configured Range







To aid fast and simple product selection, storage and installation, a selection of popular pre-configured 95mm floorboxes are available to order:

- 1, 3 or 4 compartment options
- Supplied with Service Power/or Unserved Data Plates

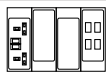




1 Compartment Configuration – 100 x 200mm Floorbox

	Part no.	Accessory Plate 1	Tap-Off
	CRP100-RCD	RCD Socket	NA
	CRP101	2G 13A Angled/Unswitched Socket Outlet	NA
	CRP121	1G 13A Switch Socket and 2 x LJU6C aperture	NA

3 Compartment Configurations – 265 x 265mm Floorbox

	Part no.	Accessory Plate 1	Accessory Plate 2	Accessory Plate 3	Tap-Off
	CRP321	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRP321W	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 GREY 4mm² 3m
	CRP333	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRP333W	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 GREY 4mm² 3m
	CRP334	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	NA
	CRP334W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	UT33201 GREY 4mm² 3m
	CRP336	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	NA
	CRP336W	2G Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	UT33204 CE RED 4mm² 3m
	CRP337W	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	4G Data Plate LJU6C	UT33201 GREY 4MM² 3m
	CRP337W-5	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	4G Data Plate LJU6C	UT53201 GREY 4MM² 5m
	CRP338W	2G RCD Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	UT33204 CE RED 4MM² 3m
	CRP338W-5	2G RCD Switch Socket Outlet Clean Earth	2G Switch Socket Outlet Clean Earth	4G Data Plate LJU6C	UT53204 CE RED 4mm² 5m

4 Compartment Configurations – 340 x 265mm Floorbox

	Part no.	Accessory Plate 1	Accessory Plate 2	Accessory Plate 3	Accessory Plate 4	Tap-Off
	CRP434	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	NA
	CRP434W	2G Switch Socket Outlet	2G Switch Socket Outlet	Blank	4G Data Plate LJU6C	UT33201 GREY 4mm² 3m
	CRP444	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	NA
	CRP444W	2G Switch Socket Outlet	2G Switch Socket Outlet	4G Data Plate LJU6C	4G Data Plate LJU6C	UT33201 GREY 4mm² 3m
	CRP435W	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT33201 GREY 4MM² 3M
	CRP435W-5	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT53201 GREY 4mm² 5m
	CRP437W	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT33204 CE RED 4mm² 3m
	CRP437W-5	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT53204 CE RED 4mm² 5m
	CRP438W	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT31304 CE RED 2.5mm² 3m
	CRP438W-5	2G RCD Switch Socket Outlet	2G RCD Switch Socket Outlet	Blank	4G Data Plate LJUC6	UT51304 CE RED 2.5mm² 5m



GROMMETS

RANGE INTRODUCTION

Power, data and accessory grommets offer an ideal solution for a fast, simple and unobtrusive installation.

Easy to install and relocate if necessary, Grommets are ideal for use with DeskPod™, perfect for any office environment.

FEATURES & BENEFITS

ROTARY OR SPLIT LID VARIATIONS

To meet all requirements

ONE TOUCH SELF-ADJUSTING MECHANISIM

For a fast, simple and secure installation

SPRING LOADED BLADES

For fast and simple installation

LID TETHER

For added security

WIDE RANGE

Available in 5” and 8”

5 YEAR GUARANTEE

HOW TO SPECIFY

A range of 5” and 8” power, data and accessory grommets for use on underfloor power systems. Access to be available via rotary or split lid configurations. A one touch self-adjusting fixing mechanism featuring spring loaded blades to enable fast and simple installation. Integral lid tethers to provide additional security and prevent lid losses.

Access Grommets

- GROMMET COLOUR
- Grey (RAL 7011)

- ROTARY AND SPLIT LID VARIATIONS
- Accept up to 2 x 40mm flexible conduits for maximum data cable access

SIMPLE ACCESS

- Simple 'push fit' for fast installation
- Crush ribs for secure fixing

SPLIT LID OPTION

- Integral foam inserts for secure cable grip to minimise pressure loss in plenum floors

REVERSIBLE CENTRE LID

- 6mm carpet cut out for improved installation aesthetics

Serviced Grommets

- GROMMET COLOUR
- Grey (RAL 7011)

SPRING LOADED BLADES

- Fast and simple installation
- Secure fixing guaranteed
- One touch self adjusting fixing mechanism

LID TETHER

- Added security
- Eliminates lid losses

ANGLED POWER SOCKETS

- Provide strain relief clearance for moulded plugs

BACK BOX

- 28mm back box pre-fitted for ease of installation

Grommet Boxes

Grommets provide an aesthetic alternative to floorboxes and offer the additional benefits of being fast and simple to install.

- Choose from 5" or 8" grommets
- Range includes both Access Grommets and Serviced Grommets
- Ideal for use with DeskPod™ (8" Grommet)

5" Access Grommet Boxes



Part Number	Description
GR500GRY	Simple Access Grommet
GR510GRY	Secure Access Grommet
GR100GRY	Split Lid Grommet

5" Power Grommet Boxes



Part Number	Description
GR200GRY	Power Grommet BS 1363 MK Switch Socket Outlet
GR201GRY	Power Grommet MK Non-Standard Switch Socket Outlet
GR205GRY	Power Grommet BS546 5A MK Switch Socket Outlet

5" Data Outlet Grommet Boxes



Part Number	Description
GR5050GRY	50 x 50mm EURO Accessory Grommet (unserviced)
GR800GRY	2 x LJU6C Grommet (unserviced)

GROMMETS

8" Grommets
Larger grommets have an increased cord outlet size making them ideal to house DeskPod™ conduits.

8" Access Grommets



GR855GRY

Part Number	Description
GR850GRY	Simple Access Grommet (push fit)
GR855GRY	Secure Access Grommet*

* Comes with fixing clips



DESKING SOLUTIONS

RANGE INTRODUCTION

MK’s range of Desking Solutions offer a comprehensive range of pre-configured above the desk, in desk and under desk modules, providing convenient access to power and data services to the end user, where it is needed.

Delivering the final link in the chain of the power distribution circuit, MK’s Deskpod under desk range are compatible with the Interact Underfloor Power System, Cablelink Plus Floorboxes and Grommets.

The range incorporates in-built product design features to address the increasing and varied demands of individual requirements.

HOW TO SPECIFY

A range of stylishly designed desk modules to provide convenient access to power and data services with provision for data modules, RCD and RCBO protection. Product to be manufactured from anodised aluminium and polycarbonate to provide, chemical, colour fade, impact resistance and retardant properties.

FEATURES & BENEFITS

ROBUST AND STYLISH DESIGN

Distinguished simple design manufactured from anodised aluminium and polycarbonate, also offering chemical, colour fade, impact resistance and flame retardance

AVAILABLE WITH DUAL USB CHARGING MODULE

Ideal to meet the growing demand to charge mobile devices such as tablets, smart phones and cameras

COMPLIES WITH WIRING REGULATIONS

Provision of RCD protections supports IET 18th Edition Wiring Regulations

5 YEAR GUARANTEE

DESKING SOLUTIONS

Above the Desk

MK's Above The Desk modules provide easy access to power and data to the desk-top. Featuring a stylish and ergonomic design, integral 'C' clamp for fast installation and configurable 'tunnel' for data connections it enhances the functionality of the workspace and provides the ideal solution for any workstation.



Above the Desk Configurations

	Part Number	Description
	DPA2010USB	2 x 13A Sockets Dual USB 1 x Blank Plate 1 x LJU6C Data Plate (2 Apertures) Pre-wired with 2M power lead with BS1363 plug
	DPA3010	3 x 13A Sockets 1 x Blank Plate 1 x LJU6C Data Plate (2 Apertures) Pre-wired with 2M power lead with BS1363 plug

DESKING SOLUTIONS

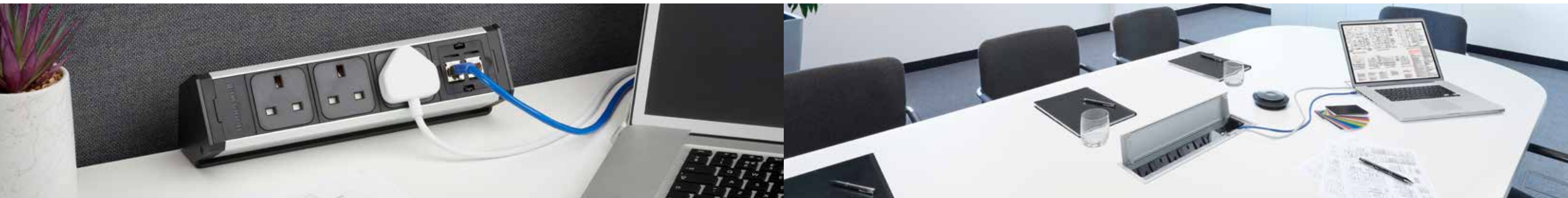
In the Desk

MK's In the Desk modules provide easy access to power and data to the desk-top. Featuring a discrete design, soft close lid and configurable 'tunnel' for data connections it enhances the functionality of the workspace and provides the ideal solution for shared workstations and meeting room tables.



In the Desk Configurations

	Part Number	Description
	DPI2010USB	2 x 13A Sockets Dual USB 1 x Blank Plate 1 x LJU6C Data Plate (2 Apertures)
	DPI3010	3 x 13A Sockets 1 x Blank Plate 1 x LJU6C Data Plate (2 Apertures)
	DPC1120	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 2M
	DPC1130	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 3M
	DPC1150	Power lead 1.5mm ² , 13A plug to 3 Pole (female) connector 5M



DESKPOD™

Under the Desk

MK's Under the Desk modules provide easy access to power and data for the workstation. Featuring a stylish anodised aluminium design, and a range of pre-configured options including circuit protection options, USB charging and pre-wired tap offs, DeskPod is a versatile solution for any workplace.



TAP-OFFS

Pre-wired to tap-offs available for quick installation – see page 8



8" GROMMET

Provide access where DeskPods are contained within the floor void – visit mkelectric.co.uk

INCOMING SUPPLY

- Conduit entry available for hard wiring tap-offs
- Flex entry available for hard wiring to a BS1363 plug
- 3 and 4 pole Wago or Wieland connectors

PROTECTION

- Choice of fuse or RCBO

ANODISED ALUMINIUM EXTRUDED 'POD'

- Styled and finished to be aesthetically pleasing
- Robust construction ensures durability whilst in use

INTEGRAL FIXING BRACKET

- In-built 2 position bracket to allow fast and simple mounting of the unit



UNFUSED

SOCKET OUTLETS

- Choice of four or six socket outlets

SWITCH

- Double Pole Neon Switch available
- Neon Indicator to provide user with visible indication of power supply
- Positive Switch Action – audible indication of switching
- Switch Cover (with viewing cut out) – protects the unit from inadvertent switching
- Double Pole Switch – all contacts are disconnected for added user safety

WIRING CONFIGURATION

- Range includes Standard, Clean Earth or High Protective conductor currents compliant products.

EXTERNAL EARTH LEAD

- All power units include an earth lead to allow bonding to any metalwork, e.g. desk installation



DESKPOD™

Data DeskPods

Part no.	N° of modules	EURO	LJU6C
DPD2000	4	✓	-
DPD2100	4	-	✓


Pre-configured Power DeskPods

The modules are positioned within the DeskPod left to right as they appear in the table below.


Part no.	Incoming Supply	Circuit Protection (max current rating)	Neon Switch	Dual USB Ports	N° of Sockets	End Cap
DPP4010	None	12.5A Unit Fuse	Yes	-	4	Blank
DPP4011WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	16A RCBO	-	-	4	Wieland GST (3P)
DPP4012WGRN-5	Pre-wired to Tap-Off (UT53202 GREEN, 4mm² 5m)	12.5A Unit Fuse	Yes	-	4	Wieland GST (3P)
DPP4013WGRN-5	Pre-wired to Tap-Off (UT53202 GREEN, 4mm² 5m)	16A RCBO	-	-	4	Wieland GST (3P)
DPP4015	None	12.5A Unit Fuse	Yes	Yes	4	Blank
DPP4016	Wieland GST (3P)	12.5A Unit Fuse	Yes	Yes	4	Blank
DPP4019	Pre-wired to Tap-Off (UT33202 GREEN, 4mm² 3m)	16A RCBO	Yes	-	4	Blank
DPP4110	None	10A RCBO	-	-	4	Blank
DPP4110WRED	Pre-wired to Tap-Off (UT33204 CE RED, 4mm² 3m)	10A RCBO	-	-	4	Blank
DPP4120	None	20A RCBO	-	-	4	Blank
DPP4120WGRY	Pre-wired to Tap-Off (UT33201 GREY, 4mm² 3m)	20A RCBO	-	-	4	Blank
DPP4120WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	20A RCBO	-	-	4	Blank
DPP4120WRED	Pre-wired to Tap-Off (UT33204 CE RED, 4mm² 3m)	20A RCBO	-	-	4	Blank
DPP4120WRED-5	Pre-wired to Tap-Off (UT53204 CE RED, 4mm² 5m)	20A RCBO	-	-	4	Blank
DPP6010	None	12.5A Unit Fuse	Yes	-	6	Blank
DPP6011	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	16A RCBO	-	-	6	Wieland GST (3P)
DPP6012WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	10A RCBO	-	-	6	Wieland GST (3P)
DPP6013WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	20A RCBO	-	-	6	Blank
DPP6015	None	12.5A Unit Fuse	Yes	Yes	6	Blank
DPP6016	Wieland GST (3P)	12.5A Unit Fuse	Yes	Yes	6	Blank
DPP6110	None	10A RCBO	-	-	6	Blank
DPP6110WGRY	Pre-wired to Tap-Off (UT33201 GREY, 4mm² 3m)	10A RCBO	-	-	6	Blank
DPP6110WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	10A RCBO	-	-	6	Blank
DPP6110WRED	Pre-wired to Tap-Off (UT33204 CE RED, 4mm² 3m)	10A RCBO	-	-	6	Blank
DPP6110WRED-5	Pre-wired to Tap-Off (UT53204 CE RED, 4mm² 5m)	10A RCBO	-	-	6	Blank
DPP6120WGRY	Pre-wired to Tap-Off (UT33201 GREY, 4mm² 3m)	20A RCBO	-	-	6	Blank
DPP6120WGRY-5	Pre-wired to Tap-Off (UT53201 GREY, 4mm² 5m)	20A RCBO	-	-	6	Blank
DPP6120WRED	Pre-wired to Tap-Off (UT33204 CE RED, 4mm² 3m)	20A RCBO	-	-	6	Blank
DPP6120WRED-5	Pre-wired to Tap-Off (UT53204 CE RED, 4mm² 5m)	20A RCBO	-	-	6	Blank

Please refer to page 10 for tap off and underfloor track information

Power Leads

	Part Number	Description
Wieland GST Connector		
	DPC1120	Power lead 1.5mm², 13A plug to 3 Pole (female) connector 2 metres
	DPC1130	Power lead 1.5mm², 13A plug to 3 Pole (female) connector 3 metres
	DPC1150	Power lead 1.5mm², 13A plug to 3 Pole (female) connector 5 metres

Interlink Cables

	Part Number	Description
Wieland GST Connector		
	DPC2205	Interlink cable (1.5mm²,) 3 Pole connector 0.5 metre
	DPC2210	Interlink cable (1.5mm²,) 3 Pole connector 1 metre

Refer to BS 6396 where appropriate.
In the 18th Edition of the IET Wiring Regulations, these requirements are found in Regulation 543.7



DESKPOD™ CASE STUDY

SIR CHRIS HOY VELODROME, GLASGOW

The Sir Chris Hoy Velodrome, part of the Emirates Arena complex, is a state-of-the-art facility owned by Glasgow City Council. The joint venue is located on a 10.5 hectare site in Dalmarnock and provides a first class venue that will inspire thousands of youngsters to follow in the footsteps of some of their favourite sport stars.

As part of the £113m development, MK Electric’s Power Distribution Systems was chosen by the architect group, 3DReid, and consultant, Arup, in conjunction with the project managers to supply three main products to the site; the Onix Plus screed floorbox, the Cablelink Plus single pan raised floorbox and the DeskPod.

“Further to workshops with the design team, FES selected MK Electric as we believed their product range would be the best solution to complement the building fabric.”

Chris Allen, senior operations director, FES



ONIX PLUS™ CASE STUDY

THE SCOTTISH NATIONAL PORTRAIT GALLERY, EDINBURGH

The Scottish National Portrait Gallery (SNPG) underwent an ambitious restoration project with an entirely new presentation of its world-famous collection.

MK Electric was awarded the contract to provide a heavy duty solution for floor power and data distribution. All new services were required to be flexible and provide the gallery with the ability to host a variety of different exhibitions, whilst discreetly leaving minimal impact to the final finish.

To meet the SNPG'S objectives, 13 Onix Plus™ Floorboxes and Power Grommets with snorkel lids, and 90 of the same solution with blank lids were installed.

“For us, a design that was able to supply display cases, and gallery spaces with lighting and data as unobtrusively as possible was key, ensuring that the Portrait Gallery exhibits are the only focus of visitors’ experience.”

Robert Galbraith,
Programme Manager for the Scottish National Portrait Gallery

ONIX PLUS™

RANGE INTRODUCTION

Onix Plus™ Floorboxes and Power Grommets are a unique, innovative solution to hard floor power and data distribution requirements in screed floors with coverings such as laminate, wood, stone and marble.

Stylish and robust design offers superior load bearing performance and greater durability. Floorbox lids with snorkel or plain lid provide wet wash solutions.

Used in conjunction with the Cablelink Plus Screed Ducting System these products are ideal for reception areas, offices, airports, shopping malls and exhibition halls.

HOW TO SPECIFY

A range of 3 and 4 compartment floorboxes and grommets to supply power and data services in screed floor systems. Products to be wet washable to IP44 when products are not in use and tested to EN50085-2-2 to accept 10,000N loads. Adjustable to accommodate floor covering thicknesses between 12mm and 30mm. Provision of RCD protection to support compliance to 18th Edition Wiring Regulations. Available in Aluminium, Nickel and Brass colour options.

FEATURES & BENEFITS

- IP44 RATED**
Wet washable and IP44 rated when not in use
- TESTED TO EN 50085-2-2 TO ACCEPT 10,000N LOAD**
5kN for Onix Plus Grommet
- COMPLIES WITH WIRING REGULATIONS**
Provision of RCD protections supports IET 18th Edition Wiring Regulations
- SUPPORTS CAT 6**
- FLEXIBLE SOLUTION**
Selection of lid recess depths available, allowing for various floor depths
- WIDE RANGE OF POWER AND DATA ACCESSORIES**
- 5 YEAR GUARANTEE**

Onix Plus™ Floorbox with Snorkel Cord Outlet Lid

TESTED TO EN50085-2-2
TO ACCEPT 10,000N LOAD

SNORKEL CORD OUTLET

- Design allows access of plug tops
- Supplied with a 9mm wide flange to cater for poorly cut tile infills

WET WASHABLE

- Plain lid and snorkel design allows floor to be washed even when in use
- The lid will withstand 10mm of standing water when in use

ATTRACTIVE, AESTHETIC LIDS

- Stylishly designed
- Recess depth options available to suit

ROBUST LOAD PLATE

- Superior load bearing performance
- Ideal for areas of heavy foot traffic
- A tile lifter should be used to lift all Onix Plus lids

SQUARE BOX OPTION

- 90° rotation of floorbox for system flexibility

COMPARTMENT SEGREGATION

- Set at 35mm as standard
- Height adjustable – 25 to 45mm with appropriate CUBA kit
- Deeper Screed depths have fixed wiring spaces

SERVICE OUTLET BOX

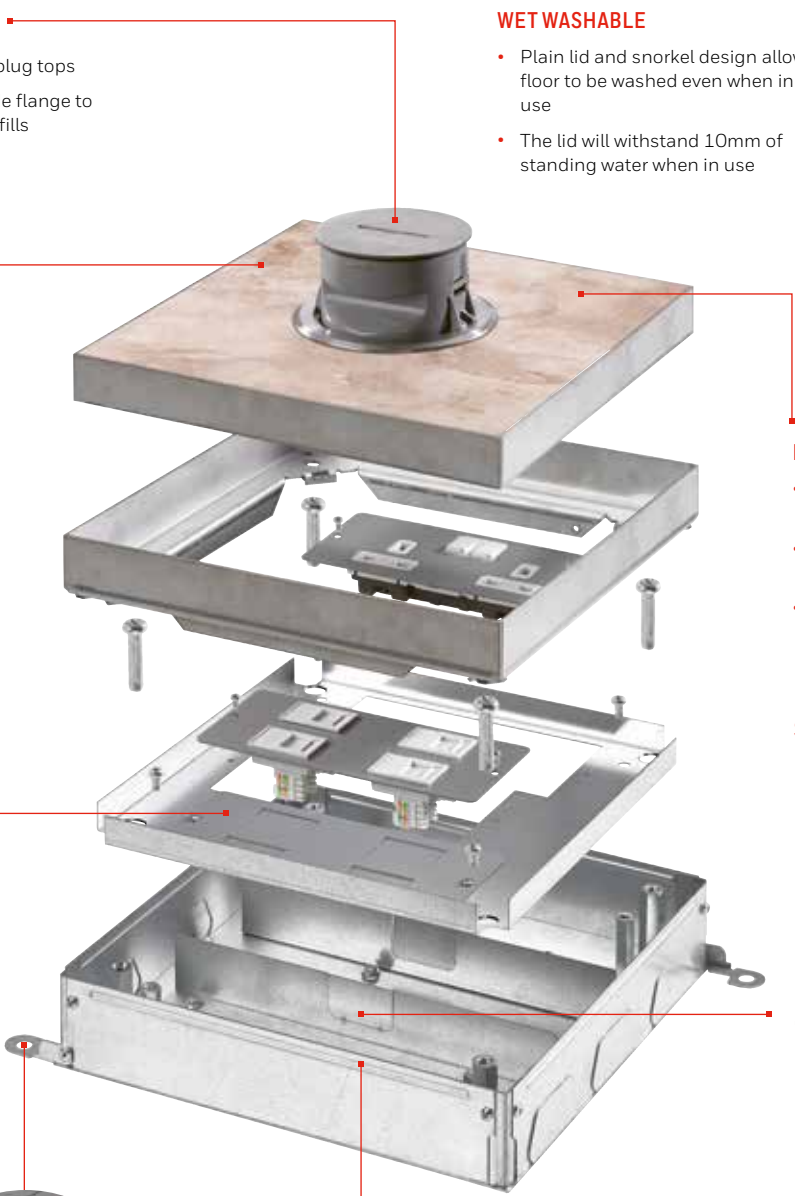
- Option of two screed depths: 55-80mm and 80-110mm
- Deeper screed depths available on request
- Flat sided base design ensures a stronger screed solution and faster taping

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

BASE FIXING FEET

- 'Fast fix' installation




Onix Plus™ Boxes and Snorkel Lids

The Base Units are installed prior to screeding. Designed for use with the Cablelink Plus Screed Ducting System (see page 53 for more details). Snorkel design allows floor to be washed even when in use – IP44 when not in use, IP2 x when in use.

Onix Plus Box Selector Guide

- Service Outlet Boxes and Junction Boxes are ordered as two parts – “Base” and “Lid”
- Base – identify screed depth, number of compartments required and preferred box size
- Lid – choice of lid type, available with and without snorkel
- Junction Box – supplied complete with disposable steel screed lid and cable flyover
- Accessory Plates – select from wide range of power and data see page 43 for details

Screed Base Units: Standard

	Base size Compartment	265 x 265mm 3	340 x 340mm 4
	SCREED 55-80MM 35MM WIRING SPACE	NXB265UK-3	NXB340UK-4
	SCREED 80-110MM 35MM WIRING SPACE	NXB265XUK-3	NXB340XUK-4

Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit - part number CUBA-1.
Supplied with PVC ducting side plates. Number of ducting knockouts varies by size:
265 x 265mm – 3 x 60 x 25mm and 340 x 340mm – 3 x 90 x 35mm. see page 43 for alternative plates.
If screed depth is 55-65mm, reduce height by use of CUBA-1 and use side entry power socket outlets – see page 43.

Junction Boxes

	Size	265 x 265mm	340 x 340mm
	55-80MM	NXJ265UK	NXJ340UK
	80-110MM	NXJ265XUK	NXJ340XUK

Disposable steel screed lid and cable flyover supplied as standard. LIDS MUST BE ORDERED SEPARATELY.
Supplied with four side adaptor plates, 4 PVC ducting plates. Number of ducting knockout varies by size:
265 x 265mm – 3 x 60 x 25mm and 340 x 340mm – 3 x 90 x 35mm. see page 43 for alternative plates.
Increased screed depth junction boxes available on request.

Box Lid: Snorkel Lid

	Size	265 x 265mm	340 x 340mm
	Depth 80-110 MM		
	RECESS DEPTH 15MM	NXLS265X-15	NXLS340X-15
	RECESS DEPTH 20MM	NXLS265X-20	NXLS340X-20
	RECESS DEPTH 25MM	NXLS265X-25	NXLS340X-25
	RECESS DEPTH 30MM	NXLS265X-30	NXLS340X-30

See page 77 to determine the minimum screed depth/finished floor depth combination required to enable the snorkel lid to close.
All supplied as stainless steel lid with snorkel. Lids are supplied with frame and fittings.

Onix Plus™ Floorbox with Edge Cord Outlet Lid

TESTED TO EN50085-2-2
TO ACCEPT 10,000N LOAD

ROBUST CORD CAPS*

- Designed for improved retention

ATTRACTIVE, AESTHETIC LIDS

- Stylishly designed
- Lid options allow for various floor coverings to be used

ROBUST LOAD PLATE

- Superior load bearing performance
- Ideal for areas of heavy foot traffic
- A tile lifter should be used to lift all Onix Plus lids

COMPARTMENT SEGREGATION

- Set at 35mm as standard
- Height adjustable – 25 to 45mm with appropriate CUBA kit
- Deeper Screed depths have fixed wiring spaces

OUTLET BOX

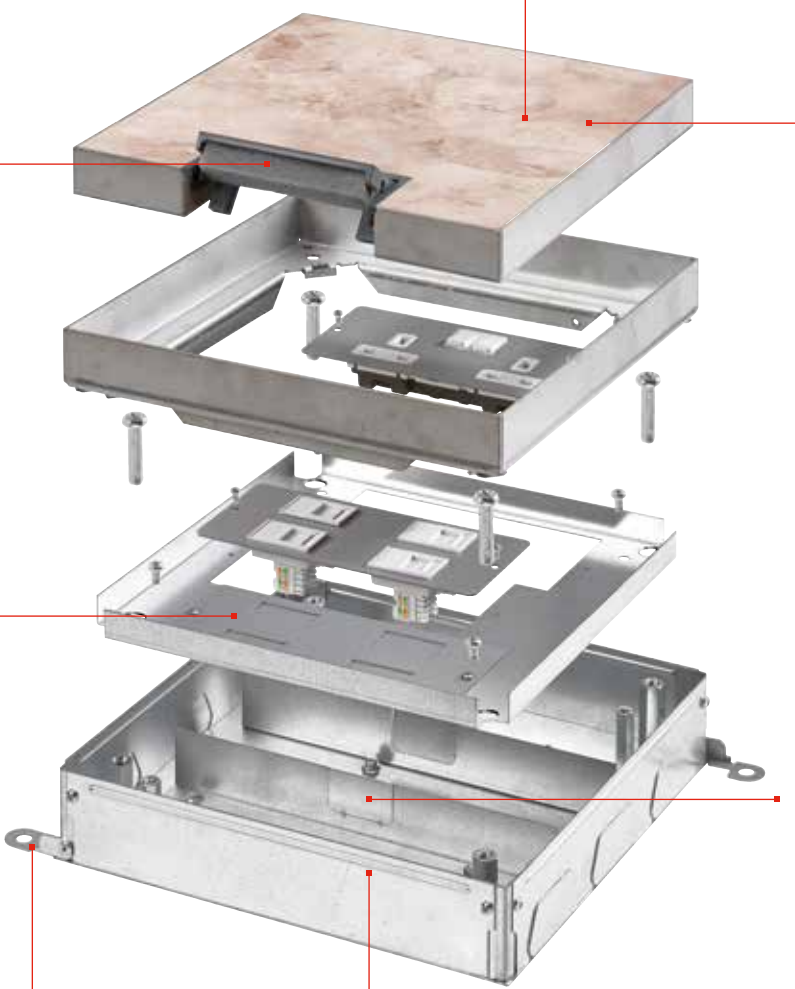
- Option of two screed depths: 55-80mm and 80-110mm
- Flat sided base design ensures a stronger screed solution and faster taping
- Deeper screed depths available on request

BASE FIXING FEET

- 'Fast fix' installation

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes



*Cord Outlet Lids are not suitable for Wet Wash applications.

DESIGNED FOR USE WITH CABLELINK PLUS SCREED SYSTEM


Onix Plus™ Boxes, Cord Outlet and Blank Lids

The Base Units are installed prior to screeding. Designed for use with the Cablelink Plus Screed Ducting System – see page 53 for more details. Blank Lid is suitable for wet wash applications.

Onix Plus Box Selector Guide

- Service Outlet Boxes and Junction Boxes are ordered as two parts, “Base” and “Lid”
- Junction Boxes – are supplied as a base and cable flyover
- Base – identify screed depth, number of compartments required and preferred box size
- Lid – choice of lid type. Cord Outlet Lid or Blank Lid. Cord caps must be ordered separately
- Accessory Plates – select from wide range of power and data options, see page 43 for details


Screed Base Units: Standard



Base size Compartment	265 x 265mm 3	340 x 340mm 4
SCREED 55-80MM 35MM WIRING SPACE	NXB265UK-3	NXB340UK-4
SCREED 80-110MM 35MM WIRING SPACE	NXB265XUK-3	NXB340XUK-4

Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit – part number CUBA-1.
Supplied with four PVC side adaptor plates. Number of apertures varies by size:
265 x 265mm – 3 x 60 x 25mm and 340 x 340mm – 3 x 90 x 35mm. See page 43 for alternative plates.
If screed depth is 55-65mm, reduce wiring space to 25mm by use of suitable CUBA kit and use side entry power socket outlets – see page 43.


Junction Boxes



Size	265 x 265mm	340 x 340mm
55-80MM	NXJ265UK	NXJ340UK
80-110MM	NXJ265XUK	NXJ340XUK

Supplied complete with a disposable steel screed lid and cable flyover as standard. LIDS MUST BE ORDERED SEPARATELY.
Supplied with four side adaptor plates, 4 x PVC ducting plates. Number of apertures varies by size:
265 x 265mm – 3 x 60 x 25mm and 340 x 340mm – 3 x 90 x 35mm. See page 43 for alternative plates.

Box Lids: Cord Outlet Lid



Size	265 x 265mm	340 x 340mm
Depth 55-80mm		
RECESSS DEPTH 15MM	NXLC265-15	NXLC340-15
RECESSS DEPTH 20MM	NXLC265-20	NXLC340-20
RECESSS DEPTH 25MM	NXLC265-25	NXLC340-25
RECESSS DEPTH 30MM	NXLC265-30	NXLC340-30
Depth 80-110mm		
RECESSS DEPTH 15MM	NXLC265X-15	NXLC340X-15
RECESSS DEPTH 20MM	NXLC265X-20	NXLC340X-20
RECESSS DEPTH 25MM	NXLC265X-25	NXLC340X-25
RECESSS DEPTH 30MM	NXLC265X-30	NXLC340X-30

Cord outlet lid is not suitable for wet wash applications. Supplied as stainless steel lid.
Cord caps must be ordered separately. Lids are supplied with frame and fittings.

Box Lids:
Blank Lid

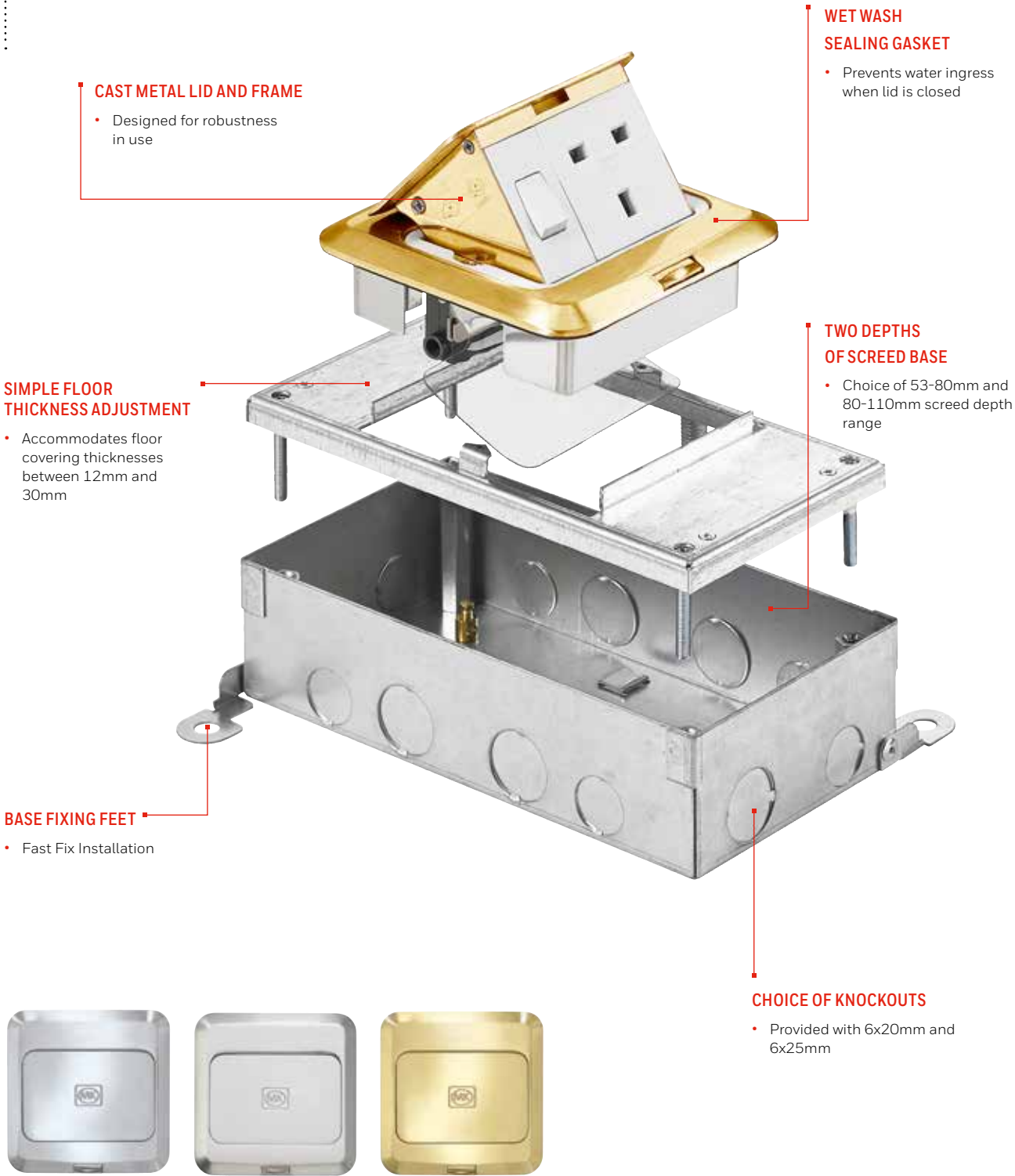


Size	265 x 265mm	340 x 340mm
Depth 55-80mm		
RECESSS DEPTH 15MM	NXLB265-15	NXLB340-15
RECESSS DEPTH 20MM	NXLB265-20	NXLB340-20
RECESSS DEPTH 25MM	NXLB265-25	NXLB340-25
RECESSS DEPTH 30MM	NXLB265-30	NXLB340-30
Depth 80-110mm		
RECESSS DEPTH 15MM	NXLB265X-15	NXLB340X-15
RECESSS DEPTH 20MM	NXLB265X-20	NXLB340X-20
RECESSS DEPTH 25MM	NXLB265X-25	NXLB340X-25
RECESSS DEPTH 30MM	NXLB265X-30	NXLB340X-30

Blank Lid is suitable for wet wash applications. Supplied as a stainless steel lid.
Lids are supplied with frame and fittings.

CORD CAP	
Part Number	Description
NXLC-01GRY	Cord Cap – Grey (RAL 7011)
NXLC-01BEG	Cord Cap – Beige (RAL 1019)

Onix Plus™ Metal Power Grommet



COLOUR OPTIONS

- Available in Aluminium, Nickel finish and Brass

Onix Plus™ Metal Power Grommet

The range of power grommets provide access to power in areas where standard plastic grommets are not robust enough, where improved aesthetics are required, or a wet wash solution is required.

Wet Wash

Specifically designed to seal against water ingress to IP44 when the lid is closed, allowing the floor to be washed.

Onix Plus Metal Grommet Selector Guide

- Base – select preferred base depth (use for screed floors only)
- Grommet – choose finish of unserviced grommet
- Select either switched Socket Outlet or Unserviced Data Outlet to service the grommet

Screed Base Units



Part No.	Description
NXGB100-1	Grommet Base Unit 55-80mm depth
NXGB100X-1	Grommet Base Unit 80-110mm

* A minimum finished floor thickness of 68mm is required. (Screed and floor tile thickness added together).

* Conduit entry only, not compatible with ducting.

Serviced Power Grommets*



NXGCALP

Part No.	Description
NXGCALP	13A 1G Switched Socket Outlet Grommet – Aluminium
NXGCBRP	13A 1G Switched Socket Outlet Grommet – Brass
NXGCNIP	13A 1G Switched Socket Outlet Grommet – Nickel

Socket outlets feature the MK Electric 3-pin "child resistant shutter system".

*Not dual earth.

Unserviced Data Grommets



MXGCALD

Part No.	Description
NXGCALD	Unserviced Grommet with 1 x 50 x 75mm Euro aperture – Aluminium
NXGCBRD	Unserviced Grommet with 1 x 50 x 75mm Euro aperture – Brass
NXGCNID	Unserviced Grommet with 1 x 50 x 75mm Euro aperture – Nickel

Accessory Plates

Accessory plates are common to most ranges, they will fit all Onix Plus™, Cablelink Plus Single Pan, and Screed floorboxes.

Plates are for use with 265 x 265mm, 340 x 265mm and 340 x 340mm Floorboxes and are supplied in

Light Grey (LGY) finish.

Serviced Power Plates



CXP10730



CXP10731NS



CXP10745



CXP10740

Standard Part No.	Description
CXP10730*=	2G 13A Switch Socket Outlet
CXP10730NS*=	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731*=	2G 13A Socket Outlet
CXP10731NS*	2G 13A Socket Outlet Non Standard (T Pin)
CXP10745	2G 13A Angled Socket Outlet
CXP10735*	2G 13A 30mA Passive RCD Switch Socket Outlet**
CXP10760	2G 13A Switch Socket Outlet – Side Wired
CXP10720	3G 13A Socket Outlet
CXP10740	2G 16A 2P+E German Socket Outlet (non UK)**

* For Clean Earth wiring – add suffix "CE" e.g CXP10730CE. Clean Earth switched power plates are identified with red rockers.

† Plates are supplied with the MK Electric 3-pin "child resistant shutter system".

**Minimum 45mm wiring space required.

Unserviced Data Plates



CXP20215



CXP20301



CXP30201

Part No.	Description
CXP20200	2 x LJU6C Apertures
CXP20201*	4 x LJU6C Apertures
CXP20215=	4 x LJU6C Wave Apertures
CXP20205	4 x Krone Apertures
CXP20301	6 x LJU6C Apertures
CXP30501	2 x Euro 50 x 50mm Apertures
CXP30503	1 x Euro 150 x 50mm Aperture
CXP30502	2 x 45 x 45mm Apertures
CXP20500=	4 x ST Fibre Connector Apertures
CXP30201	Blank Plate

* Data apertures are supplied as knockouts. = Additional floor depth restrictions apply when using these plates - See page 77 for details.

Optional Extras

Part No.	Description
NXLC-01GRY	Cord Cap – Grey (RAL 7011)
NXLC-01BEG	Cord Cap – Beige (RAL 1019)
CUBA-1	Plate Height Adjustment Kit +/- 10mm. Suitable for 265 x 265mm and 340 x 340mm boxes only
CX-10	Earthing Kit, pack of 10

Side Adaptor Plates



Side plate	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	
Side plate	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

see page 53 for information regards PVCu ducting, see page 54 for metal ducting. * Knockouts 20mm and 25mm.



ONIX PLUS™ CASE STUDY

THE CO-OPERATIVE GROUP HEADQUARTERS, MANCHESTER

When The Co-operative Group set about identifying a site to replace its city centre estate the challenge lied in erecting a flexible and future-proofed building that could accommodate a mobile and dynamic working style, without compromising aesthetics.

To meet The Group's needs, MK Electric supplied 89 Onix Plus™ Floorboxes and Power Grommets with snorkel lids, and 21 of the same solution with blank lids.

"From the design and construction of the building, to the electrical components used and management of the project, One Angel Square sets a new international benchmark in sustainable design within the commercial sector and is widely acknowledged as one of the most sustainable large office spaces in Europe. The new head office also benefits from MK Electric's innovative floorbox solution which will allow our business to be as flexible as possible as our building and layout needs change and evolve."

David Pringle, Director of NOMA



CABLELINK PLUS SCREED SYSTEM

RANGE INTRODUCTION

Cablelink Plus Screed System provides adaptable power and data distribution highways in screed floors.

Specifically designed to offer superior load bearing performance and greater robustness.

The Screed System consists of Service Outlet Boxes, Junction Boxes, Vertical Access Boxes, PVCu and Metal Ducting. These can be used together to provide a complete layout in floors with an overall finished floor depth as low as 64mm.

HOW TO SPECIFY

A power and data distribution system designed for use in screed floors consisting of outlet boxes, junction boxes, access boxes PVCu and Metal ducting. All product to be suitable to fit in screeded depths of 55mm to 110mm and tested to comply to EN50085-2-2. One, Three and Four compartment floorbox products to be available with self closing lids and wide provision of RCD protection to support compliance to 18th Edition Wiring Regulations. All products to be designed to support CAT6 and CAT 6A structured cabling systems.

FEATURES & BENEFITS

TESTED TO EN 50085-2-2 TO ACCEPT 5000N LOAD

CAT 6 & CAT 6A COMPLIANT

FLEXIBLE SOLUTION

Choice of 1, 3 or 4 compartment floorboxes

SUITABLE FOR SCREED DEPTH FROM 55MM TO 110MM

COMPLIES WITH WIRING REGULATIONS

Provision of RCD protections supports IET 18th Edition Wiring Regulations. Floorboxes are IP2X rated in accordance with BS EN 50085-1

SELF-CLOSING LID

In compliance with IEC 61534-22

PVCU DUCTING MANUFACTURED FROM 100% RECYCLED MATERIAL*

WIDE RANGE OF POWER AND DATA ACCESSORIES

5 YEAR GUARANTEE

*Based on 2019 consumption

SCREED SYSTEM

DUCTING

- Choice of PVCu or metal
- PVCu ducting sizes: 90 x 35mm and 60 x 25mm
- PVCu ducting manufactured from 100% recycled material

LID OPENING TO 80°

- Self closing lid in accordance with IEC 61534-22

STAGGERED PLATES

- Provides strain relief clearance for moulded plugs
- Stagger only available with 3 and 4 compartment floorboxes

TESTED TO EN50085-2-2
TO ACCEPT 5000N LOAD

OUTLET BOX COLOUR

- Grey (RAL 7011)

JUNCTION BOX FLY OVER

- Allows for 'through', 'tee', 'angle' and 'crossover' configurations
- Supports Cat 6 & Cat 6A compliance

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

JUNCTION BOX

- Supplied with plain lid and cable flyover, optional recessed lids available

BASE FIXING FEET

- Fast fix installation

SIDE ADAPTOR PLATE OPTIONS

- Selection of side plates to suit PVCu or metal ducting

DISPOSABLE STEEL SCREEDING LID

- Supplied with all Cablelink Plus Screed Floorboxes
- Recyclable

OUTLET BOX

- Option of two screed depth variants: 55-80mm and 80-110mm
- Flat side base design ensures a stronger screed solution and faster taping
- Optional 10mm plate height adjustment kit for increased wiring space to support Cat 6 and Cat 6A compliance
- Deeper screed depths available on request
- Deeper screed depths have fixed wiring spaces
- IP2X rated in accordance with BS EN 50085-1

TESTED TO EN 50085-2-2
TO ACCEPT 5000N LOAD

Service Outlet Box

ROBUST CORD CAPS

- Designed to improve retention

HANDLE

- Designed for improved accessibility

LID

- Simple carpet cut out
- 8mm or 12mm (metal lid and trim) recessed lids available
- Can be hinged from either of two sides

OPTIONAL LOCKABLE LID

- Added security when not in use

* SQUARE BOX OPTION

- 90° rotation of floorbox for system flexibility

OPTIONAL LID TETHER

- Added security
- Eliminates lid losses

COMPARTMENT SEGREGATION

OUTLET BOX

- Option of two screed depths: 55-80mm and 80-110mm.
- Deeper screed depths available on request.
- Flat sided base design ensures a stronger screed solution and faster taping
- Optional 10mm plate height adjuster kit for greater screed depths to support Cat 6 and Cat 6A compliance
- IP2X rated in accordance with BS EN 50085-1

BASE FIXING FEET

- Fast fix installation

OPTIONAL CABLE RETAINERS

- Acts as cable tidy to prevent cables being trapped

RATCHET LEVELLING SYSTEM

- Self levelling and rapid fitting of frame and lid

STAGGERED PLATE

- Provides strain relief clearance for moulded plug tops
- Stagger only available with 3 and 4 compartment floorboxes

Screed Outlet Boxes

The Service Outlet Box should be positioned directly on the structural floor slab. The box provides location and connection facilities for power and data service outlets.

Service Outlet Box Selector Guide

- Service Outlet Boxes are ordered as two parts – “Base” and “Frame and Lid”
- Base – identify screed depth, number of compartments required and preferred box size
- Frame and Lid – choose trim colour and lid recess depth
- Side Adaptor Plates – choose alternative to PVC ducting plates if required
- Accessory Plates – select from wide range of power and data options – see page 55

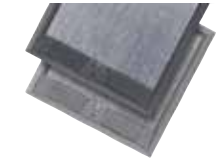
Base



Base size Compartment	100 x 200MM* 1	265 x 265MM 3	340 x 265MM 4
SCREED 55-80MM 35MM WIRING SPACE	CUB100UK-1	CUB265UK-3	CUB340UK-4
SCREED 80-110MM 35MM WIRING SPACE	CUB100XUK-1	CUB265XUK-3	CUB340XUK-4

Increased wiring space of 45mm below the plate is required to achieve Cat 6 & Cat 6A compliance. Wiring space can also be reduced to 25mm when used in shallow screed depths. Both require the use of a plate height adjustment kit - part number CUBA-1.
Disposable steel screed lid (recyclable) supplied as standard. If screed depth is 55mm, reduce wiring space to 25mm by use of suitable CUBA kit, floor covering must be 8mm thick when compressed, and use side wired socket outlets – see page 54. Supplied with 4 x PVC Ducting side plates. Number of knockouts varies by size: 100 x 200mm – 1 x 60 x 25mm, 265 x 265mm – 3 x 60 x 25mm and 340 x 265mm – 3 x 90 x 35mm. *These boxes will only accept CXP10745

Frames
and Lid



Frame/Lid Size	100 X 200MM	265 X 265MM	340 X 265MM
RECESS: 8MM	CXL100-8GRY	CXL265-8GRY*	CXL340-8GRY*
RECESS: 12MM**		CXL265-12GRY	CXL340X-12GRY

* Lockable option available – add suffix ‘L’ e.g CXL265-8GRYL. Floorboxes must never be locked whilst in use. Not supplied with key.
An optional 2mm lid packer is available when used with thinner carpet tiles – see Optional Extras below.
If a 12mm lid is required for use in 80-110mm screed, please add ‘X’ e.g. CXL265X-12GRY.
** For 12mm recess depth lids use Onix Plus™ base, see page 37 i.e NXB265UK-3.

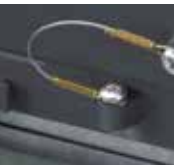
Side Adaptor
Plates



Side plate	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size (mm)		25 / 20	60 / 25	90 / 35	Up to 225x38
No. per plate		3/2	3	2	
Side plate	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
Aperture Type	Blank Blank	Round Conduit*	PVC	PVC	Metal Ducting
Aperture Size (mm)		25 / 20	60 / 25	90 / 35	Up to 300x38
No. per plate		4/4	4	3	

See page 53 for information regards PVCu ducting, page 54 for metal ducting. * Knockouts 20mm and 25mm.

Optional Extras



LID TETHER

Part No.	Description
CX-01	Cable Retainers – pack of 10
CX-02	Lid Tether Kit – pack of 5
CX-03GRY	Cord Cap for 100 x 200mm Lid – Grey
CX-04GRY	Cord Cap for 265 x 265 and 340 x 265mm Lid – Grey
CX-05	Ratchet levelling kit
CUBA-1	Plate Height Adjustment Kit +/- 10mm. Suitable for 265 x 265mm and 340 x 265mm boxes only
CRXKEY	Lock Key – pack of 2

* Only applicable for 265 x 265mm floorbox.

Junction Box

CHOICE OF JUNCTION BOX LID

- Supplied with a plain lid, optional recessed lids available

TESTED TO EN50085-2-2
TO ACCEPT 5000N LOAD

DISPOSABLE STEEL
SCREEDING LID

- Supplied with all Cablelink Plus Screed Floorboxes
- Recyclable

OPTIONAL RECESSED LID

- Simple carpet cut out

JUNCTION BOX FLY OVER

- Allows for 'through,' 'tee,' 'angle' and 'crossover' configurations
- Supports Cat 6 & Cat 6A compliance

BASE FIXING FEET

- Fast fix installation

JUNCTION BOX

- Option of two screed depth variants: 55-80mm and 80-110mm.
- Deeper screed depths available on request.
- Flat side base design ensures a stronger screed solution and faster taping
- Supplied with cable flyover
- IP2X rated in accordance with BS EN 50085-1

Junction Boxes

The Junction Box should be positioned directly on the structural floor slab. The box provides access to cables at the intersection of ducting runs or changes of direction. The ducting forms a system of tunnels to segregate services within the junction box.

Junction Box Selector Guide

- Junction Boxes are supplied as a base, lid and cable flyover as standard
- Lid – supplied complete as a plain flat lid as standard

Junction Box



Depth/Base Size	265 X 265MM	340 X 340MM
55-80MM	CUJ265UK	CUJ340UK
80-110MM	CUJ265XUK	CUJ340XUK

Supplied complete with a plain flat lid, disposable steel screed lid and cable flyover as standard.
Supplied with four side adaptor plates, 4 x PVC ducting plates – number of ducting knockouts varies by size:
265 x 265mm – 3 x 60 x 25mm and 340 x 340mm – 3 x 90 x 35mm. See below for alternative plates.

Recessed Lid and Frame



Recess/Base Size	265 X 265MM	340 X 340MM
Depth 53-80MM		
RECESS DEPTH 8MM	CUJL265-8GRY	CUJL340-8GRY
RECESS DEPTH 12MM	CUJL265-12GRY	CUJL340-12GRY
Depth 80-110MM		
RECESS DEPTH 8MM	CUJL265X-8GRY	CUJL340X-8GRY
RECESS DEPTH 12MM	CUJL265X-12GRY	

Supplied as a recessed lid to accept floor covering.

Side Adaptor Plates



Side plate	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
APERTURE TYPE	BLANK BLANK	ROUND CONDUIT*	PVC	PVC	METAL DUCTING
APERTURE SIZE		25 / 20	60 / 25	90 / 35	UP TO 225X38
NO. PER PLATE		3/2	3	2	
Side plate	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
APERTURE TYPE	BLANK BLANK	ROUND CONDUIT*	PVC	PVC	METAL DUCTING
APERTURE SIZE		25 / 20	60 / 25	90 / 35	UP TO 300X38
NO. PER PLATE		4/4	4	3	

See page 53 for information regards PVCu ducting, page 54 for metal ducting.
* Knockouts 20mm and 25mm.

Vertical Access Boxes

The Vertical Access Box provides draw-in facilities to allow for a change of plane or direction of the ducting and connection to skirting trunking systems, distribution boards, boxes etc.

- Conduit or ducting can be run vertically or horizontally from the box

Vertical Access Boxes – for PVC Ducting



List No.	Type	List No.	Type
Shallow Access		Full Access	
SF88152	TWIN	SF88172	TWIN
SF88153	TRIPLE	SF88173	TRIPLE

When using VAB with 2 or 3 compartment trunking, the full access version of the VAB should be used to give maximum accessibility. If using 60 x 25mm ducting, the ducting can be joined into the box using SF88150

Cover Plates – for Vertical Access Boxes (PVC Ducting)

List No.	Type	List No.	Type
Overlapping Shallow Access		Flush Shallow Access	
SF88180	TWIN	SF88176	TWIN
SF88181	TRIPLE	SF88177	TRIPLE
Overlapping Shallow Access		Flush Shallow Access	
SF88188	TWIN	SF88184	TWIN
SF88189	TRIPLE	SF88185	TRIPLE

Vertical Access Boxes – for Metal Ducting



Box Size	265MM	340MM
VERTICAL ACCESS BOX	CUV265UK-2	CUV340UK-3

Supplied with flush cover plate and Metal Ducting side adaptor plate:
265mm box = CUBP265-08, 340mm box = CUBP340-08. CUV boxes are supplied 3 compartment and can be easily converted to 2 compartment on site.

Spares

Box Size	265MM	340MM
OVERLAPPING COVER PLATES	CUVP265	CUVP340

Supplied as singles.

Ducting and Accessories

The ducting is intended primarily for installation within the floor screed thickness, but it can also be cast direct into the structural slab, attached to the soffit with access through from the floor above or used for vertical service risers.

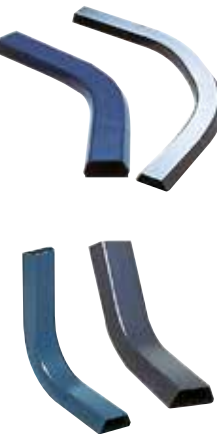
- Underfloor ducting is available in two sizes, 90mm x 35mm and 60mm x 25mm. Comes in 12 metre packs and is white in colour.

PVCu Ducting



	3M lengths
60 X 25MM	SF88200
90 X 35MM	SF88100

Ducting Bends



Part No.	Ducting System	Angle	Mean Centre Line Radius
PVCu ducting horizontal bends			
SF88144	SF88100	90°	465mm
SF88145	SF88100	45°	465mm
SF88248	SF88200	90°	450mm
SF88249	SF88200	45°	450mm
PVCu ducting vertical bends			
SF88142	SF88100	90°	100mm
SF88143	SF88100	45°	100mm
SF88246	SF88200	90°	95mm
SF88247	SF88200	45°	95mm

Ducting Bends require the jointing sleeve to connect to the ducting.

Accessories



Part No.	Description
SF88106	Jointing Sleeve (SF88100). Pack of 5
SF88206	Jointing Sleeve (SF88200). Pack of 5
CUFC60-2	2 Compartment Fixing Clip (SF88200). Pack of 10
CUFC60-3	3 Compartment Fixing Clip (SF88200). Pack of 10
SF88116	2 Compartment Fixing Clip (SF88100). Pack of 10
SF88117	3 Compartment Fixing Clip (SF88100). Pack of 10
SF88105	Conduit entry adaptor for PVC ducting VAB's. Pack of 5
SF88107	Ducting Adaptor. Pack of 5
SF88150	Duct Reducer. Pack of 5

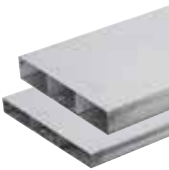
Metal Ducting System

Metal Ducting Systems are offered as an alternative to PVCu systems.

- Provide greater cable protection
- Provides EMC Screening
- Manufactured from pre-galvanised sheet steel



Metal Ducting



Ducting Width Compartment	100MM 1	225MM 2	225MM 3	250MM 3	275MM 3	300MM 3
Ducting Height						
38MM	CUD100-38-1	CUD225-38-2	CUD225-38-3	CUD250-38-3	CUD275-38-3	CUD300-38-3

Supplied in lengths of 2.44m.

Joint Sleeves



Ducting Width	100MM	225MM	250MM	275MM	300MM
Ducting Height					
38MM	CUDJ100-38	CUDJ225-38	CUDJ250-38	CUDJ275-38	CUDJ300-38

Fixing Clips



Ducting Width	100MM	225MM	250MM	275MM	300MM
Ducting Height					
38MM	CUDF100-38	CUDF225-38	CUDF250-38	CUDF275-38	CUDF300-38

Side Adaptor
Plates



Side plate	CUBP200-01	CUBP200-02	CUBP200-03	CUBP200-04	CUBP200-08
APERTURE TYPE	BLANK BLANK	ROUND CONDUIT*	PVC	PVC	METAL DUCTING
APERTURE SIZE (MM)		25 / 20	60 / 25	90 / 35	UP TO 100X38
NO. PER PLATE		2/2	2	1	
Side plate	CUBP265-01	CUBP265-02	CUBP265-03	CUBP265-04	CUBP265-08
APERTURE TYPE	BLANK BLANK	ROUND CONDUIT*	PVC	PVC	METAL DUCTING
APERTURE SIZE (MM)		25 / 20	60 / 25	90 / 35	UP TO 225X38
NO. PER PLATE		3/2	3	2	
Side plate	CUBP340-01	CUBP340-02	CUBP340-03	CUBP340-04	CUBP340-08
APERTURE TYPE	BLANK BLANK	ROUND CONDUIT*	PVC	PVC	METAL DUCTING
APERTURE SIZE (MM)		25 / 20	60 / 25	90 / 35	UP TO 300X38
NO. PER PLATE		4/4	4	3	

See page 53 for information regards PVCu ducting, page 54 for metal ducting.
* Knockouts 20mm and 25mm.

Accessory Plates

Accessory plates are common to several ranges, they will fit all Cablelink Plus Single Pan, Screed and Onix Plus™ floorboxes. Plates are for use with 100 x 200mm, 265 x 265mm and 340 x 265mm floorboxes and are supplied in Light Grey (LGY) finish.

Serviced Power Plates



CXP10730



CXP10745



CXP10735

Part No.	Description
CXP10730*=	2G 13A Switch Socket Outlet
CXP10730NS*=	2G 13A Switch Socket Outlet Non-Standard (T Pin)
CXP10731*=	2G 13A Socket Outlet
CXP10731NS*	2G 13A Socket Outlet Non-Standard (T Pin)
CXP10745	2G 13A Angled Socket Outlet – Power plate for CUB100
CXP10735*	2G 13A 30mA Passive RCD Switch Socket Outlet**
CXP10760	2G 13A Switch Socket Outlet – Side Wired (single earth)
CXP10720	3G 13A Socket Outlet
CXP10740	2G 16A 2P+E German Socket Outlet (non UK)**

* For Clean Earth wiring – add suffix 'CE' e.g CXP10730CE. Clean Earth switched power plates are identified with red rockers, unswitched with red sockets.
* Plates are supplied with the MK Electric 3-pin "child resistant shutter system".
If 2 socket plates or a socket plate and wave plate are to be used then only CXP10745 socket plate can be used.
**requires a 45mm wiring space.

Unserviced Power Plates

Part No.	Description
CXP20106	1G Accessory Plate with 60.3mm fixing centres
CXP20107*	2G accessory Plate with 120.6mm fixing centres

* Recommend that a MK Electric Aspect, Edge or Logic Plus Socket Outlet is used. Can only be used in 4 module floorboxes.

Unserviced Data Plates



CXP20201



CXP20215



CXP20301



CXP30201

Part No.	Description
CXP20200	2 x LJU6C Apertures
CXP20201*	4 x LJU6C Apertures
CXP20215	4 x LJU6C Wave Apertures
CXP20205	4 x Krone Apertures
CXP20301	6 x LJU6C Apertures
CXP30501	2 x Euro 50 x 50mm Apertures
CXP30503	1 x Euro 150 x 50mm Aperture
CXP30502	2 x 45 x 45mm Apertures
CXP20500	4 x ST Fibre Connector Apertures
CXP30201	Blank Plate

* Data apertures are supplied as knockouts.

Screed System Product Selection Table

SCREED OUTLET BOX				
Base Size		100 x 200 mm	265 x 265 mm	340 x 265 mm
Number of Compartments		1	3	4
BASE	55-80MM	CUB100UK-1	CUB265UK-3	CUB340UK-4
	80-100MM	CUB100XUK-1	CUB265XUK-3	CUB340XUK-4
LID & FRAME	8MM RECESS	CXL100-8GRY	CXL265-8GRY	CXL340-8GRY
ADAPTOR PLATE SIZE		N/A	265	340
SIDE PLATES AS STD		N/A	2 X CUBP265-03	2 X CUBP340-04
NO. / TYPE OF APERTURE ON SIDE PLATE		20 & 25MM CONDUIT DIRECTLY INTO BASE UNIT	3 X PVC 60 X 25MM	3 X PVC 90 X 35MM
OPTIONAL SIDE PLATE ADAPTORS	N/A		CUBP265-01	CUBP340-01
	N/A		CUBP265-02	CUBP340-02
	N/A		CUBP265-03	CUBP340-03
	N/A		CUBP265-04	CUBP340-04
	N/A		CUBP265-08	CUBP340-08

JUNCTION BOX			
Base Size		265 x 265 mm	340 x 340 mm
Number of Compartments		3	4
BASE	55-80MM	CUJ265UK	CUJ340UK
	80-110MM	CUJ265XUK	CUJ340XUK
JUNCTION BOX FLY OVER INCLUDED		3 WAY	3 WAY
LID SUPPLIED AS STANDARD		PLAIN FLAT	PLAIN FLAT
LID OPTIONS AVAILABLE			
DEPTH 55-80MM	8MM RECESS	CUJL265-8	CUJL340-8
	12MM RECESS	CUJL265-12	CUJL340-12
DEPTH 80-110MM	8MM RECESS	CUJL265X-8	CUJL340X-8
	12MM RECESS	CUJL265X-12	CUJL340X-12
ADAPTOR PLATE SIZE		265	340
SIDE PLATES AS STANDARD		4 X CUBP265-03	4 X CUBP340-04
NO. / TYPE OF APERTURE ON SIDE PLATE		3 X PVC 60 X 25MM	3 X PVC 90 X 35MM
OPTIONAL SIDE PLATE ADAPTORS	CUBP265-01	CUBP340-01	
	CUBP265-02	CUBP340-02	
	CUBP265-03	CUBP340-03	
	CUBP265-04	CUBP340-04	
	CUBP265-08	CUBP340-08	

VERTICAL ACCESS BOX	METAL DUCTING	
Size	265mm	340mm
No of Compartments	2	3
VERTICAL ACCESS BOX	CUV265	CUV340
COVER PLATES AS STANDARD	FLUSH	FLUSH
COVER PLATES OPTIONAL	CUVP265	CUVP340

VERTICAL ACCESS BOX	PVCu DUCTING			
Size	Shallow		Full Access	
Number of Compartments	2	3	2	3
VERTICAL ACCESS BOX	SF88152	SF88153	SF88172	SF88173
COVER PLATES - OVERLAPPING	SF88180	SF88181	SF88188	SF88189
COVER PLATES - FLUSH	SF88176	SF88177	SF88184	SF88185



INTERACT OVERHEAD POWER

RANGE INTRODUCTION

Interact Overhead Power System is a powertrack catering for single, 3 phase or dual circuit applications suitable for standard, permanent live, uninterrupted or dedicated power supply up to 480V.

Interact is fast and simple to install and has the additional benefit of all standard tap-offs being designed to be ‘fail safe’ should any incompatible track/tap-off connections be made.

FEATURES & BENEFITS

PATENTED ‘SNAP FAST’ CROCODILE JOINTS
Ensures fast and simple installation

STRONG, RIGID BUT LIGHTWEIGHT DESIGN
Enables greater spans between fixing brackets for quick and easy installation

KEY CODED AND COLOUR CODED TAP-OFFS
Provides mechanical protection against cross pole contamination

COMPLIES WITH WIRING REGULATIONS
Complies with both the requirements of BS EN 61534 and BS 7671:2018 IET Wiring Regulations (18th Edition)

AVAILABLE IN 40A

5 YEAR GUARANTEE

HOW TO SPECIFY

A 40A overhead powertrack system to cater for single , three phase or dual circuit applications. Snap fast crocodile joints to ensure fast and simple installation with provision for 500mm socket spacing’s. Key and colour coded tap-offs and sockets used to prevent cross pole contamination. Snap fix suspension brackets to enable fast and simple installation without additional fitting tools.

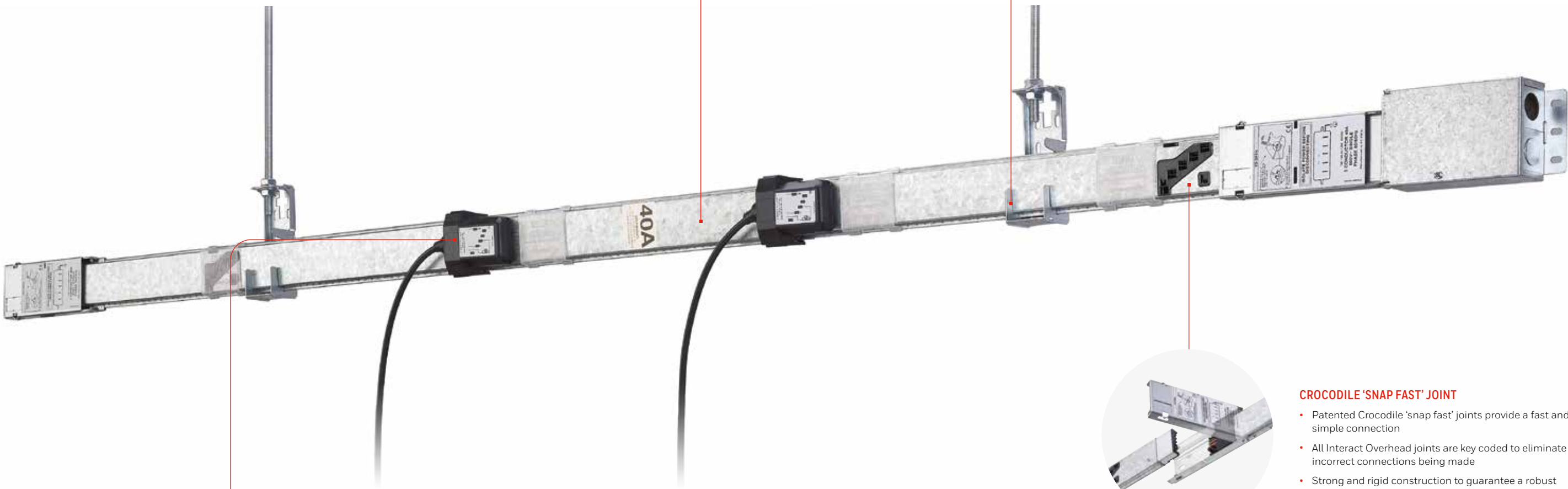
INTERACT OVERHEAD POWER

OVERHEAD POWER TRACK

- Strong and rigid construction to guarantee a robust installation and secure track and fittings suspension
- Lightweight structure enabling a faster installation and easier handling on site
- Available in a choice of 2m and 4m lengths to suit
- 500mm socket outlet pitch as standard

HANGING BRACKETS

- Snap fix suspension brackets requiring no tools to fit, suspend the overhead track
- The rigidity of the Interact design enables greater spans between brackets to be possible
- Reduced installation time, fewer parts to order
- Brackets are available with optional 50mm x 50mm trunking supports
- Caters for additional trunking support, reduces costs



TAP-OFFS

- Comprehensive pre-wired range available, fused and unfused, 1m, 3m and 5m lengths
- All Interact Overhead tap-offs are key coded to eliminate incorrect connections being made
- In situations where incompatible connections are accidentally made, all standard tap-offs are designed to be 'fail safe' – eliminates potential health and safety risks



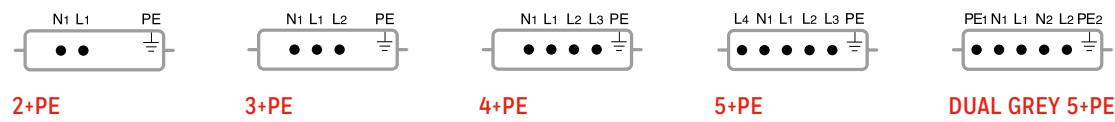
CROCODILE 'SNAP FAST' JOINT

- Patented Crocodile 'snap fast' joints provide a fast and simple connection
- All Interact Overhead joints are key coded to eliminate incorrect connections being made
- Strong and rigid construction to guarantee a robust installation and secure track connections

Whilst the track can remain 'live' when connecting or disconnecting tap-offs, appliances should not be on load.

INTERACT OVERHEAD POWER

40 Amp System



Powertrack



2+PE	3+PE	4+PE	5+PE	Dual Grey 5+PE
Length 2m Pitch 500mm 4 sockets				
LB42053	LB42054	LB42055	LB42056	LB42056GRY
Length 4m Pitch 500mm 8 sockets				
LB44053	LB44054	LB44055	LB44056	LB44056GRY

All overhead powertrack sockets do not contain shutters and are rated to IP2X.

Infeeds



2+PE	3+PE	4+PE	5+PE	Dual Grey 5+PE
Standard				
LF43	LF44	LF45	LF46	LF46GRY
Opposite End Feed				
LF43 LH	LF44 LH	LF45 LH	LF46 LH	LF46GRY LH

Terminal Capacity = 16mm²
Opposite end feed suffix must be added when ordering where applicable.
Each opposite end feed comes with an end cap to close off the powertrack run.

Flexible Interlinks



2+PE	3+PE	4+PE	5+PE	Dual Grey 5+PE
1m				
LI4310	LI4410	LI4510	LI4610	LI4610GRY
3m				
LI4330	LI4430	LI4530	LI4630	LI4630GRY

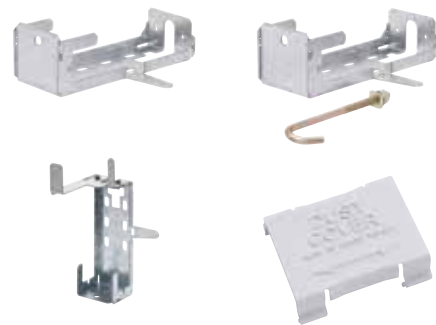
INTERACT OVERHEAD POWER

Tap-off Leads

Type	Pin Position						Current Rating	Protection	1 metre 2.5mm ²	3 metre 2.5mm ²	5 metre 2.5mm ²	Key Code
	SINGLE PHASE	N1	L1			PE	25A	UNFUSED	LT12501C	LT32501C		└
							16A	FUSED	LT11601C	LT31601C	LT51601C	
		N1		L2		PE	25A	UNFUSED		LT32502C		
							16A	FUSED	LT11602C		LT51602C	
	ALL PHASE + L4	N1	L1	L2	L3	PE	25A	UNFUSED		LT32503C		└
							16A	FUSED			LT51603C	
		L4	N1	L1	L2	L3	20A	UNFUSED	LT12506C			
CIRCUIT 1 GREY	PE1	N1	L1				25A	UNFUSED		LT32501GRY	LT52501GRY	└
							16A	FUSED			LT51601GRY	
CIRCUIT 2 GREY				N2	L2	PE2	16A	FUSED		LT31625GRY	LT51625GRY	
							25A	UNFUSED			LT52525GRY	
DUAL GREY	PE1	N1	L1	N2	L2	PE2	20A	UNFUSED		LT32526GRY		

(F) = Fused.
LSF Cable is supplied as standard. For PVC cable replace suffix 'C' with suffix 'PVC'. For Dual Grey system simply add suffix 'PVC'. Suffix must be added when ordering.
Polarity of tap-offs are configured to enable L4 to be used as a continuous conductor for Emergency Line.
When using tap-offs ensure that the line is protected by an appropriately rated protective device.
Key codes shown are from the perspective of the powertrack socket with the keycode in the top right corner.
The tap-off key code will be a mirror image when viewed from underneath.

Other Components



Part No.	Description
UK2	Hanging Bracket to suit up to ø10mm tie rod
UK2E	Hanging Bracket with 50mm x 50mm Trunking Suspension Arm
UK4	Hanging Bracket with Hook
UKDC	Additional Dust Cover

Please refer to Interact Overhead Power Technical – page 87, for details regards support bracket spacing and maximum suspended load.



HANGMANN

HANGMANN

RANGE INTRODUCTION

Hangmann is a range of hanging service modules providing a portable and convenient means of distributing power, data and compressed air flow from overhead supplies.

Available as either a power module or combined power and compressed air module the units are made from a flame retardant grade of polyamide and are durable and resistant to chemicals.

HOW TO SPECIFY

A range of robust hanging service modules that provide portable and convenient power, data and compressed air. Product to feature a suspension hook for fast and simple installation and be resistant to impact, fire and chemical damage. An additional grab handle should be available as standard to provide easy positioning of the device and space for tool hanging.

FEATURES & BENEFITS

ROBUST DESIGN

To suit demanding applications

SUSPENSION CHAIN

Provides easy positioning of unit

FLEXIBLE SOLUTION

Wide range of modules

IDEAL FOR GARAGES, WORKSHOPS AND FACTORIES

5 YEAR GUARANTEE

OVERHEAD POWER MAKES A SAFER WORK ENVIRONMENT

SUSPENSION HOOK

- Fast and simple installation

ROBUST DESIGN

- Impact resistant
- Fire retardant
- Chemical resistant

PRE-ASSEMBLED OPTIONS

- Ease of installation
- Simplified ordering

RANGE OF MODULES AND MOUNTING PLATES

- MK Commando products available
- Compressed air modules available
- Built in flexibility

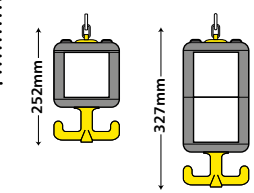
SUITED FOR USE IN 'TOUGH' ENVIRONMENTS

GRAB HANDLE

- Hang tools
- Easy positioning of unit

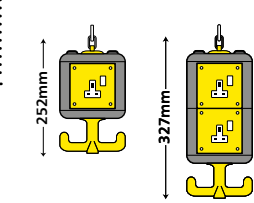
MK 3 PIN "CHILD RESISTANT SHUTTER SYSTEM"

Power Modules



Part No.	Description
SM34900A0	Single Empty module*
SM34900C0	Double Empty Module*

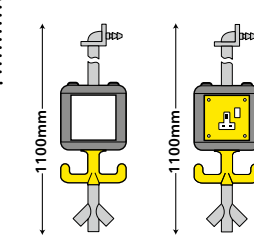
Mounting Plates



Part No.	Description
SM49004	Single Starter Pack: 2 x 13A Switch socket outlets 2 x Blank plates
SM49005	Single Starter Pack: 4 x 13A Switch socket outlets
SM49006	Double Starter Pack: 4 x 13A Switch socket outlets 4 x Blank plates
SM49007	Double Starter Pack: 8 x 13A Switch socket outlets
SM49010	Single Starter Pack: 3 x 13A Switch socket outlets 1 x Mounting plate for 2 x LJU6C modules (includes segregation backing plate)

Power modules arrive on site as individual components and have to be assembled separately

Compressed Air Modules



Part No.	Description
SM34901A0	Single Empty air Module*
SM49019	Single Air Starter Pack: 4 x 13A Switch socket outlets
SM49018	Single Air Starter Pack: 2 x 13A Switch socket outlets 2 x Blank plates

Mounting Plates and Accessories



Part No.	Description
SM49008	13A Socket Outlet
SM49009	13A Switch socket outlet
SM49011	Mounting plate for 2 x LJU6C modules (includes segregation back plate)
SM49012	130V 16A Straight socket – Yellow (K9400YEL)
SM49013	250V 16A Straight socket – Blue (K9401BLU)
SM937895	Mounting plate for BS EN60309-2 socket outlet, 60mm fixing centres
SM910101	Blank mounting plate
SMCHAIN5	Suspension chain – 5m length
SM42449	Spring VHF80 80N
SM980911	Balancer Unit
SM980922	Locking balancer unit

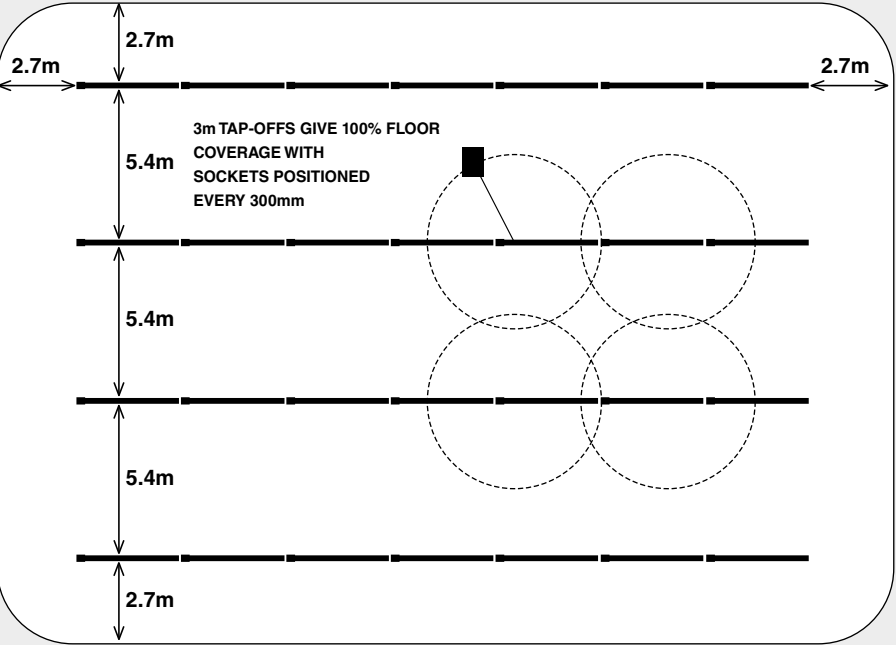


Power Distribution Systems

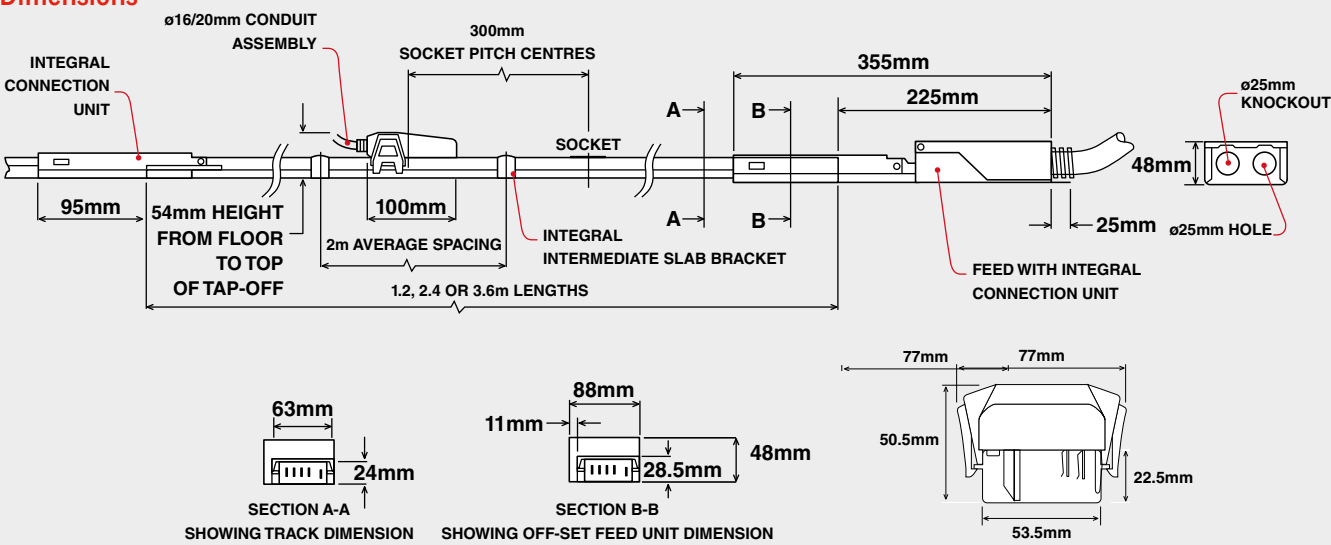
Technical

Interact Underfloor Power

Typical Floor Layout



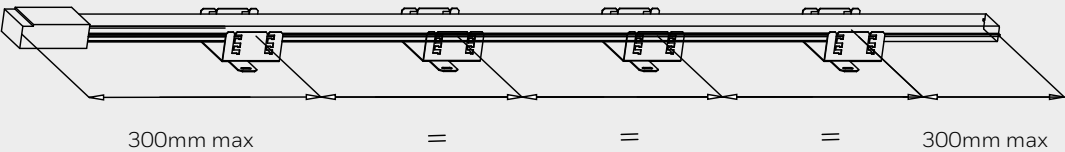
Dimensions



Elevating fixing brackets should be positioned within 300mm from either end of a track run and either side of all joints.

Minimum support requirement:

- 3.6 metre length = 4 brackets equally spaced
- 2.4 metre length = 3 brackets equally spaced
- 1.2 metre length = 2 brackets equally spaced



For a full range of corresponding products, see pages 9-14

Interact Underfloor Power

Standards and Approvals

Underfloor 63A – complies with BS EN 61534:2011
Manufactured within ISO 9000-9002 environment.

TECHNICAL SPECIFICATION		
ELECTRICAL SPECIFICATION	63A	
Rated Current	63	A
Rated Voltage	480	V
Frequency	50/60	Hz
Conditional Short Circuit Rating	16	kA
Resistance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
Impedance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
VOLT DROPS (FULL LOAD, CONCENTRATED AT ONE END) (LINE + NEUTRAL)		
Powertrack	2.9	mV/A/m
Feed Unit	0.6	mV/A
Tap-off Connection	1.6	mV/A
+ 4mm² Cable	10	mV/A/m
+ 2.5mm² Cable	18	mV/A/m
Joint	0.6	mV/A
Flexible interlink Unit	0.8	mV/A
+ 10mm² Cable	4.0	mV/A/m
EARTH FAULT LOOP IMPEDANCE		
Line Conductor	1.5	mΩ/m
EARTH		
- Case	1.0	mΩ/m
- Copper	1.5	mΩ/m
- Copper + Case	0.75	mΩ/m
Feed Unit (Line + Earth)	0.6	mΩ
Tap-off Connection (Line + Earth)	3.1	mΩ
+ 4mm² Cable R1 + R2	10	mΩ/m
+ 2.5mm² Cable R1 + R2	18	mΩ/m
Joint (Line + Earth)	0.6	mΩ
Flexible Interlink Unit (Line + Earth)	0.8	mΩ
+ 10mm² Cable R1 + R2	3.7	mΩ/m

3m tap off is actually 2.7/2.8m fully stretched, shortened by 0.1 - 0.2m of slack to ensure it remains flexible when wired to a module.

MECHANICAL DATA	63A	
Max. No. of Copper Conductors	5	
Conductor Cross Section Area (Nominal)	14.4	mm²
Powertrack Casing Copper Equivalent (Where Casing is Protective Earth)	14.5	mm²
Cable Termination Capacity	16	mm²
Tap-off Cable 32A	4.0	mm²
Tap-off Cable 13A	2.5	mm²
Tap-off Conduit Sizes	16/20	Ømm
Flexible Interlink Cable	10	mm²
Flexible Interlink Conduit	25	Ømm
Integral Feed Conduit Entry	1 x 25	Ømm
Feed Conduit Entry	2 x 25	Ømm
IP Rating	4X	
MATERIALS SPECIFICATION		
Powertrack Casing, Feeds and Brackets	Galvanised Steel	
Conductors	High Conductivity Copper	
Dust cover		
Powertrack Insulators	63A – Polyamide and polyester	
	Polycarbonate Sockets / Tap-off	
	Plug / Joint	
Mouldings	Polycarbonate	
Shutter	Acetal	
Tap-off/Interlink Flexible Conduit	Galvanised Steel	
Tap-off Cable (Singles in Conduit)	LSF cable to BS 7211 (PVC Cable to BS 6004 available on request)	
Tap-off Cable (Multi-core)	Multi-core cable to BS 6500 & BS 7211 LSF cable standard (PVC cable available on request)	
TAP-OFF PINS		
– Line, Neutral & Copper Earth	Copper and Phosphorous Bronze, tin plated	
– Casing Earth	Brass, tin plated	
Flexible Interlink Cable	10mm² cable to BS 6231	

MK ESSENTIALS FLOORBOX TECHNICAL

MK Essentials Floorbox

Standards and Approvals

The MK Essentials Floorbox supports compliance with the latest edition of the IET Wiring Regulations (BS 7671) and to BS EN 50085-1 and EN 50085 Part 2-2, BS EN 60670-1 and BS EN 60670-23.

TECHNICAL SPECIFICATION
MATERIALS
PLASTIC COMPONENTS
Manufactured from ABS plastic.
METAL COMPONENTS
Manufactured from pre-galvanised steel.
RAL COLOURS
Grey (GRY) = RAL 7042

Feature benefits
<ul style="list-style-type: none">Tested to BS EN 50085-2-2 to accept 3000N loadFlange fixings, an adjustable self-levelling ratched system and pre-cut side knockouts for a quick and easy installationPractical range of power and data accessory plates to support end user needsFeatures a reversible lid and tool free frame release for ease and convenience when changing floor layoutsQuality, reliability and safety come as standard5 year product guarantee

Installation

- MK Essentials Floorboxes should not be installed in the following situations:
- Where the floor is subjected to washing
 - Where protruding electrical cables are likely to cause a safety hazard
 - In passageways, especially where trolleys or other vehicles may be used
 - On escape routes, as this may impede the evacuation of the occupants from the building
 - Where opening the lid may be restricted and prevent access to the floorbox: for example, never position furniture such as desks, chairs or cabinets on the floorbox

Description

The MK Essentials Floorbox is a three compartment floor outlet box for use in raised floor environments. Ideal for use in commercial offices, education facilites or any other environment requiring underfloor access to power and/or data.



Load Testing

Load Testing of Floorboxes to BS EN 50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

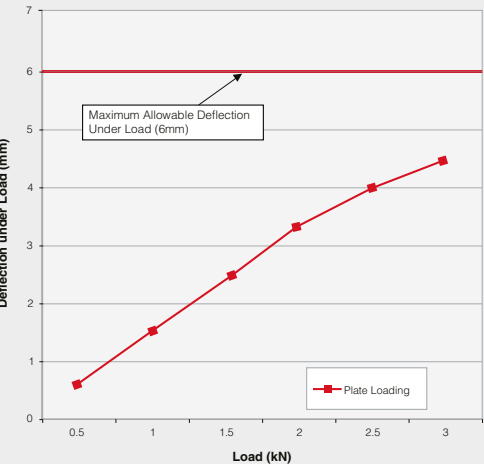
The floorbox has been tested to and comply with the loading requirements of EN 50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

There are two loading criteria for the floorboxes – one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

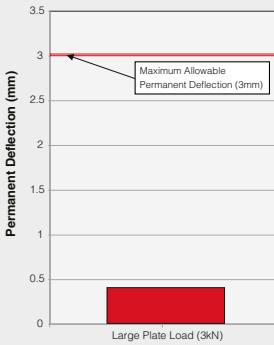
The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 1.5kN and the maximum large plate loading classification achieved is 3kN.

The Permanent Deflection graph shows the permanent deflection from the 4 large plate loading at 3kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm. The loading position is the centre of the lid.

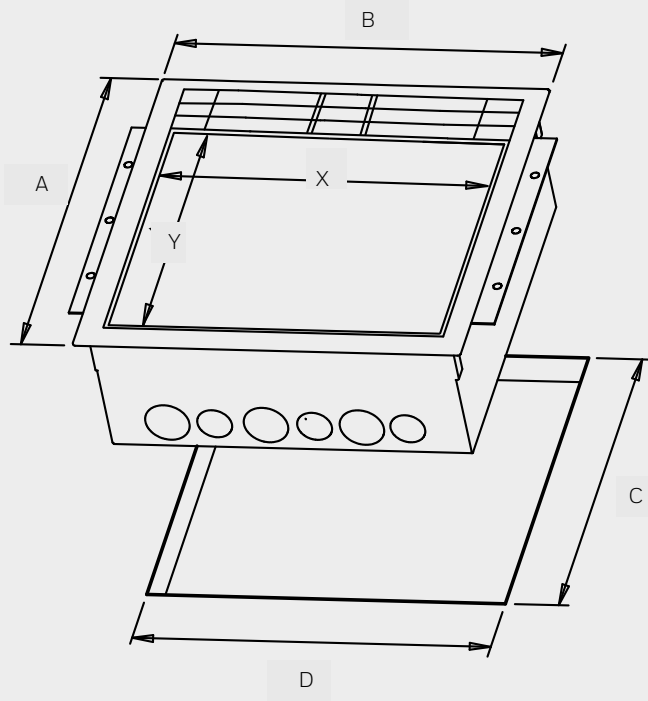
Lid Deflection



Permanent Deflection After Removal of Load



Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions



DIMENSIONS (mm)	
A	272
B	272
C*	258
D*	260

* General tolerance = +1.5mm.

The table below shows the sizes required for the carpet lid infill for MK Essentials Floorboxes.

DIMENSIONS (mm)		
	X	Y
Carpet Infill	234	202

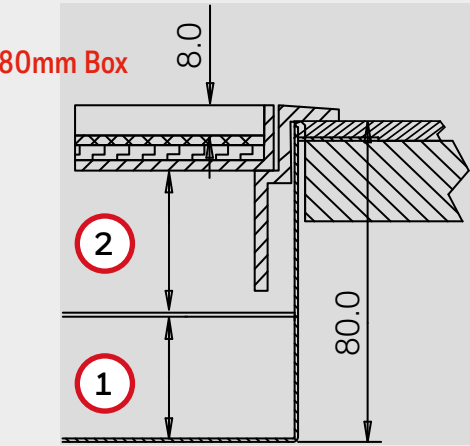
Knockouts

The MK Essentials three compartment floorbox is supplied with 3x 25mm and 3x 20mm knockouts on two sides, 2 x 20mm and 2 x 25mm knockouts respectively per compartment.

Plate Dimensions (mm)



MK ESSENTIALS FLOORBOX TECHNICAL



- ① Wiring Space. Please see table below for dimensions.
- ② This dimension assumes a floor covering thickness of 4.0mm. A thinner covering will reduce this dimension accordingly.

Plug Top Clearances

		DIMENSIONS (mm)
1	Wiring Space	32
2	Plug Top Clearance	40mm*

* Assumes a floor covering thickness of 4mm

Note: Suitable for use with Cat6 data cables, subject to compliance with cable manufacturers bending radius requirements.

Unserviced data plate: CXP20215GALV - 4 x LJU6C WAVE APERTURES - provides greater wiring space for use with Cat6 data cables.

For applications that require increased wiring space, use MK Cablelink Plus Single Pan Floorbox - CRB265UK-3GRY. (3 compartment, 95mm depth).

Dual Earth Sockets and High Protective Conductor Currents

Modern offices, schools, universities, laboratories etc, are heavy users of IT, computing and electronic equipment. As most of this equipment is fitted with a filter mechanism to protect data and data transmission against RFI and power surges, small earth leakages emanating from this equipment introduces a current onto the Circuit Protective Conductor (CPC) effectively turning this into a functional earth.

Should the CPC be broken, any equipment downstream of the break is no longer connected to earth. If a fault now occurs in this equipment, the CPC could rise to the mains potential and the fault transferred to other equipment on the circuit. The implicit risks to equipment, data and most importantly users in this situation are dealt with in the 18th Edition of the IET Wiring Regulations, and have led MK Electric to introduce Dual Earth Sockets.

Dual Earth Sockets allow the designer and installer to maintain the earth integrity of the system, in accordance with the 18th Edition of the IET Wiring Regulations is intended to maintain at all times the CPC to ensure safety.

Clean Earth Sockets

Clean Earth Sockets allow the designer & installer to introduce a protective conductor connecting sensitive equipment i.e. a computer, directly to the main earth.

This reduces the possibility of 'noise' occurring on the protective conductor through induced voltages from other equipment, and hence can have benefits in maintaining data and data transmission integrity.

CABLELINK PLUS

SINGLE PAN TECHNICAL

Cablelink Plus Single Pan

Standards and Approvals

The Cablelink Plus Single Pan Box supports compliance with the latest edition of the IET Wiring Regulations (BS 7671) and to BS EN 50085 Part 1 and EN 50085 Part 2-2.

Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

TECHNICAL SPECIFICATION

MATERIALS

PLASTIC COMPONENTS

Manufactured from UL94 V2 rated nylon.

METAL COMPONENTS

Manufactured from pre-galvanised steel.

Accessory plates are powdercoated or colour coated.

RAL COLOURS

Grey (GRY) = RAL 7011

Feature benefits

- Tested to BS EN 50085-2-2 to accept 5000N load
- Designed to support Cat 6 and Cat 7 structured cabling systems
- 70mm pan depth has been designed for those applications with shallow voids
- Self closing lid in accordance with IEC 61534-22
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 18th Edition Wiring Regulations
- 5 year guarantee

Installation

Cablelink Plus Single Pan boxes should not be installed in the following situations:

- Where protruding electrical cables are likely to cause a safety hazard
- In passageways, especially where trolleys or other vehicles may be used
- On escape routes, as this may impede the evacuation of the occupants from the building
- Where the cleaning methods employed result in the formation of pools of liquid or soaking of the floor surface
- Desks, chairs, shelving, filing cabinets should not be positioned on the floorbox as this will interfere with opening the lid

Cat 6 and Cat 7 Compatibility

With the introduction of Cat 6 and Cat 7 data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer’s recommendations to prevent transmission losses. As a result MK has introduced 45mm wiring space for the Cablelink Plus floorbox systems (as well as for the Prestige 3D wall trunking system.) This easily accommodates the longer Cat 6 and Cat 7 data outlets and leaves sufficient space for the data cable to run underneath it.

Load Testing

Load Testing of Floorboxes to BS EN 50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

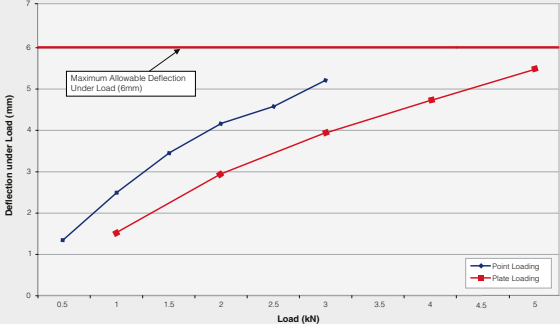
The floorboxes have been tested to and comply with the loading requirements of EN 50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

There are two loading criteria for the floorboxes – one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

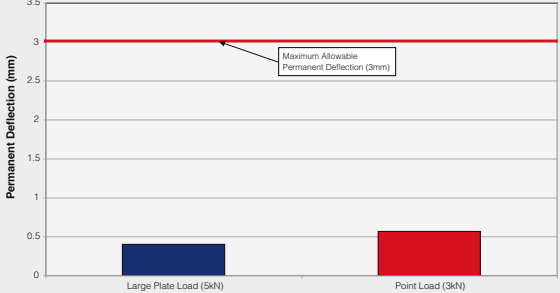
The Lid Deflection (loading) graph shows that the maximum point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.55mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm. The loading position is the centre of the lid.

Lid Deflection – Cablelink Plus 265x265mm Frame Assembly

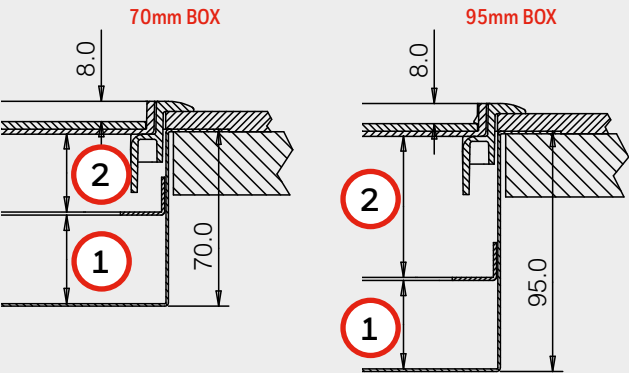
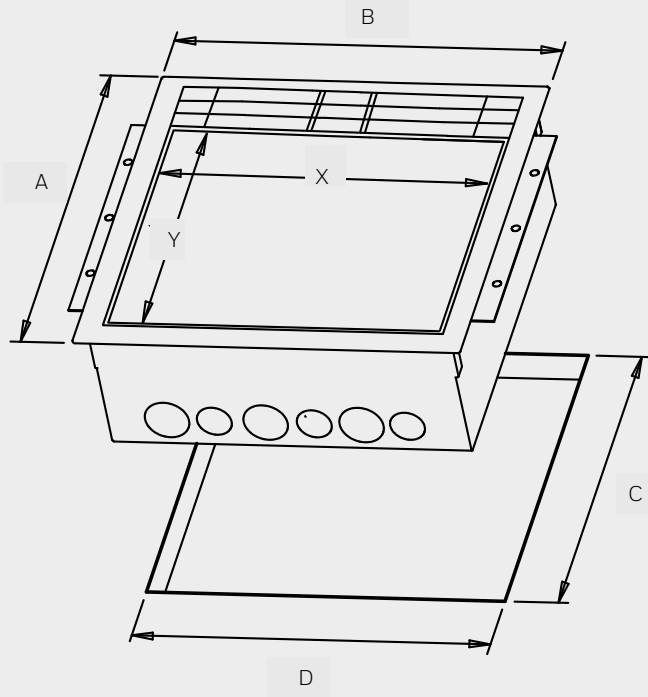


Permanent Deflection After Removal of Load – Cablelink Plus 265x265mm Frame



Cablelink Plus Single Pan

Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions



- 1 Wiring Space. Please see table below for dimensions.
- 2 This dimension assumes a floor covering thickness of 8.0mm. A thinner covering will reduce this dimension accordingly.

Plug Top Clearances

DIMENSIONS (mm)		70mm BOX	95mm BOX
1	Wiring Space	35	45
2	Plug Top Clearance	31	46

Plate Dimensions (mm)



DIMENSIONS (mm)			
	CRB100	CRB265	CRB340
A	130	287	287
B	222	287	362
C*	115	275	275
D*	206	272	350

* General tolerance = +1.5mm.

The table below shows the sizes required for the carpet lid infill for the Cablelink Plus Single Pan Floorboxes.

DIMENSIONS (mm)				
	CRB100		CRB265	
	X	Y	X	Y
Carpet Infill	93	152	251	219

Knockouts

1 compartment box is supplied with 20 and 25mm knockouts. 3 and 4 compartment box is supplied with 2 x 20mm, 1 x 25mm, 1 x 32mm knockouts respectively, per compartment.

In the 18th Edition of the IET Wiring Regulations, these requirements are found in Regulation 543.7.

Dual Earth Sockets and High Protective Conductor Currents

Modern offices, schools, universities, laboratories etc, are heavy users of IT, computing and electronic equipment. As most of this equipment is fitted with a filter mechanism to protect data and data transmission against RFI and power surges, small earth leakages emanating from this equipment introduces a current onto the Circuit Protective Conductor (CPC) effectively turning this into a functional earth.

Should the CPC be broken, any equipment downstream of the break is no longer connected to earth. If a fault now occurs in this equipment, the CPC could rise to the mains potential and the fault transferred to other equipment on the circuit. The implicit risks to equipment, data and most importantly users in this situation are dealt with in the 18th Edition of the IET Wiring Regulations, and have led MK Electric to introduce Dual Earth Sockets.

Dual Earth Sockets allow the designer and installer to maintain the earth integrity of the system, in accordance with the 18th Edition of the IET Wiring Regulations is intended to maintain at all times the CPC to ensure safety.

Clean Earth Sockets

Clean Earth Sockets allow the designer & installer to introduce a protective conductor connecting sensitive equipment i.e. a computer, directly to the main earth.

This reduces the possibility of ‘noise’ occurring on the protective conductor through induced voltages from other equipment, and hence can have benefits in maintaining data and data transmission integrity.

Grommets

Feature benefits

- Rotary and split lid variations available to meet all requirements
- One touch self-adjusting mechanism for a fast, simple and secure installation
- Available in 5" and 8", grey for flexibility of use
- 5 year guarantee

GROMMET TECHNICAL DIMENSIONS							
LIST NO.	DESCRIPTION	DIAMETER	OVERALL DEPTH	FLOOR TILE	CUT-OUT	KNOCKOUT	ACCESSORY CUT-OUT
GR500	Simple Access Grommet	142mm	50mm	All	127mm (+/-1mm)		
GR510	Secure Access Grommet	142mm	60mm	30 – 50mm	127mm (+/-1.5mm)		
GR100	Split Lid Grommet	142mm	60mm	30 – 50mm	127mm (+/-1.5mm)		
GR200	Power Grommet BS 1363 MK SSO	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)	20mm x 3	
GR201	Power Grommet MK Non-Std SSO	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)	20mm x 3	
GR5050	50mm x 50mm Accessory Grommet	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)		50mm x 50mm Euro frame fitted
GR800	2 x LJU6C Grommet	142mm	85mm	30 – 50mm	127mm (+/-1.5mm)		36.7mm x 22.2mm
GR850	Simple Access Grommet	233mm	85mm	30 – 50mm	209mm (+/-1.5mm)		
GR855	Secure Access Grommet	233mm	85mm	30 – 50mm	209mm (+/-1.5mm)		

Above the desk

Standards and Approvals

Above the Desk modules are designed and tested to:

IEC 60884-1:2002 (3rd Edition)
+ Amendment 1 (2006)
+ Amendment 2 (2013)

IEC 60884-2-7:2011
+ Amendment 1 (2013)

EN 60950-1

TECHNICAL SPECIFICATION

PART NUMBERS

DPA2010USB
DPA3010

ELECTRICAL

RATED VOLTAGE
200 – 250V AC, 50Hz

RATED CURRENT
10 – 16A AC

MAX LOAD POWER
2800W

SOCKETS RATED VOLTAGE
220 – 250V AC, 50Hz

SOCKETS RATED CURRENT
13A AC

USB INPUT VOLTAGE
220 – 250V AC, 50Hz

USB OUTPUT
5V – 2.1A

USB OUTPUT POWER
10.5W

ENVIROMENT

IP RATING
IP20

OPERATING ENVIRONMENT
Indoor

MATERIALS

MAIN HOUSING
Anodised Aluminium

MOULDINGS
Flame retardant polymer

SOCKETS
Flame retardant polymer

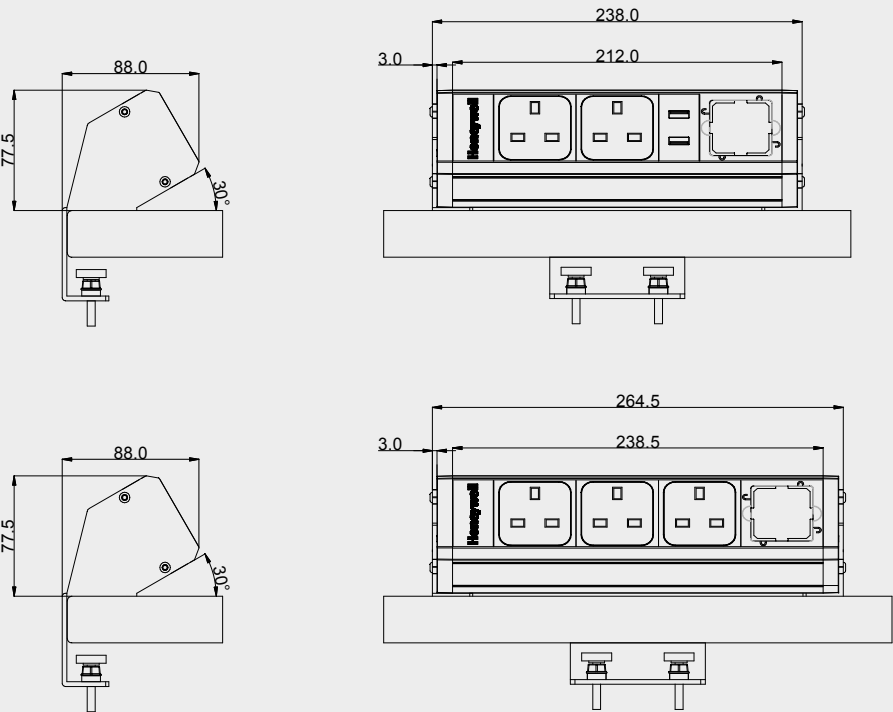
MOUNTING BRACKET
Metal

General

The following restrictions are placed on these desk modules:

- No single item of equipment having a rated voltage greater than 250V and rated current greater than 5A must be connected to the desk module
- The desk module must be connected to an electrical supply that has a protective earth conductor
- The completed installation must be tested for:
 - Continuity and polarity of the conductors
 - Insulation resistance
 - Earth continuity
- It is recommended that the installation is periodically maintained, inspected and tested.

Dimensions



Above the desk

Standards and Approvals

In the Desk modules are designed and tested to:

IEC 60884-1:2002 (3rd Edition)
+ Amendment 1 (2006)
+ Amendment 2 (2013)

IEC 60884-2-7:2011
+ Amendment 1 (2013)

TECHNICAL SPECIFICATION

PART NUMBERS

DPI2010USB
DPI3010

ELECTRICAL

RATED VOLTAGE
200 – 250V AC, 50Hz

RATED CURRENT
10 – 16A AC

MAX LOAD POWER
2800W

SOCKETS RATED VOLTAGE
220 – 250V AC, 50Hz

SOCKETS RATED CURRENT
13A AC

USB INPUT VOLTAGE
220 – 250V AC, 50Hz

USB OUTPUT
5V – 2.1A

USB OUTPUT POWER
10.5W

ENVIROMENT

IP RATING
IP20

OPERATING ENVIRONMENT
Indoor

MATERIALS

MAIN HOUSING
Anodised Aluminium

MOULDINGS
Flame retardant polymer

SOCKETS
Flame retardant polymer

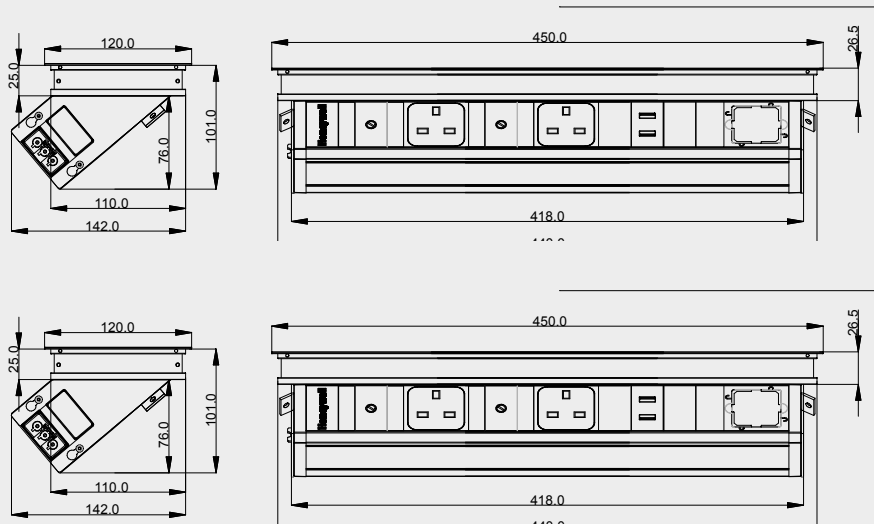
MOUNTING BRACKET
Metal

General

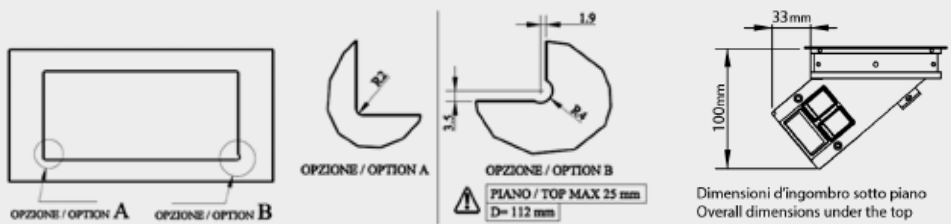
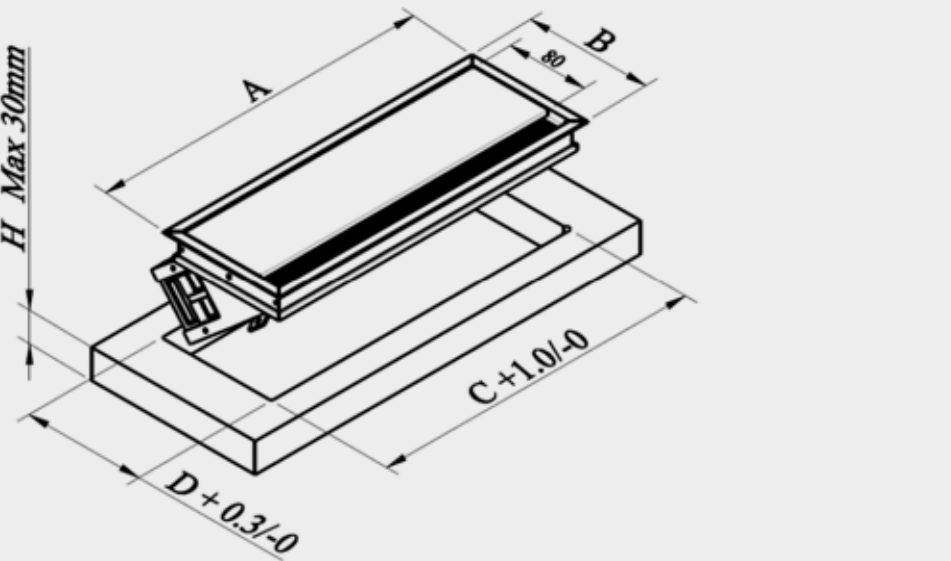
The following restrictions are placed on these desk modules:

- No single item of equipment having a rated voltage greater than 250V and rated current greater than 5A must be connected to the desk module
- The desk module must be connected to an electrical supply that has a protective earth conductor
- The completed installation must be tested for:
 - Continuity and polarity of the conductors
 - Insulation resistance
 - Earth continuity
- It is recommended that the installation is periodically maintained, inspected and tested.

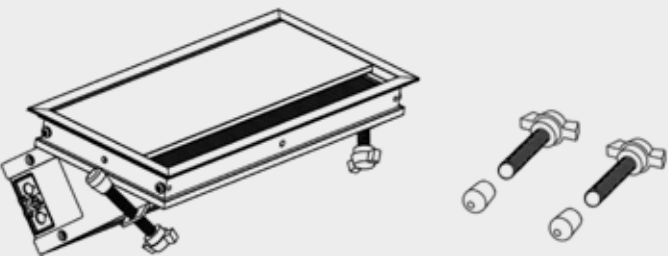
Dimensions



Dimensions



H	A	B	C	D
5 to 25mm	454	120	445	112
25.1 to 30mm	454	120	445	114



DeskPod™

Standards and Approvals

The DeskPod™ range is designed and tested to BS 5733 (General requirements for electrical accessories). The sockets are designed and tested to BS 1363 Part 2 (Specification for 13A switched and unswitched socket-outlets).

DeskPod™ is designed to be used in electrical installations to BS 7671.

TECHNICAL SPECIFICATION
MATERIALS
MAIN HOUSING
Anodised aluminium extrusion.
MOULDINGS
High impact, flame retardant grade of polycarbonate.
INTERNAL WIRING
Single cables insulated in low smoke, low fume grade of material to BS 7211.
POWER LEADS
Multicore flexible cable to BS 6500. Insulation PVC (low smoke and fume available on request).

Feature benefits
<ul style="list-style-type: none">Range of pre-configured options to simplifying orderingEase of installation – available with pre-wired tap-offsBreadth and flexibility of range to suit all specificationsManufactured from anodised aluminium and polycarbonate – chemical, colour fade, impact resistant and flame retardentQuality, reliability and safety come as standardProvision of RCD protection supports compliance with the 18th Edition Wiring Regulations5 year guarantee

General

The following restrictions are placed on these desk modules:

- Maximum current rating is determined by the circuit protection module. For example, DeskPods with 20A RCBO have a maximum current rating of 20A.
- The supply cord must connect to the permanent electrical installation via a standard 13A plug to BS 1363-1
- The desk module must be connected to an electrical supply that has a protective (Earth) conductor

The completed installation must be inspected and tested for:

- Continuity and polarity of the conductors
- Insulation resistance
- Earth continuity

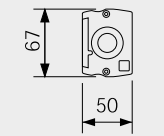
Details of the tests are given in the installation instructions. These tests must be carried out whenever the system is reconfigured.

It is recommended that the installation is periodically maintained, inspected and tested.

Dimensions

Nominal lengths and fixing centres are shown in the table below:

DESKPOD PART NO.	NOMINAL LENGTH (MM) (BRACKETS EXTENDED)	FIXING CENTRES (MM)	ALUMINIUM BODY LENGTH (MM)
DPD2000	255	238	185
DPD2100	247	230	177
DPP4010	445	428	375
DPP4011WGRY-5	510	493	440
DPP4012WGRN-5	460	443	390
DPP4013WGRN-5	510	493	440
DPP4015	470	453	400
DPP4016	525	508	455
DPP4019	550	533	480
DPP4110	455	438	385
DPP4110WRED	485	468	415
DPP4120	455	438	385
DPP4120WGRY	455	438	385
DPP4120WGRY-5	455	438	385
DPP4120WRED	485	468	415
DPP4120WRED-5	485	468	415
DPP6010	555	538	485
DPP6011	620	603	550
DPP6012WGRY-5	620	603	550
DPP6013WGRY-5	565	548	495
DPP6015	580	563	510
DPP6016	635	618	565
DPP6110	565	548	495
DPP6110WGRY	565	548	495
DPP6110WGRY-5	565	548	495
DPP6110WRED	595	578	525
DPP6110WRED-5	595	578	525
DPP6120WGRY	565	548	495
DPP6120WGRY-5	565	548	495
DPP6120WRED	595	578	525
DPP6120WRED-5	595	578	525



Dimensions in mm

Onix Plus™ Floorboxes

Standards and Approvals

These products are designed to withstand heavier than normal traffic loading as found in office buildings. The Onix Plus™ range supports compliance with the requirements of the 18th Edition of the IET Wiring Regulations (BS 7671) and to BS EN 50085 Part 1 and EN 50085-2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

TECHNICAL SPECIFICATION
MATERIALS
BOX LID AND FRAMES
Lid, load plate and frame manufactured in stainless steel.
Cord Outlet mouldings are manufactured from a UL94 V2 rated nylon.
POWER GROMMET
Service outlet is die cast aluminium, brass or nickel plated brass. The base unit is pre-galvanised steel. Plastic parts are polycarbonate.
RAL COLOURS
Grey (GRY) = RAL 7011
Beige (BEG) = RAL 1019

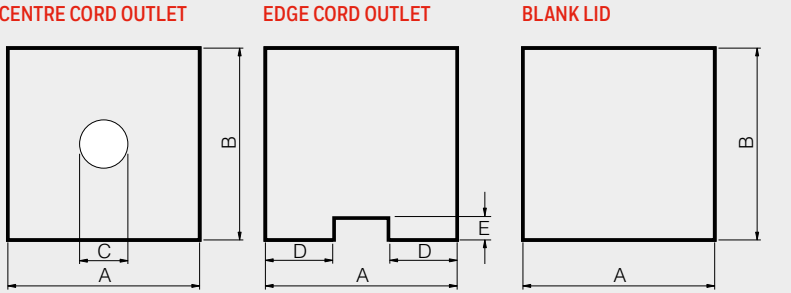
Feature benefits
<ul style="list-style-type: none">Wet washable and IP44 when not in useTested to EN 50085-2-2 to accept 10,000N load (5,000N load for Onix Plus Grommet)Selection of lid recess depths available, allowing for various floor depthsDesigned to support Cat 6 structured cabling systemsWide range of power and data accessories available to meet all requirementsQuality, reliability and safety come as standardProvision of RCD protection supports compliance with the 18th Edition of the IET Wiring Regulations (BS 7671)5 year guarantee

Wet Wash Test

The plain lid and the centre Snorkel outlet lids have an Ingress Protection rating of IP44, according to BS EN 60529:1992

Centre Cord Outlet Restrictions

* The Snorkel cord outlet cannot be used in depths less than 100mm.



This applies to the Snorkel Cord Outlet lid.

Lid Recess Dimensions

The dimensions in the table provide the sizes for the floor covering insert for the lid.

DIMENSION (mm)					
BOX SIZE	A	B	C	D	E
265x265mm	248	248	102	63	45
340x340mm	323	323	102	101	45

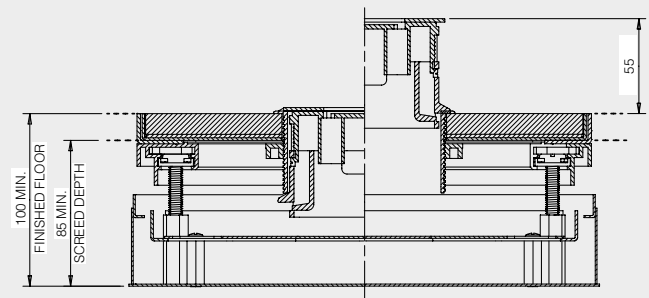
Note: Due to the weight of the lid and floor covering, a tile lifter, not the cord outlets, should be used to lift these lids.

Screed Depth Table – for Snorkel Lid with Flush Accessories

WIRING SPACE (mm)	FLOOR TILE THICKNESS – INCLUDING ADHESIVE (mm)	MINIMUM SCREED DEPTH (mm)	MINIMUM FINISHED FLOOR DEPTH (mm)
25	15	85	100
25	20	80	100
25	25	75	100
25	30	70	100
35	15	95	110
35	20	90	110
35	25	85	110
35	30	80	110
45	15	105	120
45	20	105	120
45	25	95	120
45	30	90	120

- Decide Wiring Space required: 25mm, 35mm or 45mm
- Decided Floor Tile Thickness. (This must align with the lid depth choice)
- Read across to determine the minimum screed depth and subsequent finish floor thickness

Note: When using the wave plate (CXP20215) or ST fibre plate (CXP20500) the minimum screed depth and minimum finished floor depth must be increased by 15mm. This will result in restrictions when utilising a 45mm wiring space.



Onix Plus™ Floorboxes and Power Grommets

Load Testing

Load Testing of Floorboxes to BS EN 50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of BS EN 50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

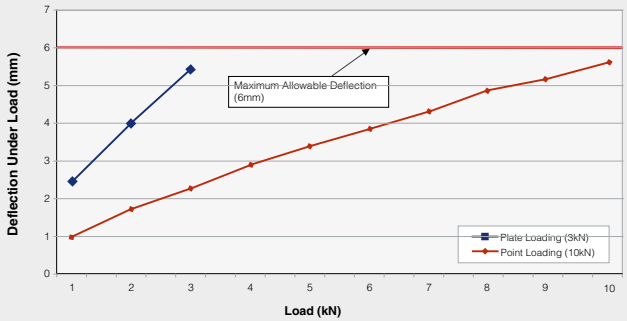
There are two loading criteria for the floorboxes – one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm. The loading position is the centre of the lid.

The Lid Deflection (loading) graph shows that the maximum test wheel loading classification achieved is 3kN and the maximum large plate loading classification achieved is 10kN.

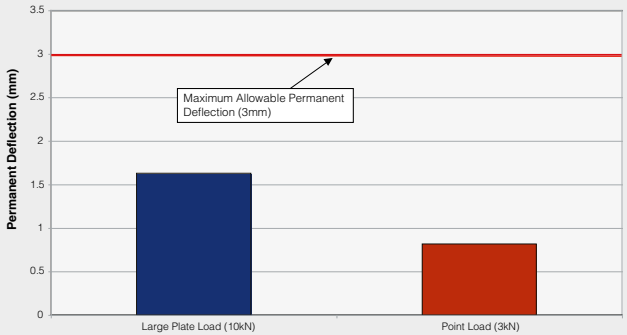
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.8mm and large plate loading at 10kN is 1.65mm. This is well within the maximum allowable deflection of 3.0mm.

Note: This test data specifically refers to the 265 x 265mm sized cord outlet box assembly. The other floorbox sizes also comply with the required test criteria. Declarations of conformity are available on request for the entire range.

Lid Deflection – Onix Plus Cord Outlet Lid 265x265mm



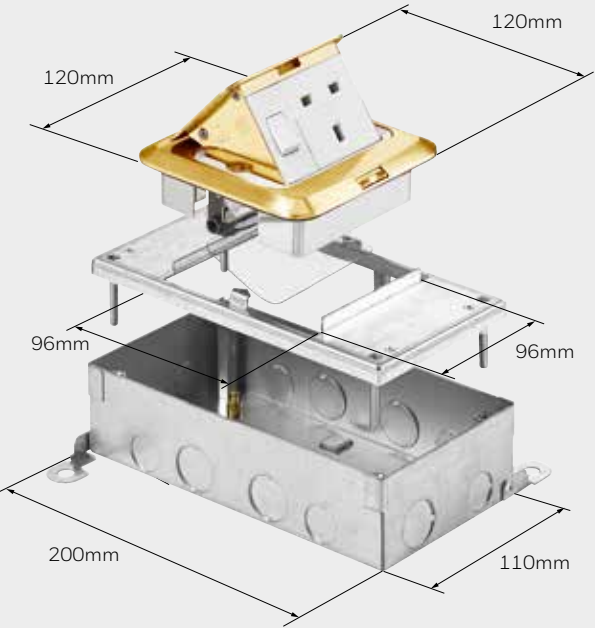
Permanent Deflection After Removal of Load – Onix Plus 265x265mm Cord Cap Lid



Metal Power Grommet Dimensions

The Metal Power Grommet is designed to be used in conjunction with the Screed Base Unit, part number NXGB100-1 or NXGB100X-1, depending on the depth of the screed.

Onix Grommets are IP2X.

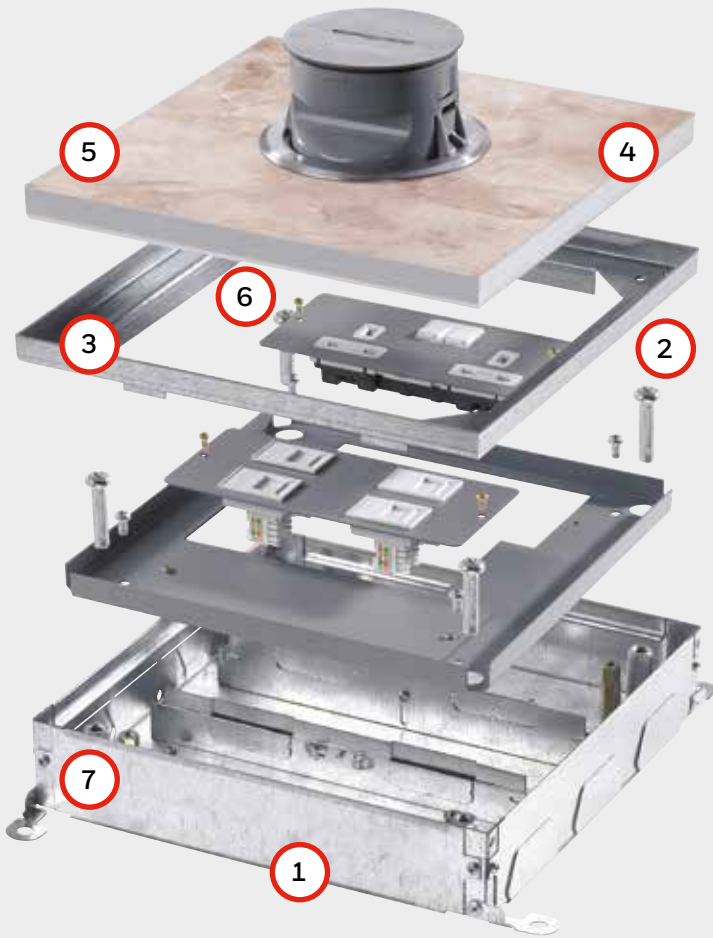


BASE UNIT	NXGB100-1	NXGB100X-1
Screed Depth (mm)	55-80mm	80-110mm

Onix Plus™ Floorboxes and Power Grommets

Installation of Snorkel Lid

- 1 The base unit is fixed to the slab and the ducts or conduits are fed into the base using the appropriate side entry plate.
- 2 The disposable screed cover is fitted to prevent the ingress of screed through the top. All areas of the box which may be susceptible to screed ingress should be sealed.
- 3 The Lid frame should be assembled and fitted after the disposable screed lid has been removed and the gasket can now be fitted.
- 4 The lid is supplied with an earth lead and must be bonded to earth for all power applications. As the lid is only installed when the floor covering is laid there is less chance the surface finish of the lid will be damaged.
- 5 A floor covering insert is required for the lid recess. The dimensions for the insert are given in the Lid Recess Dimensions section see page 685.
- 6 Sealing compounds are required for products that are for use in wet wash environments.
- 7 The bases are supplied with 35mm wiring space, but with the option to reduce to 25mm or increase to 45mm with the Cuba-1 height adjustment kit.



How to Install the Gasket



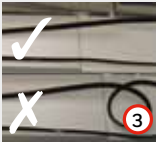
Identify the gaskets

The wider gasket is used in the frame and the narrower gasket is used on the lid. The gaskets are designed to sit next to one another, not one on top of the other.

2 Ensure gasket is clean

Ensure both lid and frame are dry, clean and free from oily deposits and debris such as grout and screed.

If replacing the gaskets ensure all traces of existing gasket and adhesive have been removed. An alcohol wipe will aid the removal of the adhesive backing.



Ensure gasket is straight

The gasket must have no twists in it. Any twists will result in the gasket not fitting and functioning correctly.



Fitting lid gasket

Start the lid gasket on the underside of the lid as close to the outer edge as possible, approximately half way along the length. Ensure the gasket runs underneath the Earth bonding cable. Do not run the gasket past the first corner at this stage.



Identify the gaskets

Butt the other end of the gasket to the start to ensure a good join. This also ensures the gasket is not stretched unduly.

Continue fitting the gasket around the edge of the lid keeping the corners as close to 90° as possible, until complete.



Fitting frame gasket

Start the frame gasket as close to the inner edge as possible, approximately half way along the length. Ensure the gasket runs underneath the Earth bonding cable. Do not run the gasket past the first corner at this stage.



Fitting frame gasket

Butt the end of the gasket to the start to ensure a good join. This also ensures the gasket is not stretched unduly.

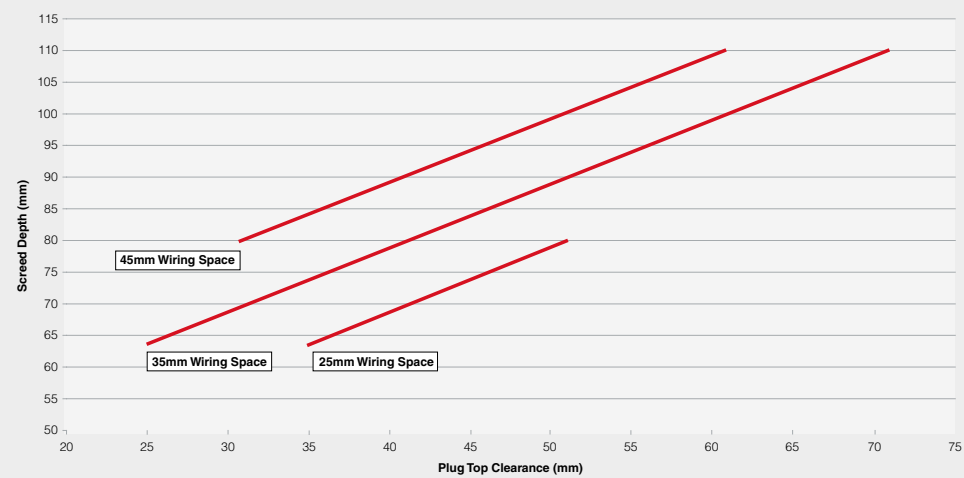


Fitting frame gasket

Continue fitting gasket around the inner edge of the frame, ensuring the gasket runs to the outside of the screw hole, until complete.

Onix Plus™ Floorboxes and Power Grommets

Screed Depth – 25mm, 35mm and 45mm Wiring Space



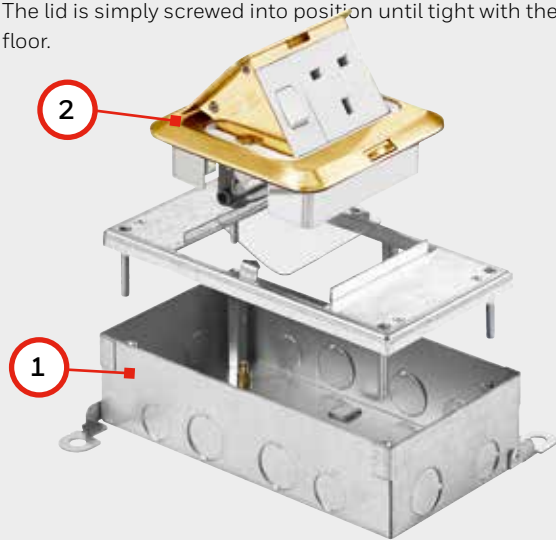
Installation of Metal Power Grommets

- 1 The Screed Base Unit, is laid onto the concrete slab. There are two Screed Bases available depending on the screed depth.
 - Screed depth between 55mm and 80mm use **NXGB100-1**
 - Screed depth between 80mm and 110mm use **NXGB100X-1**

A metal plate supplied with the Screed Base Unit to keep the screed out of the interior of the box.

After screeding the mounting plate is fitted and the floor covering is laid.

- 2 The grommet top is installed after the floor covering is laid. The lid is simply screwed into position until tight with the floor.



Cat 6 Compatibility

With Cat 6 data cabling the orientation and depth of many data outlets has changed, resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer's recommendations to prevent transmission losses. 45mm wiring space for the Cablelink Plus floorbox system is available.

Cablelink Plus Screed System

Standards and Approvals

Cablelink Plus Screed System range complies with the relevant requirements of the latest edition of 18th Edition of the IET Wiring Regulation (BS 7671) and to BS EN 50085 Part 1 and BS EN 50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23. The metal used complies to the requirements of BS EN 10327:2004

Feature benefits

- Tested to BS EN 50085-2-2 to accept 5000N load
- The system incorporates numerous design features to ensure a fast and simple installation
- Designed to support Cat 6 & Cat 6A structured cabling systems
- Suitable for screeded depth from 55mm to 110mm (Height adjustment kits and floor coverings must be used)
- Minimum finished floor thickness (including carpet, tile etc) is 74mm, with a 35mm wiring space. Can be reduced to 64mm if a 25mm wiring space can be utilised. (A CUBA-1 adjustment kit must be used)
- Floorboxes are IP2X rated in accordance with BS EN 50085-1
- Choice of 1, 3 or 4 compartment floorboxes
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- PVCu ducting manufactured from 100% recycled material*
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance to the 18th Edition of the IET Wiring Regulation (BS 7671)
- 5 year guarantee

Top tips

- Distance between two junction boxes must not exceed 6 metres
- **Service Outlet Boxes** – fixed only on branch ducts and not on header ducts. Fixing service boxes on the header ducts affects cable capacity and constricts the header
- **Workstations** – locate over Service Outlet Boxes so that it does not interfere with normal office traffic

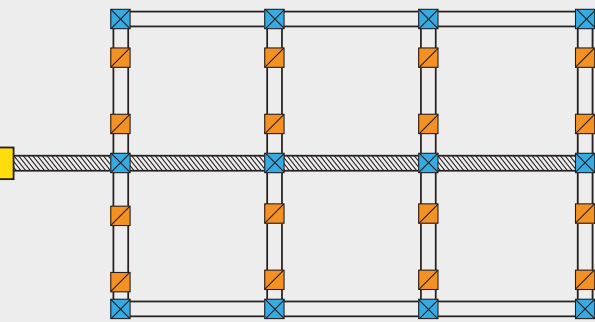
Layout

In order that the installation may exhibit the desired flexibility, the ducting is usually laid out on either a Grid, Fishbone or a Comb Pattern of single, double or triple runs.

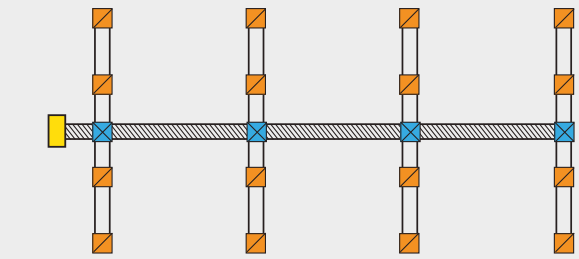
A **Grid Pattern** is widely used in areas where the occupants require the highest degree of flexibility in reorganising work areas. Capacity can be increased by returning individual ring mains through different runs of duct which in itself allows easier installation.

The **Fishbone Pattern** is ideal for a medium sized area where lesser boxes are required.

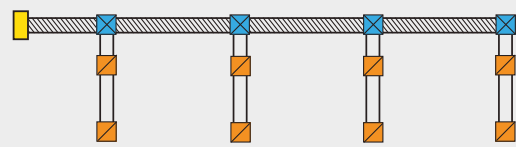
The **Comb Pattern** is the most economical way of installation where least duct is used. The comb pattern is suited for medium to small office areas.



Grid pattern



Fishbone pattern



Comb pattern

- ▬ Header Runs
- ▬ Service Outlet Box
- ▬ Vertical Access Box
- ⊠ Universal Junction Box
- ≡ Branch Runs

For a full range of corresponding products, see pages 45-56.

Cablelink Plus Screed System

Cable Capacity Guide

The cable factor table below is based on the 18th Edition of the IET Wiring Regulation (BS 7671) and must be regarded only as a guideline. Care should be taken in selecting adequate trunking sections taking into consideration the number and size of cables involved and construction of the junction box. It is recommended that the initial design of trunking installations include adequate provision for future wiring. To determine the size of the trunking required, multiply the quantities of each size of conductor and appropriate factor from Table A and compare the total with the capacity unit figure in the appropriate Table B.

TABLE A – CABLE FACTORS		
CABLE TYPE	CSA	CABLE FACTOR
POWER CABLES		
PVC Stranded	1.5mm²	8.6
	2.5mm²	12.6
	4mm²	16.6
	6mm²	21.2
	10mm²	35.3
	16mm²	47.8
Twin & Earth	25mm²	73.9
	2.5mm²	86
	4mm²	99
	6mm²	148
DATA CABLES		
Cat 5E UTP	5.5mm dia	30.2
Cat 5E STP	6.0mm dia	36
Cat 6 UTP	6.5mm dia	42.2
Cat 6 STP	7.0mm dia	49
Cat 6A	8.0mm dia	64

Sample calculation

- To estimate the total number of cables that can be accommodated with a 100 x 38mm ducting:
- Step 1

Pick the factor from Table B corresponding to 100 x 38 = 1563
- Step 2

Select the size of the cable that needs to be pulled through the trunking and its corresponding factor from Table A e.g. 4mm² stranded = 16.6
- Step 3

No. of cables = Value from (Table B / Table A)
e.g. 1563/16.6 = 94 Cables.

Top tips

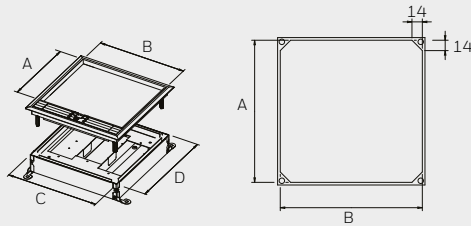
- The number and location of boxes will depend on the end user requirements
- If the furniture layout is available, a floor box should be considered for each workstation or desk
- If the final furniture layout is not available as a general guide the minimum recommended distribution is one floor box for every 10m², and the maximum being one floor box per 4m²

TABLE B – METAL SCREED DUCTING CABLING CAPACITY			
SIZE (MM)	COMPARTMENT SIZE	CAPACITY 100%	CAPACITY (45% FILL)
100 x 38	100 x 38 (1 comp)	3474	1563
225 x 38	112 x 25 (2 comp)	3940	1773
	75 x 38 (3 comp)	2613	1176
250 x 38	13 x 38 (3 comp)	2909	1309
275 x 38	91 x 38 (3 comp)	3206	1443
300 x 38	100 x 38 (1 comp)	3503	1576

Cablelink Plus Screed System ducting complies with BS EN 50085-1:2005 and BS EN 50085-2-2:2008.

The above table gives the available capacity units on 45% factor, applied to the internal wiring area.

Carpet Cut out Dimensions



The table below shows the sizes required for the carpet lid infill and carpet tile cut out for the Cablelink Plus Screed Floorboxes.

LID LIST NUMBER	CARPET LID INFILL DIMENSIONS (mm)		BASE LIST NUMBER	BOX CARPET CUT OUT DIMENSIONS (mm)	
	A	B		C	D
CXL100	152	93	CUB100	100	100
CXL265	219	251	CUB265	265	265
CXL340	219	326	CUB340	340	340
CUJL265	253	253	CUJ265	265	265
CUJL340	328	328	CUJ340	340	340

DUCTING CABLE CAPACITY – DATA CABLES				
DUCTING CAPACITY mm²	60MM DUCTING		90MM DUCTING	
	1025		2300	
NOMINAL CABLE DIAMETER mm²	NUMBER OF CABLES			
	60mm DUCTING		90mm DUCTING	
	@50%	@75%	@50%	@75%
5.5	17	25	38	57
6	14	21	32	48
6.5	12	18	27	41
7	10	15	23	35
8	8	12	17	26

Cablelink Plus Screed System

Cablelink Plus Screed Service Box

- Materials

UL94 V2 rated nylon, Pre-galvanised steel.
- Strength

The floor outlet boxes are capable of resisting minor accidental loading when rigidly supported under the outer rim of the cover frame.
- Fire

The outer casing of the floor outlet box is manufactured from metal and is non-combustible. The 8mm recess frame and lid assembly is made from UL94 V2 rated nylon the 12mm recess frame and lid assembly is manufactured from metal and is non corrosive.
- Chemical resistance

Non corrosive.
- Water absorption

The floor outlet boxes are for use in situations where the cleaning method used does not result in the formation of pools of liquid or soaking of the floor surface.
- Degree of protection

Enclosure classification of IP2X when installed in accordance with the instructions set out in the installation guide.

Ambient Temperature Range

	MINIMUM	MAXIMUM
Handling and storage	-5°C	60°C
During installation	-5°C	60°C
Operating	-5°C	40°C

Average not to exceed 35°C in any 24 hour period.

RAL Colours

Grey (GRY) = RAL 7011

PVCu Ducting and Accessories:

- Manufacture

Duct straight lengths are extruded from 100% recycled PVCu. Fittings are formed by injection moulding*.
- Appearance

All PVCu duct and accessories are normally smooth, matt white finish.
- Strength

Heavy gauge, medium impact resistance under normal conditions.
- Fire

Non flame propagating. Class 1 spread of flame.
- Chemical resistance

Non-corrosive and not affected by sea water. Excellent resistance to mineral acids, alkalis and detergents but liable to attack from solvents such as alcohol, ketones, aromatics and hydrocarbons.
- Vermin

Resistant to vermin and termites.
- Thermal

Lower and upper limit of range of ambient temperature from -5°C to 60°C. All products are designed to accommodate local thermal expansion and fitting instructions cover differential movement at the interface with the building fabric. Thermal expansion co-efficient: 5.5 x 10-5/°C.
- Electrical

Duct is non-conductive.
Dielectric strength: 40kV/mm in DBP
17kV/mm in tx oil.
- Durability

Volume resistivity: >1014 cm.

The product is stable within the terms and conditions described above and will maintain its performance characteristics.
- Workability

The duct is light weight and can be readily cut with hand tools. Short lengths can be readily incorporated and there is low wastage of material. Components and joints can be solvent welded together where necessary.

Metal Duct and Accessories

- Material

Pre-galvanised sheet steel.
- Standard thickness

1.2mm.
- Standard length

2.44 metres.
- No. of compartments

1, 2 or 3 compartments.
- Standard depth

38mm.
- Couplers have to be ordered separately.

Cablelink Plus Screed System

Installation Guide for Underfloor Duct System

The structural floor slabs on which the underfloor ducts and boxes are to be laid must be reasonably level and smooth. Humps and protruding cement must be levelled to ensure the ducts being laid will maintain the minimum screed thickness of 25mm over the ducts. It is recommended that a layer of green screed be laid on the structural slab beneath the underfloor ducts to prevent air gaps and vacuum while screeding.

1 The floor slab where junction and service outlet boxes are to be laid should be marked out. The appropriate duct entry plates should be fastened to the boxes.

Ducts should be laid in straight lines between points of junction boxes and parallel to known base lines on each floor. Changes in direction of ducts should be made with junction boxes.

Use steel fixing clips to secure the ducts on to the floor slab prior to screeding. The intervals between two saddles should not exceed a maximum of 2 metres.

All joints in ducts and terminations of ducts in junction boxes / vertical access boxes should be made water tight with approved type sealing compound. Precaution should be exercised during construction to prevent damage to the ducts system and to ensure that the ducts and vertical boxes are free of water, dirt, debris or any other obstruction which may impede and / or damage the cables during pulling in.

2 Junction and service outlet boxes should be properly covered with the disposable lids and taped to ensure no cement gets into the boxes during screeding.

After screeding the disposable screed cover is removed and the cable installation can begin.

3 If extra space is required under the accessory mounting tray then height adjuster kits can be used. The cables can now be installed and the services terminated.

Note: The bases are supplied with 35mm wiring space, with the option to reduce to 25mm or increase to 45mm with a height adjustment kit – part number CUBA-1 see page 417.

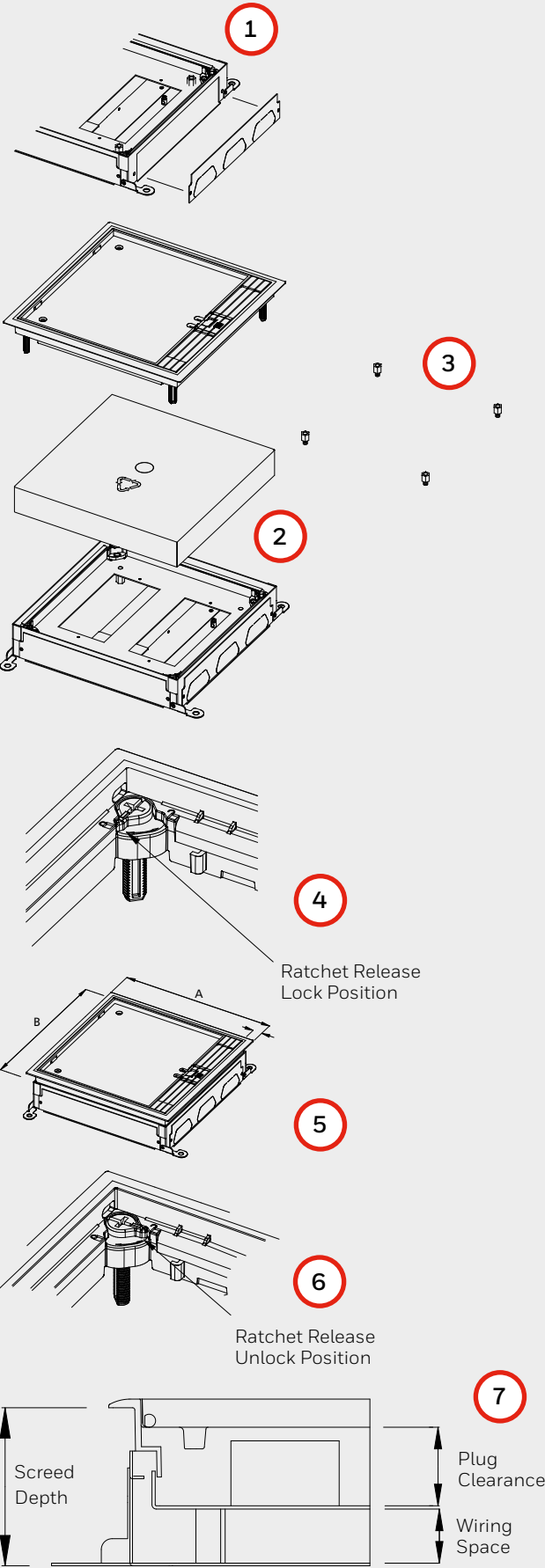
4 The frame and lid assembly can now be fitted. Ensure the ratchet release is set to the lock position and align these with the ratchets in the accessory tray.

5 Apply gentle pressure until the frame is securely seated in the box and against the finished floor e.g. carpet or vinyl.

6 If the frame and lid assembly requires to be removed or rotated to ease cable egress then the ratchet releases should be rotated to the unlock position and the frame can be lifted out of the floorbox. The assembly can then be rotated and fixed as before.

Note: The lid should be completely removed from the frame before attempting to release the frame.

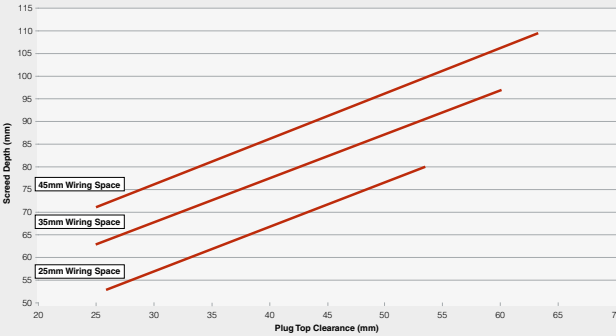
7 Attention must be paid to ensure there is both sufficient wiring depth and plug top clearance for the particular cables / plugs being used in each installation.



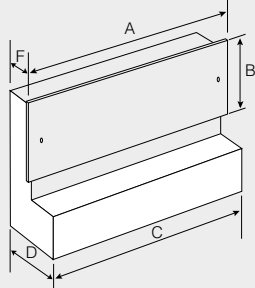
Cablelink Plus Screed System

Screed Depth – 25mm, 35mm and 45mm Wiring Space

This graph enables the specifier / installer to determine which depth the screed (plus floor covering) must be in order to achieve a certain accessory wiring space and plug top clearance within the floorbox. For example if the specifier requires a 35mm standard wiring depth and a 45mm plug top clearance then the graph shows that an 82mm screed (plus 8mm non-compressible floor covering) depth is required. Alternatively, if the depth is fixed, at 90mm for example, then by having a 45mm wiring space the resulting plug top clearance will be 43mm. If additional plug top clearance is required then the wiring depth can be reduced to 35mm or even 25mm providing a plug top clearance of 53mm or 63mm respectively. Care must be taken to ensure there is sufficient wiring depth and plug top clearance for each individual installation. All these dimensions are based upon the floor covering being 8mm thick when fully compressed. If the floor covering is thicker or thinner then the screed depth must be reduced or increased as appropriate. When no floor covering is to be used the minimum screed depth with a 25mm wiring space is 64mm. For screed depths greater than 105mm, service boxes are provided with fixed wiring spaces of 75mm, 100mm, 125mm and 150mm respectively.



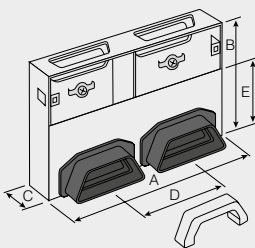
Vertical Access Boxes: Metal Ducting



LIST NUMBER	TO SUIT BOX	COVER PLATE DIMS	
		A (mm)	B (mm)
FLUSH COVER PLATE (SUPPLIED A STANDARD)			
n/a	CUV265	265	90
n/a	CUV340	340	90
OVERLAPPING COVER PLATE			
CUVP265	CUV265	285	100
CUVP340	CUV340	360	100

LIST NUMBER	BOX DIMENSIONS (mm)			
	C	D	E	F
CUV265	265	85	50	200
CUV340	340	85	50	200

Vertical Access Boxes: PVC Ducting



LIST NUMBER	TYPE	DIMENSIONS (mm)				
		A	B	C	D	E
SHALLOW ACCESS						
SF88152	Twin	260	170	50	110	100
SF88153	Triple	370	170	50	110	100
FULL ACCESS						
SF88172	Twin	260	270	50	110	100
SF88173	Triple	370	270	50	110	100

Cover Plates

LIST NUMBER	TYPE	DIMS (mm)		LIST NUMBER	TYPE	DIMS (mm)	
		A	B			A	B
OVERLAPPING SHALLOW ACCESS				FLUSH SHALLOW ACCESS			
SF88180	Twin	280	80	SF88176	Twin	260	70
SF88181	Triple	390	80	SF88177	Triple	370	70
OVERLAPPING FULL ACCESS				FLUSH FULL ACCESS			
SF88188	Twin	280	180	SF88184	Twin	260	170
SF88189	Triple	390	180	SF88185	Triple	370	170

Cablelink Plus Screed System

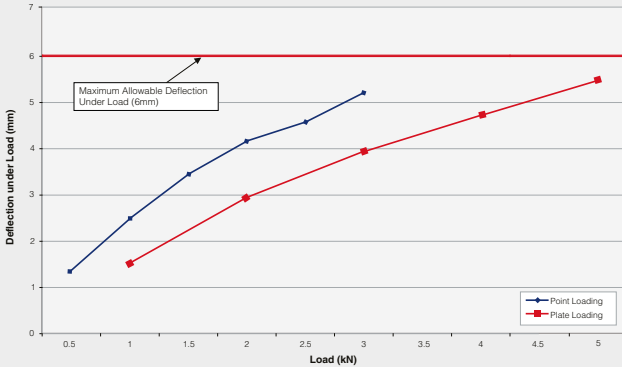
Load Testing

Load Testing of Floorboxes to BS EN 50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

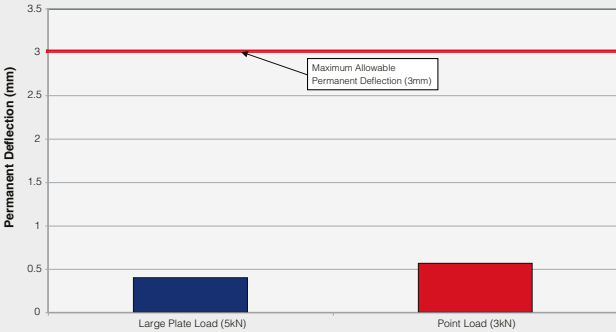
The floorboxes have been tested to and comply with the loading requirements of BS EN 50085 Part 2-2 (Cable trunking systems and cable ducting systems for electrical installations Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor).

There are two loading criteria for the floorboxes – one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum permanent deflection after the load has been removed is 3mm.

Lid Deflection – Cablelink Plus 265 x 265mm Frame Assembly



Permanent Deflection After Removal of Load – Cablelink Plus 265 x 265mm Frame



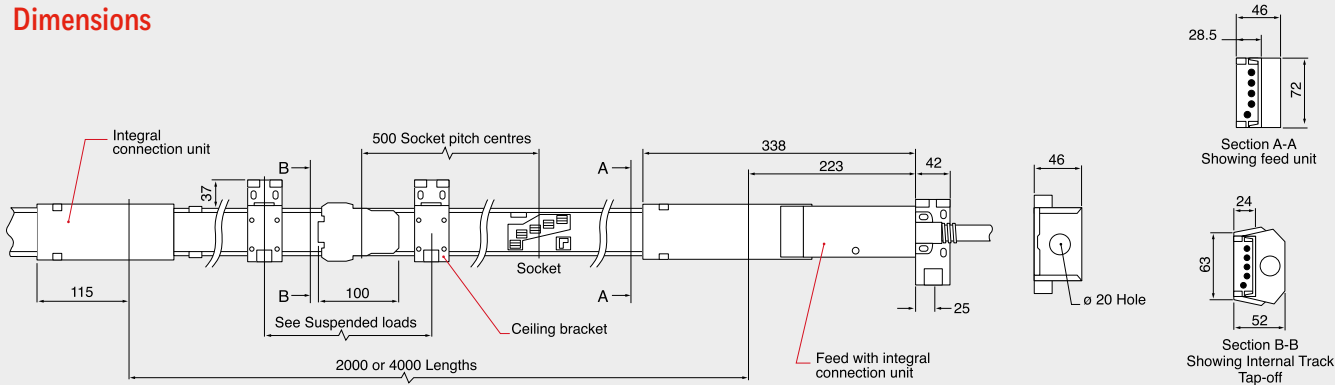
Cat 6 Compatibility

With Cat 6 & Cat 6A data cabling the orientation and depth of many data outlets has changed resulting in the need for greater backbox depths and wiring space to accommodate these longer data outlet. No longer is a 35mm wiring space sufficient to ensure data terminations can be made to the manufacturer’s recommendations to prevent transmission losses.

45mm wiring space for the Cablelink Plus floorbox system is available. This easily accommodates the longer Cat 6 & Cat 6A data outlets and leaves sufficient space for the data cable to run underneath it.

Interact Overhead Power

Dimensions



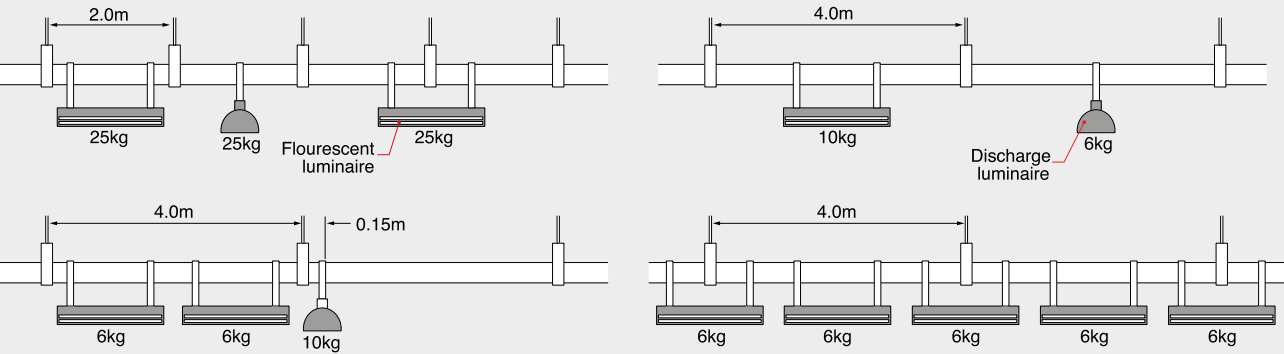
Suspended Loads

The load that can be suspended from the overhead powertrack is dependent on the distance between the supports. Loads should be evenly distributed between hanging brackets. The maximum deflection should not be greater than 1/300.

The spacing between the powertrack ceiling brackets should not exceed 4 metres. The guidelines below should be followed when deciding on the number of ceiling brackets required.

The rods should be of suitable size to carry the combined weight of the track plus the suspended load.

Joints between two lengths of track should be no greater than 500mm from a hanging bracket.



Note: These values are for edge mounted track only. Flat mounted track should not be used for load suspension.

40A POWER TRACK WEIGHT				
LENGTH M	NUMBER OF COPPER CONDUCTORS			
	2+PE	3+PE	4+PE	5+PE (& DUAL GREY)
2	3.1 Kg	3.36 Kg	3.61 Kg	3.87 Kg
4	5.72 Kg	6.22 Kg	6.73 Kg	7.23 Kg

INTERACT OVERHEAD

TECHNICAL

Interact Overhead Power

Standards and Approvals

Manufactured within ISO 9000 environment.

TECHNICAL SPECIFICATION		
ELECTRICAL CHARACTERISTICS	OVERHEAD	
Rated Current	40	A
Rated Voltage	480	V
Frequency	50/60	Hz
Conditional Short Circuit Rating	16	kA
Resistance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
Impedance per Copper Conductor (At ambient temperature 20°C)	1.3	mΩ/m
VOLT DROPS (FULL LOAD, CONCENTRATED AT ONE END)		
Powertrack (Line + Neutral)	2.9	mV/A/m
Feed Unit	0.3	mV/A
Tap-off Connection	1.6	mV/A
+ 2.5mm² Cable	18	mV/A/m
Joint	0.3	mV/A
Flexible Interlink Unit	0.8	mV/A
+ 6mm² Cable	7.0	mV/A/m
MECHANICAL DATA		
Max. No. of Copper Conductors	5	
Conductor Cross Section Area Nominal	14.4	mm²
Powertrack Casing Copper Equivalent (Where Casing is Protective Earth)	12.0	mm²
Cable Termination Capacity	10	mm²
Tap-off Cable	2.5	mm²
Flexible Interlink Cable	6	mm²
Flexible Interlink Conduit	25	Ømm
Feed Conduit Entry	20	Ømm
IP Rating	2X	

MATERIALS SPECIFICATION	
Powertrack Casing, Feeds and Brackets	Galvanised Steel
Conductors	High Conductivity Copper
Powertrack Insulators	40A Polyamide and Polyester
Sockets/Tap-off Plug/Joint Mouldings	Polycarbonate
Interlink Flexible Conduit	Galvanised Steel
Tap-off Cable	Multi-core Cable to BS 6500 and BS 7211. LSF Cable standard.
TAP-OFF PINS	
– Line, Neutral & Copper Earth	Copper and Phosphorous Bronze, tin plated
– Casing Earth	Brass, tin plated
Flexible Interlink Cable	Tri-Rated to BS 6231

Range	Product Pages	Technical Data
RAISED FLOOR SYSTEMS		
Interact Underfloor	9 - 14	66 - 67
NEW - MK Essentials Floorbox	16 - 18	68 - 69
Cablelink Plus Single Pan Box	19 - 22	70 - 71
Grommets	23 - 26	72
DESKING SOLUTIONS		
NEW - Above the Desk and In-Desk Modules	27 - 29	73 - 74
Deskpod	30 - 33	76
SCREED FLOOR SYSTEMS		
Onix Plus	35 - 44	77 - 80
Cablelink Plus Screed System	45 - 56	81 - 86
OVERHEAD SYSTEMS		
Interact Overhead Power	57 - 61	87 - 88
Hangmann	62 - 64	