Cablelink Plus Modular Floorbox

Cablelink Plus Raised Modular Floorboxes have been specifically engineered to ensure robustness, a faster installation and maximum life span flexibility.

- Tested to EN50085-2-2 to accept 5000N load
- Quick release blades ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Choice of two frame sizes provide 3 and 4 module solutions to suit all applications
- Self Closing lid in accordance with IEC 61534-22
- Wide range of power and data accessories available to meet all requirements
- Quality, reliability and safety come as standard
- Provision of RCD protection supports compliance with the 17th Edition Wiring Regulations
- 5 year guarantee

Materials

All plastic components are manufactured from UL94 V2 rated nylon.

Metal components are manufactured from pre-galvanised steel, accessory plates are powdercoated or colour coated.

RAL Colours

Grey (GRY) = RAL 7011

Light Grey (LGY) = RAL 7046

Standards

The Cablelink Plus Modular Floorbox supports compliance with the latest edition of the IEE Wiring Regulations (BS 7671:2008) and to BS EN50085 Part 1 and EN50085 Part 2-2. Additionally the floorboxes also comply with IEC 60670 Parts 1 and 23.

Installation

Cablelink Plus Modular 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

Load Testing

Load Testing of Floorboxes to draft pr EN50085 Part 2-2 (Clauses 10.5.103 and 10.5.104).

The floorboxes have been tested to and comply with the loading requirements of draft pr EN50085 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).

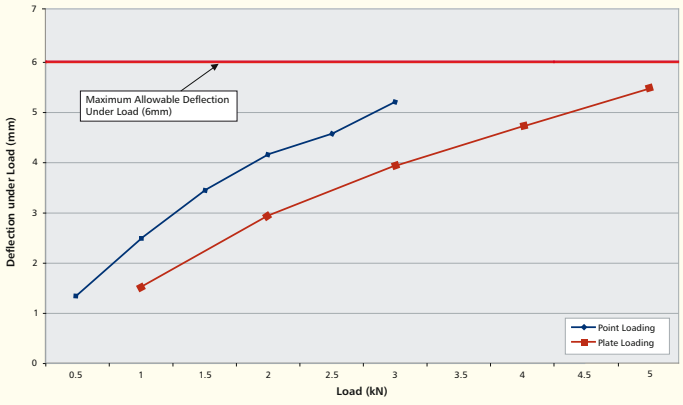
There are two loading criteria for the floorboxes - one with a point loading to replicate foot traffic for example, and the other, with a large plate to replicate fork trucks and heavier larger loads for example. For both loading criteria the maximum allowable deflection under load is 6mm and the maximum 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 point loading classification achieved is 3kN and the maximum large plate loading classification achieved is 5kN.

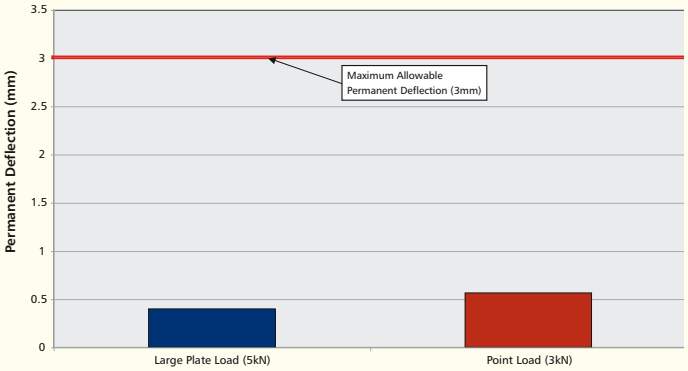
The Permanent Deflection graph shows the permanent deflection from the test wheel loading at 3kN is 0.55mm and large plate loading at 5kN is 0.4mm. This is well within the maximum allowable deflection of 3.0mm.

Note: This test data specifically refers to the 265x265mm sized floorbox frame 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 – Cablelink Plus 265x265mm Frame Assembly

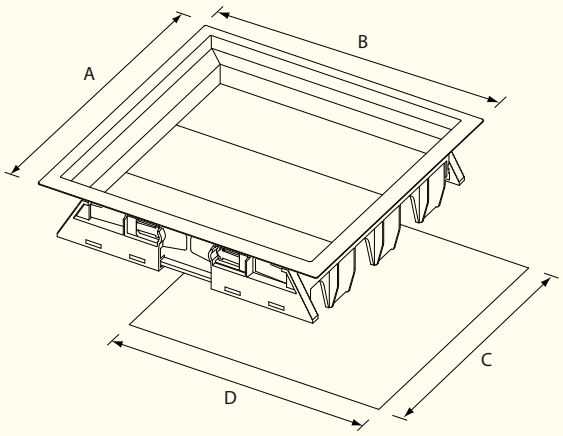


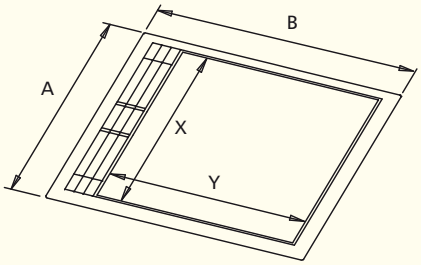
Permanent Deflection After Removal of Load – Cablelink Plus 265x265mm Frame



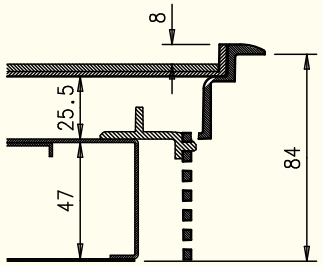
Cablelink Plus Modular Floorbox

Floorbox: Tile and Frame and Floor Tile Cut-Out Dimensions for 3 and 4 Module Box

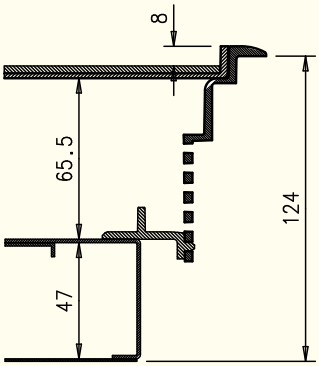




MINIMUM DEPTH (mm)



MAXIMUM DEPTH (mm)



DIMENSIONS (mm)		
	3 Module	4 Module
A	287	287
B	287	362
C*	266	266
D*	266	341

* Tile cut out general tolerance = +1.5mm.

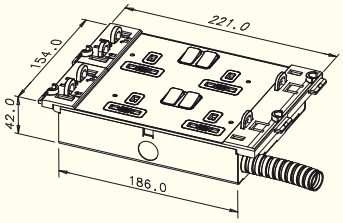
The table below shows the sizes required for the carpet lid infill for the Cablelink Plus Modular Floorboxes.

	265x265mm		340x265mm	
	X	Y	X	Y
Carpet Infill (mm)	251	219	326	219

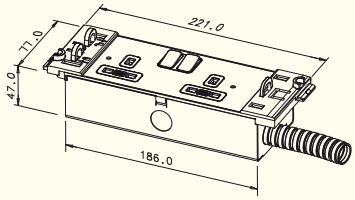
Where X is from left to right and Y is from back to front.

Cablelink Plus Module Dimensions

CRM11750



CRM11730



Knockouts

	End Knockout (conduit entry)		Side Knockout (interlink)
	20mm	25mm	20mm
Power	2	-	2
Non-Power	1	1	2
6 x LJU6C Only (CRM21301)	-	2	2

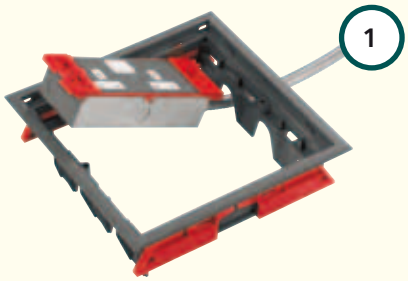
Cat 6 Compatibility

With the introduction of 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. 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 data outlets and leaves sufficient space for the data cable to run underneath it.

Cablelink Plus Modular Floorbox

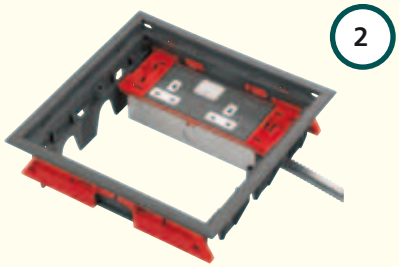
Installing Modules into the Cablelink Plus Modular Floorbox

To install a module into the Cablelink Plus Modular Floorbox, firstly ensure the sliding bracket is pushed towards the centre of the module.



(1) Lower the opposite end into the box and push the tab firmly into the slot in the ladder at the height the module should be positioned.

The other end is then lowered down so that the tab on the sliding bracket is level with the same slot on the other side of the frame.



(2) Holding the module with the built in handles, the sliding bracket is then pushed outwards so that the tab engages with the correct slot.

A screw is then used to fix the sliding bracket in place.

The module is now secure. The procedure is reversed in order to remove a module.

Dual Earth Sockets and High integrity Earthing†

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 17th Edition of the IEE 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 the the 17th Edition of the IEE Wiring Regulations† is intended to maintain at all times the CPC to ensure safety.

Clean Earth Sockets

Clean Earth Sockets allow the designer and 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.

Earthing on Data modules for Modular Raised

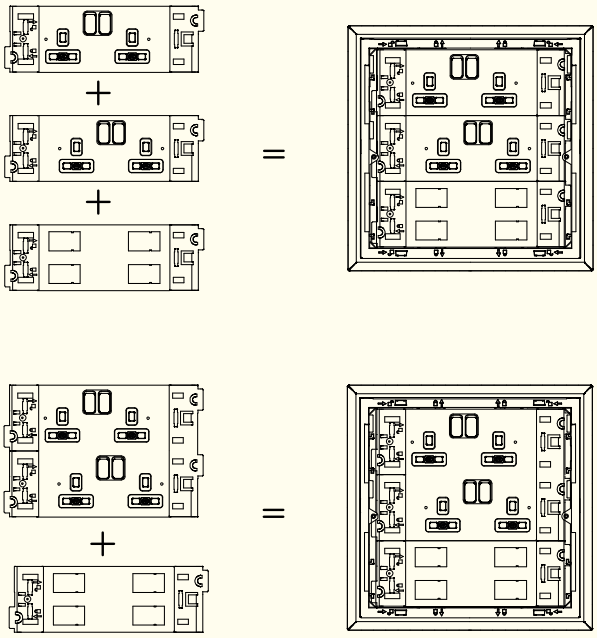
Earthing studs are provided on all Unserviced data modules to enable a reliable connection to earth to be made. Earthing Kit CX-10 is recommended for use to ensure the earthing cable is connected correctly.

† In the published 17th Edition of the IEE Wiring Regulations, these requirements are found in Regulation 543.7. (16th Edition = Section 607)

Serviced Power Modules

- Modules are available Left Hand and Right Hand to achieve a 'staggered' arrangement
- 'Staggered' arrangement ensures strain relief clearance for moulded plug tops
- Add '**RH**' suffix for Right Hand Module, e.g CRM11730**RH**
- When four socket outlets are required, order CRM11750 as 'staggered' arrangement is built in

3 Compartment Boxes



Installing Cablelink Plus Modular Floorbox - Blades

- Quick release blades to secure firmly in position for a "fit and forget" installation
- No tools required for faster installation
- Self adjusting blades – ensures floorbox remains secure throughout service life
- Fixes to floor thicknesses of 15-50mm