Cable Management System
Environmental and Combustion Controls (ECC), India, is part of Honeywell’s global Automation and Control Solutions business. ECC is a $2.4 billion global business with installations in more than 150 million homes, 10 million buildings and a multitude of manufacturing plants around the world. ECC offers integrated product solutions for various residential, commercial and industrial applications ranging from HVAC Solutions, Water Controls, Wiring Devices, Cable Management, Circuit Protection Devices, Lighting Controls, Building Control Solutions and Commercial & Industrial Combustion. As part of its global operations, all ECC brands share the same commitment towards innovation, quality, safety and customer service. Brands that operate under ECC in India are MK, Trend, Alerton, Webs-AX™, Phoenix Controls, Saia Burgess, INNCOM and Maxon. ECC has over 9 sales offices across the country, three state-of-the-art manufacturing units in Chennai, Dehradun, and Vadodara, and an extensive pan-India distribution network. With its ‘Customer First’ approach, ECC is committed to making life easy and convenient, safer and more secure, more comfortable and energy efficient, with its smart products and solutions.
Ease of installation, customization, flexibility, efficiency and safety are fundamental to the distribution of power, data and telecom cables. Cable Management addresses these needs effectively and provides comprehensive solutions for both Wall and Floor applications.

Cable Management enables installations to be planned to suit specific layout requirements. A complete system that provides ideal solutions for the distribution of cables and access to power, data and communication services on the Wall and under the Floor.

**Wall**

**Powerlink Plus** is a 63A direct online busbar based Cable Management System with plug-in wiring accessories that offers built-in-flexibility for installing power, data, communication services and outlets.

**Prestige 3D Antibac** is the new antibacterial cable management solution for power and data distribution in environments where hygiene is a priority.

**Norwich** is a sturdy, safe, easy to install and highly durable system that offers time saving-cable distribution solutions.

**Prestige 3D** is the new three compartment dado trunking from MK. It is rich in new features, offering installation benefits and improved cable management and also Cat 6 compliant, with Flat Angles and Tees, all allowing continuous cable capacity.

**Premier** offers advanced, integrated cable distribution solutions that are versatile and highly adaptable.

**Floor**

Cable Management Systems are designed to enclose power, telephone and ancillary system service cables, facilitating distribution in commercial and other similar establishments, where open plan office layouts and modern building methods need a versatile arrangement of services for easy installation and flexibility in use.

Cable Management Systems provide the solutions for such cable management needs on the floor.

Underfloor Cable Management Systems are intended for laying on the structural slab prior to the screed being poured.
Cable Management System - Wall

Powerlink Plus System

Pre-wired cable assembly
For electrical connection of busbar around corners

Accessory spacer
For mounting accessories as pairs or any number of in-line multiples

Choice of delivery with Powerlink Plus the choice is yours - hard wiring or an integral 63 amp busbar with power accessories that simply plug into place.

Internal Corner
Supplied with carrier, busbar shield and outer clip-on covers.

Coupler
Joins trunking lengths together and to pre-assembled angles.

End cap
Neatly finishes runs of trunking. Supplied with screw fix carrier/busbar shield and clip on cover.

Features
- Powerlink Plus has the facility to visually co-ordinate virtually unlimited numbers of mains and ELV outlets.
- Powerlink Plus has specially designed plug-in sockets that plug onto the busbars eliminating the need for any hard wiring.
- Ample space provided within the profile allows for high cable capacities in the outer ducts.
- Powerlink Plus is made of self-extinguishing material.

Product Code : K1963WHI
Standard Length : 3 metres
Trunking Size : 170mm (H) x 50mm (D)
Material : PVC-U
Colour : White

Power - Any Time, Any Where

Powerlink Plus is a unique Cable Management System that operates on a busbar principle with ample space provided for a high cable carrying capacity.

Specially designed range of power accessories plug on to the busbar and can be repositioned or added to, should the requirements change.

Besides the busbar facility Powerlink Plus also provides multiple channels for different cable distributions, where Extra Low Voltage (ELV) service cables can be carried. ELV outlets such as telecom, data, etc., can be positioned within the profile and can be rearranged as needed, thereby offering a fully integrated system.

Features
- Powerlink Plus has the facility to visually co-ordinate virtually unlimited numbers of mains and ELV outlets.
- Powerlink Plus has specially designed plug-in sockets that plug onto the busbars eliminating the need for any hard wiring.
- Ample space provided within the profile allows for high cable capacities in the outer ducts.
- Powerlink Plus is made of self-extinguishing material.

Dado Trunking
with 63 Amps busbars
List No. K1963 WHI
170(H) x 50(D)mm

Rear Cable entry section
List No. K1920 WHI
152(L) x 170(H) x 50(D)mm

Cable Connection Box Assembly
for use with K1920WHI
List No. 1922
133(L) x 133(H) x 40(D)mm
KNOCKOUTS:
4 x 20 mm 4 x 25 mm

Coupler
with busbar shield
List No. K1908 WHI

End Caps
with busbar shield
List No. K1904 WHI

Internal Corner
with busbar shield
List No. K1905 WHI

Flush fitting accessories
Powerlink Plus offers a wide selection of flush fitting accessories, including switch sockets, DP switches, connection units and virtually any type of computer and telecom connector. All power accessories are available as plug-on units or with wire-in terminals. If that is not enough, an optional mounting kit will accept virtually any accessory within the entire MK range.
**Powerlink Plus System**

**External Corner**
with busbar shield
List No. K1906 WHI

10mm² Cable Termination
(50 Amps)
(3 pole)
List No. 1923

13 Amps MK Safety Plug
List No. 646 WHI

25mm² Cable Termination
(63 Amps)
(3 pole)
List No. 1924

Busbar Coupler
(Plug-in)
List No. K1925

16mm² Cable Link Assembly
List No. 1919

13 Amps Switch Socket
with Pilot Light
List No. 1951 WHI

13 Amps Switch Socket
without Pilot Light
List No. 1950 WHI

RJ11 Telephone Jack
List No. 1999 WHI

RJ45 Computer Data Jack
(Category 5e)
List No. 1978 WHI

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**Powerlink Plus Technical Data**

The Powerlink Plus system allows compliance in all respect with the 16th Edition of the IEE Wiring Regulations.

**Shape and Size**

Powerlink Plus is divided into three components with the central component containing the busbars.

**Weight**

Powerlink Plus with Busbar 3 kg/mtr

**Cross-sectional area of compartments**

<table>
<thead>
<tr>
<th>Type</th>
<th>No. Comp</th>
<th>Area mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powerlink Plus Outer Duct</td>
<td>2</td>
<td>875</td>
</tr>
<tr>
<td>Powerlink Plus Central Duct (Cable duct Above busbar)</td>
<td>1</td>
<td>180</td>
</tr>
</tbody>
</table>

**Strength**

Heavy distortion resistance to BS 4678 Part 4

Medium impact resistance at -5°C to BS 4678 Part 4

**Fire**

The system is fabricated from self-extinguishing, non-flame propagating material.

Softening point : 75°C

Glowire : 850°C

**Chemical Resistance**

Powerlink Plus is non-corrosive and not affected by sea water. It has excellent resistance to minerals, acids, alkalis and detergents. Good resistance to alcohol but liable to attack from solvents, such as ketones, aromatics and hydrocarbons.

**Degree of Protection**

Enclosure Classification IP 41 (BS 5490) when installed in accordance with the instructions set out in the Installation Guide.
Cable Management System - Wall

**Powerlink Plus System**

**Water Absorption**
Negligible

**Thermal Movement**
The system is designed to accommodate local thermal expansion and contraction when installed as per installation guide.

<table>
<thead>
<tr>
<th>Ambient Temperature Range</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling and storage</td>
<td>-5°C</td>
<td>60°C</td>
</tr>
<tr>
<td>During installation</td>
<td>-5°C</td>
<td>60°C</td>
</tr>
<tr>
<td>Operating</td>
<td>-5°C</td>
<td>50°C</td>
</tr>
</tbody>
</table>

**Workability**
Powerlink Plus can be readily cut and drilled with hand tools. It is lightweight and easy to handle. All interlocking components are manufactured to fine tolerances for easy fit and removal.

**Maintenance**
Complete rearrangement of supply and switch control for modification are possible. The surface of the trunking can be cleaned with a damp cloth and household detergent.

**Electrical**
- **Dielectric strength**: 19.5 KV/mm at 25°C
- **Insulation Volume Resistivity**: $10^{14}$ ohm-cm
- **Busbar rating**: 63 A 250 V AC
- **Busbar Voltage drop**
  - L to N: 3.47mV/A/metre run
  - L to E: 3.47mV/A/metre run
  - N to E: 4.57mV/A/metre run
- **Earth Fault Loop Impedance**: L to E: 3.47 milliohms / metre run
- **Prospective current**: 16.5 kA
  - "Mechanical withstand 10.0 kA peak min, Thermal withstand 3.6 kA seconds."

**Prestige 3D**

- **Profile**: 170 x 57mm profile to suit most installation needs.
- **Available in**: white, charcoal and choice of RAL colour.
- **Styling lines**: All fittings are moulded with styling lines for aesthetic continuity.
- **Internal Corner**: Designed to accommodate irregularities in the squareness of the corner with a +/- 5 degrees flexibility range. The centre split gives maximum adjustment. Covers are radiused and compatible with Cat 6 data cabling requirements.
- **Back Boxes**: 1 gang, 2 gang and 3 gang 'open box' 45mm deep back boxes use the full trunking depth allowing ease of connection to power and data devices. The open top/bottom allows unhindered tool free cable entry, through the trunking compartment divider knockout. The back box can slide to align with appropriate knockout.
- **Trunking Hinge Lids**: A two stage location gives a hinge effect, enabling cables to be supported by the trunking cover during the installation. Cover design avoids dust traps and makes cleaning easier, and continues the aesthetics of the trunking.
Cable Management System - Wall

**Prestige 3D**

- **Product Code**: VP180WHI / VP100WHI / VP110WHI
- **Standard Length**: 3 metres
- **Trunking Size**: 170mm (H) x 57mm (D)
- **Material**: PVC-U
- **Colour**: White

**Features**

- Greater trunking depth to cater for Cat 6 structured cabling systems, supports 45 mm deep back boxes
- Cat 6 compatible flexible Internal and External Corners allows for poor building tolerances
- Divider Knockouts, making wiring easier and faster with no drilling or cutting
- Two stage Hinge Lids enables cables to be supported by the trunking cover during installation, and makes retro-installation of additional cables more simple
- Cat 6 compatible moulded Flat Angles and Tees

Prestige 3D is the new three compartment dado trunking from MK that satisfies the growing data demands of cable management installations, as well as providing greater trunking depth to cater for Cat 6 structured data cabling. Prestige 3D is rich in new features, offering installation benefits and improved cable management. Prestige 3D is Cat 6 compliant, with Flat Angles and Tees, all allowing continuous cable capacity.
New from MK Electric, Prestige 3D Antibac Blue offers an antibacterial cable management solution for power and data distribution in environments where hygiene is a priority. With ongoing concern over hospital acquired infections such as MRSA, the demand for antibacterial products continues to rise. Prestige 3D Antibac Blue is designed to kill bacteria which can grow on surfaces such as trunking systems. It uses a silver based additive inherent within the PVCu which acts as an effective weapon in fighting harmful bacteria such as MRSA, and Klebsiella pneumoniae.

MK offer a complete antibacterial solution, by complementing Prestige 3D Antibac Blue with wiring devices, the entire installation will meet the requirements of an antibacterial specification. The trunking and wiring devices are both open to contact, therefore the control of the spread of bacteria and infections can only be effective with a complete solution. MK’s Prestige 3D Antibac Blue range will meet the demands of the Healthcare Trusts, Infection Control Departments or Facilities Managers specifying antibacterial products, as well as providing the fastest installation for Contractors, the range has been independently verified as 40% faster to install.

- The only manufacturer to offer a complete antibacterial solution
- >99.9% kill rate against MRSA and Klebsiella pneumoniae
- Unique patent pending fluorescence under UV light, providing customer confidence
- Fully Cat 6 compliant
- Patented Data Sweep maximises cable capacity
- Screw fixing kit available for installations where higher security is required, e.g. public buildings, hospitals, schools
- Independently verified as 40% faster to install
Cable Management System - Wall

Prestige 3D Antibac Blue

**PROFILE LENGTHS**
- Main Carrier*
- Straight Cover
- Curved Cover
- Square Cover

**FITTINGS**
- Flexible Internal Corner
- Flexible External Corner
- End Cap

**CONSISTS OF COVER AND DATA SWEEP**
- SUPPLIED LEFT AND RIGHT-HAND PAIR

<table>
<thead>
<tr>
<th>3 METERS</th>
<th>3 METERS</th>
<th>3 METERS</th>
<th>3 METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>9m</td>
<td>30m</td>
<td>90m</td>
<td>30m</td>
</tr>
</tbody>
</table>

**FITTINGS**
- VP180 WHI
- VPAB100 WHI
- VPAB110 WHI x2
- VPAB181 WHI
- VPAB182 WHI
- VPAB183 WHI

- DADO 170 X 57mm
- SKIRTING 170 X 57mm

* Carrier components do not require the antibacterial additive as they have no exposure once the installation is complete. As such, the standard main carrier is sufficient, as are standard back boxes, mounting frames and cable retainers. The carrier components of the External Corner, Flat Angle and Flat Tee are also standard PVC due to no exposure once installation is complete.
# Prestige 3D Antibac Blue

## Accessories

<table>
<thead>
<tr>
<th>Joint Cover</th>
<th>Flat Angle</th>
<th>Flat Tee</th>
<th>Flange and Socket Spacer</th>
<th>Open Back Boxes</th>
<th>Open Mounting Frames*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VPAB184 WHI</strong></td>
<td><img src="image1" alt="Image" /></td>
<td><img src="image2" alt="Image" /></td>
<td><img src="image3" alt="Image" /></td>
<td><img src="image4" alt="Image" /></td>
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<tr>
<td><strong>VPAB185 WHI</strong></td>
<td><img src="image6" alt="Image" /></td>
<td><img src="image7" alt="Image" /></td>
<td><img src="image8" alt="Image" /></td>
<td><img src="image9" alt="Image" /></td>
<td><img src="image10" alt="Image" /></td>
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<tr>
<td><strong>VPAB187 WHI</strong></td>
<td><img src="image11" alt="Image" /></td>
<td><img src="image12" alt="Image" /></td>
<td><img src="image13" alt="Image" /></td>
<td><img src="image14" alt="Image" /></td>
<td><img src="image15" alt="Image" /></td>
</tr>
</tbody>
</table>

**VPAB184 CHA**
- **VPAB185 CHA**
- **VPAB187 CHA**

**VPAB129 WHI**
- Provides colour contrast with wiring device to comply with Part M.

**VP121 WHI**
- 1 GANG MOUNTING FRAME

**VP122 WHI**
- 2 GANG MOUNTING FRAME

**VP123 WHI**
- 3 GANG MOUNTING FRAME

**VP131 WHI**
- 1 GANG 40 MM OPEN MOUNTING FRAME

**VP132 WHI**
- 2 GANG 40 MM OPEN MOUNTING FRAME

1 Gang frame is used in vertical applications. Wings may be removed for greater wiring space.

*Open mounting frames are only suitable where services running in the central compartment are the same as that of the accessories.

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## Cable Retainer

<table>
<thead>
<tr>
<th>Cable Retainer</th>
<th>Screw Fixing Kit</th>
<th>Screening Divider</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VP105 WHI</strong></td>
<td><strong>VTSAB1000 WHI</strong></td>
<td><strong>VX32</strong></td>
</tr>
<tr>
<td><strong>VP194 WHI</strong></td>
<td><strong>VP30</strong></td>
<td><strong>VX33</strong></td>
</tr>
<tr>
<td><strong>VP197 WHI</strong></td>
<td><strong>VP30</strong></td>
<td><strong>VX33</strong></td>
</tr>
</tbody>
</table>

**VP105 WHI**
- CABLE RETAINER

**VTSAB1000 WHI**
- 1.5M SCREWING DIVIDER

**VP30**
- 500 MM SCREEN CONNECTING CABLE

**VX32**
- 500 MM SCREEN CONNECTING CABLE

**VX33**
- 500 MM SCREEN CONNECTING CABLE

**Cable not included**
Advanced Integrated Cable Management

Premier is an advanced integrated Cable Management System for general cable distribution. This modern system provides the means not only to distribute but also to access power, data and communication services throughout a building.

Premier has been designed for surface mounting and includes standard tees, angles, joints and four-way junctions, making it ideal for continuous installations.

The system has specially designed mounting boxes that accept standard MK Wiring Accessories and include telecom and data outlets. Designed with clip-on dividers allowing for multiple compartments.

**Features**

- Premier has a wide range of integrated components that maximize the versatility of applications
- The system has specially made mounting boxes that snap-fit the profile throughout the length. These boxes accept Wiring Accessories making easy installations
- Premier can be sub-compartmentalised, using clip-on cable dividers and retainers, integrating multiple services safely and efficiently
- RoHS Compliant
- Improved packing features

**Product Code:**

NCT1050D1WHI 100mm(H) x 50mm(D) - 4 Compartments*
NCT5050 50mm(H) x 50mm(D) - 2 Compartments*

*4 Compartments
(Maximum 3 cable dividers can be used)
*2 Compartments
(Only Single cable divider can be used)

Standard Length: 2 meters
Material: PVC-U
Colour: White
Thickness: 2.5mm

Cable retainer to avoid sagging of cables
Moulded flat cross available for distribution trunking
Reducers are used to connect different sizes of trunking
Internal and external corners
Cable Management System - Wall

Premier System

Chemical Resistance
Premier is non-corrosive and not affected by sea water. It has excellent resistance to mineral acids, alkalis and detergents. Good resistance to alcohol but liable to attack from solvents such as ketones, aromatics and hydrocarbons.

Electrical
Premier is non-conductive
Dielectric Strength: 40 kW/mm in DBP
17 kW/mm in TX Oil
Volume Resistivity: $>10^{16}$ ohms at 50% RH & 23°C

Thermal Properties
Premier is designed to accommodate local thermal expansion and contraction when installed in accordance with the Installation Guide.

Coefficient of linear expansion
$5.5 \times 10^{-5}$ per °C (6mm/400mm with a temperature rise of 25°C)

Operating temperature: -5°C to 60°C
Vicat softening point: 81°C
Thermal conductivity: 0.19 w/m/°C

Workability
Premier is lightweight and can be readily cut and drilled with hand tools. Covers and accessories are manufactured to fine tolerance to ensure a tight fit with ease of removal.

Durability
Premier is resistant to vermin and termites. It is stable and will maintain its performance characteristics under the terms and conditions described above.

Maintenance
Clip-on covers constant accessibility for rewiring extensions and modifications to an installation.
Covers and accessories can be cleaned with water and household detergents. The surface can be decorated with commercial paints if necessary.

Premier System - NCT1050D1WHI and NCT5050

<table>
<thead>
<tr>
<th>Commercial Dado Trunking</th>
<th>Industrial Feeder Trunking</th>
<th>Cable Divider 50mm Deep</th>
<th>Cable Retainer</th>
<th>Cable Retainer</th>
<th>Internal Couplers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 metre</td>
<td>3 metre</td>
<td>3 metre</td>
<td>Moulded</td>
<td>Moulded</td>
<td>Moulded</td>
</tr>
<tr>
<td>List No. NCT1050DWHI</td>
<td>List No. NCT5050</td>
<td>List No. NVS50WHI</td>
<td>List No. NBP100WHI</td>
<td>List No. NBP50WHI</td>
<td>List No. NCI5050WHI</td>
</tr>
<tr>
<td>100(H) x 50(D)mm</td>
<td>50(H) x 50(D)mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| External Angles 90°      | Flat Angles 90°           | Flat Cross               | Internal Angles 90° | Joint Cover    |
| Moulded                  | Moulded                   | Moulded                  | Moulded            | Moulded        |
| List No. NAE5050WHI      | List No. NAF5050WHI       | List No. NCU5050WHI      | List No. NA15050WHI | List No. NJC5050WHI |
| NAE1050WHI               | NAF1050WHI                | NCU1050WHI               | NA1050WHI          | NJC1050WHI     |
Cable Management System - Wall

Premier System - NCT1050D1WHI and NCT5050

<table>
<thead>
<tr>
<th>Internal Angles 135°</th>
<th>External Angles 135°</th>
<th>1 To 3 Module Mounting Box</th>
<th>4 To 5 Module Mounting Box</th>
<th>8 Module Mounting Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabricated</td>
<td>Fabricated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>External Tees 90°</th>
<th>Flat Tees 90°</th>
<th>Internal Tees 90°</th>
<th>End Caps</th>
<th>1050 Spacer for Premier Boxes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabricated</td>
<td>Moulded</td>
<td>Fabricated</td>
<td>Moulded</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Under Box Divider</th>
<th>Under Box Divider</th>
<th>Reducer</th>
<th>Wall Plates For Internal Angle</th>
<th>MCB/RCD Housings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - 3 Module</td>
<td>4 - 5 Module</td>
<td>NCT 1050 to NCT 5050 50 x 50mm Fabricated</td>
<td>Moulded</td>
<td></td>
</tr>
</tbody>
</table>

Premier Technical Data

Premier Cable Management System is made in accordance with the requirements of BS 4678 Part 4 Heavy Duty Classification and BS 4662.

Manufacture / Fabrication

Trunking and cable dividers are extruded. Internal couplers, stop ends, joint covers, most outside, inside and flat angles, all flat tees, cable retainers and accessory boxes are moulded. Outside and inside tees, flange couplers, reducers, partition wall covers and 45 degree flat, outside and inside angles are factory prefabricated.

Appearance

The extruded components with the exception of lid, have a standard white semi-matt finish. The lid is extruded with a contrasting linear surface pattern. The moulding components are similar in standard white finish, and the lids have a textured finish.

Shape and Size

Premier Trunking is available in both rectangular and square cross sections. It comes in two sizes.

Strength

High impact resistance under normal climatic conditions. Charpy notched impact strength : 25 KJ/m² Tensile strength : At yield 34.62 N/mm² At break 42.00 N/mm² Density : 1.35 to 1.45

Fire

The material used are non-flame propagating and a Class 1 spread of flame achieved when tested in accordance with the requirements of BS 476 Part 7.
## Norwich System

### A Sleek, Safe and Sturdy Solution

Norwich is a sleek, safe, sturdy and easy to use Cable Management system. Norwich with an inside cross section area of 3230 sq.mm provides for large cable carrying capacity.

The sturdiness of Norwich makes it ideal for both wall and ceiling mounting.

### Features

- Safe, sturdy, durable, easy to assemble and install.
- Robust profile, with the base thickness at 2.5mm, for enhanced strength and durability.
- Norwich system is designed to accept specially made mounting frames, that snap-fit onto the profile.
- The special design of Norwich base and clip-on cover, ensures that the system is steady in its place.
- Easy to add accessories are available.
- RoHS compliance for environment-conscious users.
- Tougher packaging for eliminating damages during transit.

### Norwich Technical Data

Norwich Cable Management system is manufactured in accordance with the requirements of BS 4678 Part 4. It fully complies with the 16th Edition of IEE Wiring Regulations.

**Manufacture**

Trunking and lid are extruded. Flat angle, Flat tee, Internal angle and External angle are fabricated. Socket mounting frames and End caps are moulded.

**Appearance**

The extruded components have a standard white semi-matt finish. The moulding components are similar in appearance to the main body in standard white finish.

**Strength**

High Impact resistance under normal climatic conditions.

Charpy notched impact strength : 25 KJ/m²

Tensile strength : At yield 34.62 N/mm²

At break 42.00 N/mm²

Density : 1.35 to 1.45

**Fire**

The material used are non-flame propagating and a Class 1 spread of flame achieved when tested in accordance with the requirements of BS 476 Part 7.

**Chemical Resistance**

Norwich is non-corrosive and not affected by sea water. It has excellent resistance to mineral acids, alkalis and detergents. It offers good resistance to alcohol but liable to attack from solvents such as ketones, aromatics and hydrocarbons.
Cable Management System - Wall

Electrical
Norwich is non-conductive
Dielectric Strength: 40 Kw/mm in DBP 17 Kw/mm in TX Oil
Volume Resistivity: >10^10 ohms at 50% RH and 23°C

Thermal Properties
Norwich is designed to accommodate local thermal expansion and contraction when installed in accordance with the installation guide.
Co-efficient of linear expansion:
5.5 x 10^-5 per°C (6mm x 4000mm with a temperature of 25°C)
Operating temperatures: -5°C to 60°C
Vicat Softening point: 81°C
Thermal conductivity: 0.19 w/m/°C

Workability
Norwich can be readily cut and drilled with hand tools

Durability
Norwich is resistant to vermin and termites. It is stable and will maintain its performance characteristics in accordance with the terms and conditions described above.

Maintenance
Clip-on covers provide continuous accessibility for rewiring extensions and modifications to an installation.
Covers and accessories can be cleaned with water and household detergents. The surface can be decorated with commercial paints if necessary.

Mini Trunking
MK introduces mini trunking 32x12.5mm size of extruded PVCu sections for the containment of electrical and data cabling for surface wiring. The products are ideally suited for refurbishment as well as new installation projects, both in the domestic and commercial sectors.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
<th>UOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>YT200WHI</td>
<td>Mini Trunking 32mm X 12.5mm</td>
<td>Mtrs.</td>
</tr>
<tr>
<td>YTF200WHI</td>
<td>Flat Tee</td>
<td>Nos.</td>
</tr>
<tr>
<td>YC200WHI</td>
<td>Coupler</td>
<td>Nos.</td>
</tr>
<tr>
<td>YEP200WHI</td>
<td>End Cap</td>
<td>Nos.</td>
</tr>
<tr>
<td>YAI200WHI</td>
<td>Internal Angle</td>
<td>Nos.</td>
</tr>
<tr>
<td>YAE200WHI</td>
<td>External Angle</td>
<td>Nos.</td>
</tr>
<tr>
<td>YAF200WHI</td>
<td>Flat angle</td>
<td>Nos.</td>
</tr>
</tbody>
</table>

Features:
- Easy to assemble and install
- Durable and impact resistant
- Speed fix options allow fast installation
- All extrusions manufactured from 90% recycled material
- Accessories like end caps, couplers and angles for support

Profile details:
- Standard Length: 3mtrs
- Size: 32mm wide x 12.5mm depth
- Material: u PVC

Mini trunking 32x12.5mm (3 mtrs standard length)  Mini trunking Flat tee  Mini trunking coupler  Mini trunking end caps

Mini trunking Internal angle  Mini trunking external angle  Mini trunking Flat angle
MK Underfloor Cable Management Systems comprises four basic groups of equipments which can be used together to provide the desired underfloor configuration:

- Underfloor Access Outlets
- Underfloor M-Traks
- Underfloor Cross Overs
- Underfloor Vertical Access Units

The systems are intended for laying on the structural slab prior to the screed being poured. Screeding levels between 60mm and 75mm can be accommodated and a minimum screed cover of 25mm is recommended over the ducting.

**Underfloor M-Trak**

- Specially treated corrosion proof rectangular profiles for high tensile strength
- Top and bottom plates are double folded and spot welded together to give the required rigidity and at the same time to prevent seepage of concrete or screed water
- Standard thickness: 1.6 mm

**Load bearing capacity**

Underfloor Traks can withstand a maximum load of up to 1.33 Ton force (metric)*. Maximum load measured at 14.01mm deflection.

*1 Ton = 981 Joules/cm = 9806.7 Kilogram metre/sec = 9.81 Kilonewton = 1000 Kilogram force.

**Underfloor M-Trak - UMD 25 mm depth / UMDX 38 mm depth**

<table>
<thead>
<tr>
<th>List No.</th>
<th>Dimensions (Width x Depth x Thickness)</th>
<th>No. of Compartments</th>
</tr>
</thead>
<tbody>
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<td>UMD5016</td>
<td>50 x 25 x 1.6mm</td>
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<td>75 x 25 x 1.6mm</td>
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</tr>
<tr>
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<td>100 x 25 x 1.6mm</td>
<td>1</td>
</tr>
<tr>
<td>UMD22536</td>
<td>225 x 25 x 1.6mm</td>
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<td>UMD25036</td>
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</tr>
<tr>
<td>UMD30036</td>
<td>300 x 25 x 1.6mm</td>
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<td>UMDX10016</td>
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</tr>
<tr>
<td>UMDX30036</td>
<td>300 x 38 x 1.6mm</td>
<td>3</td>
</tr>
</tbody>
</table>
Cable Management System - Floor

**Underfloor Aluminium Trunking**

- Extruded corrosion proof aluminium sections for smoother cable carrying applications
- Box type section, free from any types of welding to prevent seepage of concrete water or rust accumulation
- Smooth edges ensure easy pulling of power and Cat 6 cables
- Installation friendly with easy to cut and easy to shift features

**Underfloor Vertical Access Units**

Vertical Access Units helps to facilitate easy accessibility from Floor Traks to Wall. This is for connections to Distribution boards or other Floors

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>EVB2502</td>
<td>Vertical Access Units</td>
<td>250 x 200 x 50mm</td>
</tr>
<tr>
<td>EVB3002</td>
<td>Vertical Access Units</td>
<td>300 x 200 x 50mm</td>
</tr>
</tbody>
</table>

**Access Outlet**

ESB 250 x 250/3/1 60-75 mm

- MK ESB 250 Access Outlets are made of very high quality materials to withstand heavy load and corrosion
- The trap frame and trap are made of flame retardant ABS and Polyamide ratchet for strength and durability
- The trap frame is designed for quick installation and leveling with patented screwless ratchet bar level adjustment system for self adjusting to any floor finish thickness
- Trap frame can be easily removed by pulling either one of the nylon bar to detach and remove the unit for servicing or installation of accessories to save installation and servicing time
- The carpet trim trap frame is designed to protect carpet from damages and give the floor area added aesthetic
- Trap lid is a screwless knob hinged design for quick mounting onto the frame requiring minimum maintenance
- Trap cover is reinforced with a 2.5 mm thick pre-galvanised steel plate to provide rigidity and added strength
- Cables are guided by cable retainers through generous cable outlet which open automatically and lock into position when cable are present
- Cables emerging from Service Boxes shall be protected against damage by means of Cable Exit Grommets
- Strong and durable trap lifting handle is made of similar colour material and has a special design for easy lifting, even with large fingers
- Access Outlets base unit is made of high quality pre-galvanized steel and high-pressure die-cast alloy pillars for supporting the trap frame and side blanks

\[1 \text{ Ton} = 981 \text{ Joules/cm} = 9806.7 \text{ Kilogram metre/sec} = 9.81 \text{ Kilonewton} = 1000 \text{ Kilogram force}\]
Cable Management System - Floor

- Brass terminal for earthing connection is provided
- Accessory mounting plates are available for power, data and telephone wiring devices
- Four side blanks are made with removable perforations to suit ducts installation
- Standard box size is 250 x 250 x 60-75mm in three compartments and has a recess of 8mm for carpet installation
- Standard box can accept Traks upto 225 x 25mm or 225 x 38mm
- Load bearing capacity

Access Outlets can withstand a maximum load of upto 2 ton force (metric)*. Maximum load measured at 12.23mm deflection

Features

- Trap Frame & Trap made of flame retardant ABS & Polyamide
- Patented Screwless Bar level adjustment for self-adjusting to any floor finish
- Screwless knob hinged design on the trap lid
- Trap cover is reinforced with 2.5mm thickness steel plate to withstand upto 2 tons of load on the trap
- Supported by base unit made of high quality Pre-galvanised steel and High-pressure die cast alloy pillars on all four corners
- Cable retainers to easily guide cables
- Cable Grommets with high quality, durable foam to prevent entry of dust when opened
- Removable Perforations to run traks of 25mm & 38mm
- Cable Exit Grommets can be closed when not in use

Access Outlet

Underfloor Access Outlets

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>ESB25031</td>
<td>250 x 250 x 60-75mm 1 Trap 3 compartments</td>
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<tr>
<td>ESB3003GIE</td>
<td>300 x 300 x 60-75mm 1 Trap 3 compartments (Metal Lid)</td>
</tr>
</tbody>
</table>

Raised floor Access Outlets

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>91506GRY</td>
<td>250 x 250 x 80mm 1 Trap 3 compartments</td>
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</tbody>
</table>

Note: Access Outlets are also called as Service Outlets/Service Box.

ESB 300 x 300/3/1 60-75 mm (GIE)

- Manufactured from high-pressure die cast material for strength & durability.
- The Trap lid is made of Galvanized Iron (GIE) for strength & durability.
- The Base Frame is cast in one piece without any joint to give the required strength, rigidity and corrosion proof.
- The Trap Frame can be easily opened by pulling the stainless steel hinged typed design on the trap lid. This helps to detach & remove the unit for servicing or installation of accessories.
- The Trap lid can be leveled to match with screed / floor height by adjusting the leveling screw on all the four corners.

Access Outlet should carry service plates for providing services i.e.: Power, Data & Telecom applications.

The system must accommodate for a maximum of 250mm width Duct for 300*300 Metal Lid Access Outlet. This is basically to run the mains Voltage & Extra Low Voltage cables.

The system has Positive Double earthing connections. Earth wire connectors are provided in all the boxes, and complies with the requirement of current IEE regulation.

The complete system must have excellent protection against rust.

Four side blanks are made with removable perforations to suit ducts installation.

Standards & Approvals - The system complies to the relevant specification & IEC 61084 standards.

ESB 300 x 300/3/1 60-75 mm (GIE)
Cable Management System - Floor

Access Outlet

Access Outlet-Trap Lid & Trap Frame

- Trap cover is 8 mm recessed for installation of carpet & tiles
- Trap cover reinforced with 2.5 mm thick pre-galvanised steel plate to provide rigidity & added strength
- Trim trap design to protect carpet from damages and give the floor area added aesthetics
- Can withstand load of up to 2 tons on the trap
- Made of flame retardant engineering plastic
- Epoxy coated to give enhanced protection on visible parts against chemical or saline corrosion
- Screwless knob hinged design with strong & durable trap lifting handle
- Cable grommet openings with durable and high quality foam to prevent ingress of dust when opened and can be closed when not in use.

- Patented screwless ratchet bar level adjustment system for self-adjusting to any floor finish thickness
- Screwless knob hinged design with strong & durable trap lifting handle

- Ratchet on base frame to hold the trap frame and self-adjust to any floor finish
- Data plate to mount computer jacks
- Power plates to mount BS conversion frames and accessories

- High-pressure die-cast alloy pillars to withstand 2 tons load.
- Positive double earthing connections
- 3 Compartments to run Mains voltage & ELV cables

- Side blanks with removable perforations to accept traks of 25 mm or 38 mm depth.
- Removable side blank

Cross Over

- Trap cover is 8 mm recessed for installation of carpet and tiles
- Trap frame is epoxy coated to give enhanced protection on visible parts against chemical or saline corrosion
- Stainless steel screw for extra protection

- Adjustable levelling screws on all 4 corners
- Epoxy coated to give enhanced protection on visible parts against chemical or saline corrosion
- ESB 250/3/1

- High Pressure die-cast pillars
- Positive double earthing connections
- Flyover unit to avoid criss-crossing of cables
- 4 Side blanks with removable perforations to accept traks of 25 mm or 38 mm depth
Cable Management System - Floor

**Underfloor Cross Over & Junction Box**

- MK Cross Overs and Junction boxes are made up of very high quality materials to withstand heavy load and corrosion.
- Trap cover for cross over box is made of a 2.5mm thick pre-galvanised steel plate to provide rigidity and added strength.
- Trap cover for Junction boxes are made of 2mm thick pre-galvanised steel plate.
- The trap cover have 8mm recessed for installation of carpet and tiles.
- Cross Overs base unit is made of high quality pre-galvanised steel and High-pressure die-cast alloy pillars for supporting the trap frame and side blanks.
- The flyover unit, trapframe and traps are epoxy coated to give enhanced protection on visible parts against chemical or saline corrosion.
- Trap cover screws are made from Stainless Steel for extra protection.
- Brass terminal for earthing connection is provided.
- Four side blanks are made with removable perforation to accept Traks of upto 38mm height (UMD or UMDX).

- The one piece base frame design ensures minimum openings to prevent concrete seepage into the box during casting of concrete or screeding.

**Load bearing capacity**

Cross Overs can withstand a minimum load of 3.6 Ton force (metric).

* Maximum load measured at 14.82mm deflection.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EJB2503</td>
<td>250 x 250 x 60-75mm</td>
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<td>EJB3003</td>
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<td>EJB3503</td>
<td>350 x 350 x 60-75mm</td>
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<td>EJB4003</td>
<td>400 x 400 x 60-75mm</td>
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<tr>
<td>JB150</td>
<td>150 x 150 x 60-75mm</td>
</tr>
<tr>
<td>JB250</td>
<td>250 x 250 x 60-75mm</td>
</tr>
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<td>JB300</td>
<td>300 x 300 x 60-75mm</td>
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<tr>
<td>JB350</td>
<td>350 x 350 x 60-75mm</td>
</tr>
<tr>
<td>JB400</td>
<td>400 x 400 x 60-75mm</td>
</tr>
</tbody>
</table>

**High Recessed Access Outlet Box & Crossover Box**

High Recessed Access Outlet Box and Crossover Box can accommodate hard flooring like marbles, granites and stone. These floor boxes come with a recess of 20mm in cover. So you can directly fit in the stone slab in them. This reduces the installation time tremendously.

**Key Features:**

- Superior load bearing performance of upto 2.5 tons on the trap lid, ensures that the product can withstand heavy objects like cabinets, trolleys, cherry pickers and even automobiles in a showroom.
- These floor boxes are adaptable to any floor finish with height adjusting stainless steel leveling screws. There is a provision of 20mm from 90mm minimum to 110mm maximum for plug top clearance.
- Gaskets are provided on the trap frame edges of these floor boxes to prevent any concrete seepage or water from entering in the box.
- These floor boxes are designed for use with stone floors. The lid recess comes with 20mm space for accommodating any hard flooring.
- Double grommet openings with cushions for connecting the output cables to the wiring accessories.

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSB250GR</td>
<td>Access outlet box 250x250x90-110mm with 20mm Recess</td>
</tr>
<tr>
<td>EXSB350GR</td>
<td>Access outlet box 350x350x90-110mm with 20mm Recess</td>
</tr>
<tr>
<td>EXJB250GR</td>
<td>Cross Over 250x250x90-110mm with 20mm Recess</td>
</tr>
<tr>
<td>EXSB350GR</td>
<td>Cross Over 350x350x90-110mm with 20mm Recess</td>
</tr>
</tbody>
</table>
Cable Management System - Floor

- Screed depth – It is always advisable to have a minimum floor finish of 110mm during planning itself to avoid any hassles, since this will comfortably take care of the 35mm wiring space, plug top clearance and also the flooring depth.

**Application Areas:**
- Retail malls
- Parking Areas
- Bungalows

Flush-fitting Access Outlet Box & Crossover Box

Access Outlet Box and Crossover Boxes are uniquely designed with easy to install features by means of a stylish flushed top cover. They enhance the visual appeal of the commercial space with excellent hairline finish. Made of stainless steel, the boxes are robust, seepage proof and can function smoothly forever.

**Key Features:**
- Flushed design; no flooring recess required
- Crossover boxes are designed with screwless lid, with only a 2.5mm dia circular opening
- Seepage proof design with gaskets at the edges of the trap frame
- Smart looking stainless steel boxes with hairline finish
- 2.1 ton load bearing capacity
- Unique cable exit grommets on access outlets

<table>
<thead>
<tr>
<th>List No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXSB300SS</td>
<td>Access box 300x300x70-85mm in SS hairline finish Brushed steel</td>
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<tr>
<td>EJB300SS</td>
<td>Crossover box 300x300x70-85mm in SS hairline finish Brushed steel</td>
</tr>
<tr>
<td>EJB350SS</td>
<td>Crossover box 350x350x70-85mm in SS hairline finish Brushed steel</td>
</tr>
</tbody>
</table>

**Application Areas:**
- Airports
- Retail malls
- Hospitals
- Corporates (IT/ITES)

Popup Box

- Copper and aluminium-alloy material
- Super slim base box design
- No vibration on socket modules when lid popped up to ensure stability and enhance safety and lifespan
- Modular Design with provision for 6 modules – 2 6amp sockets/1 switch/1 RJ45 is the ideal combo
- Ideal for application in table tops and floor

**Dimensions :** 125mm*125mm*60mm depth
- Colour : Brushed Steel and Gold finish trap cover
- Press button opening of the lid
- The lid can be closed to the point of the plug top, when in use
- Positive earthing terminals will be provided at the back box

<table>
<thead>
<tr>
<th>List No.</th>
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</thead>
<tbody>
<tr>
<td>EPO2BS</td>
<td>Popup box with brushed steel finish</td>
</tr>
<tr>
<td>EPO2GLD</td>
<td>Popup box with gold finish</td>
</tr>
</tbody>
</table>
Cable Management System - Floor

Cable Link Plus Screed System

- Tested to pr EN50085-2-2 to accept 5000N load
- The system incorporates numerous design features to ensure a fast and simple installation
- Designed to support Cat 6 structured cabling systems
- Suitable for screeded depth from 53mm to 110mm
- Floor boxes are IP2X rated in accordance with BS EN50085-1
- Choice of 1, 2, 3 or 4 compartment floor boxes
- Self Closing lid in accordance with draft 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 17th Edition Wiring Regulations
- 5 year guarantee

List No. Description
CUB265-3GRY Access outlet 265 x 265 x 53 - 110mm
3 compartment
Cable Management System - Floor

Onix Plus Screed System

Onix Floorbox with Snorkel Cord Outlet Lid

**SNORKEL CORD OUTLET**
- Robust design
- Commando?

**ATTRACTIVE, AESTHETIC LIDS**
- Stylishly designed

**BRUSHED STAINLESS STEEL PLATE**
- Is it stainless plus rusting?

**STAGGERED PLATE**
- Ensure strain relief for moulded plug tops

**COMPARTMENT SEGREGATION**

**CONVERSION KIT AVAILABLE**
- Converts junction box to service outlet box

**OUTLET BOX**
- Screed depth: 80 - 110mm
- Flat side base design ensures a stronger screed solution and faster taping
- Optional “height adjusting kit” for greater screed depths to support Cat6 compliance

**IP44 WET WASH**
- Unique cord outlet design allows floor to be washed even when Floorbox in use

**ROBUST LOAD PLATE**
- High load bearing performance
- Ideal for areas of heavy foot traffic

**“SQUARE” BOX OPTION**
- For 90° rotation of floorbox for system flexibility

**BASE FIXING FEET**
- For a ‘fast-fit’ installation

**DESIGNED FOR USE WITH THE CABLELINK PLUS SCREED DUCTING SYSTEM**

- 110 mm 3 compartments

---

**List No.** | **Description**
---|---
NXLSB 265-3 | Access outlet with snorkel lid 15mm recess 265 x 265 x 80 - 110 mm 3 compartments with base and accessory plates

- Stylish and subtle
- Robust
- IP44 wet wash capable - even when in use
- Designed to support Cat 6 structured cabling systems
- High load bearing - 10000N
- Lid options include, snorkel, cord caps and plain
- Selection of lid recess depth available, allowing for various floor depths
- Accommodates a broad range of power and data accessories.
- Quality, reliability and safety come as standard
## Cable Management System - Floor

### Underfloor Product Matrix

<table>
<thead>
<tr>
<th>M-Traks</th>
<th>Jointing Sleeves</th>
<th>Cross Overs / Junction Box</th>
<th>Access Outlets</th>
<th>Vertical Access Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>UMD5016</td>
<td>UMS50</td>
<td>JB150</td>
<td>ESB25031 / CUB265-3 GRY</td>
<td>EVB2502</td>
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<td>UMD7516</td>
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<td>JB150</td>
<td>ESB25031 / CUB265-3 GRY</td>
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<td>UMSX300</td>
<td>EJB4003 / JB400</td>
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</tr>
</tbody>
</table>

### Planning

In designing the Underfloor Cable Management Systems, it is essential to take into account the following:

- Introduction of traks begin at the Distribution board of the Floor concerned
- Determine the services, capacity of Traks and the Access Outlets / Cross Overs to be laid
- Traks should be laid onto level of structural slab and it requires minimum 25mm screed to cover
- In long runs of Traks, access should be provided by using Cross Overs as drawn-in Outlets
- Distance between two Cross Overs must not exceed 6 meters
- Traks are to be incorporated along walkaways to provide greater flexibility for future service requirements

### Step by Step Installation Guide

**Cross Over Installation**
Standard Package will include Throw-away lid.

1. **Determine Floor Box location and flyover direction.**
2. **Cut off the pre-punched knockouts at the side blank plate.**
3. **Align the trap frame bracket with the side blank plate.**
4. **Fasten the trap frame, side blanks & ensure all the ductings and junction boxes are secured.**
5. **After screeding is cured, use a hammer & gently remove the disposable lid.**
6. **Remove the frame and trap by loosening the four corner.**
7. **Adjust the leveling screws to the screeded or desired level. Secure both frame & trap simultaneously.**
8. **Finished installation without the carpet.**

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### Cable Management System - Floor

#### Step by Step Installation Guide

**Access Outlet Installation**

Standard Package will include Throw-away lid.

1. **Service Box Set.** Part 1 installation, follow steps 1 - 5
2. Ensure that the base box is free from cement or dirt. Now install accessory plates using self-tapping screws.
3. Ensure that the plates are secured properly to that trap. Depress the ratchet bars on both sides & gently push down.
4. A finished floor with carpet
5. To convert the trap suitable for tile application, cut the tile according to the size of the trap.
6. If tile is thicker than the recess, grinding is necessary. Remove the throw-away lid and install the frame & trap.

**STANDARDS AND APPROVALS**

The system complies to the relevant specification, i.e., BS 4678, SS 249 and IEC 61084. In addition, MK floor outlet boxes comply to a stringent load test requirement.

**TECHNICAL SPECIFICATION**

- **Material:** ABS, Polyamide and Galvanised Steel
- **Strength:** The floor outlet boxes are capable of resisting minor accidental load only when rigidly supported under the outer rim of the cover frame. They are not intended for use in areas subject to access floor design loads. Specific details are available on request.
- **Fire:** The outer casing of the floor outlet box is manufactured from metal and is non-combustible.
- **Chemical Resistance:** Non-corrosive
- **Water Absorption:** The floor outlet boxes are for use in situations where the cleaning method does not result in the formation of pools of liquid or soaking of the floor surface.
- **Degree of Protection:** Enclosure classification IP 20, when installed in accordance with the instructions set out in the installation guide.

**INSTALLATION**

The Floor Outlet Boxes are designed to be located within the depth of the access floor. Whilst the number and location of the boxes will depend on the user’s requirements, as general guide, the minimum recommended distribution is one floor box for every 10 m box per 4 m being the likely maximum. These figures are approximately equivalent to boxes sited on a two dimensional grid of 3000 mm and 2000 mm respectively.

Normally it is desirable not to have an outlet further than 1600 mm from the equipment being served. However this can be extended in case where the outer box is used to feed desk or screen mounted power supply with integral outlets.

All floor outlet boxes must be completely fitted out with made up modules prior to use. If the user’s requirements are precisely known, this will not present any problem. However, floor boxes are interchangeable and can be easily and quickly relocated to service particular items of equipment. This is done by unplugging a box and then relocating box and floor panel completely.

<table>
<thead>
<tr>
<th>Ambient temperature range</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handling &amp; storage</td>
<td>-5°C</td>
<td>60°C</td>
</tr>
<tr>
<td>During installation</td>
<td>-5°C</td>
<td>60°C</td>
</tr>
<tr>
<td>Operating</td>
<td>-5°C</td>
<td>40°C</td>
</tr>
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</table>

(Average not to exceed 35°C in any 24 hour period)
**Cable Carrying Capacity Chart**

### FDS Traks Cable Capacity Guide Chart

#### Solid Conductors

<table>
<thead>
<tr>
<th>Cross Section area (sq.mm) of Cables</th>
<th>Number of Cables</th>
<th>Compartment Factor</th>
<th>Cable Factor</th>
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<tbody>
<tr>
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#### Stranded Conductors

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<th>Cable Factor</th>
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### Wall Trunking Cable Capacity Guide Chart

#### Stranded Conductors

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### Prestige 3D Cable carrying capacity chart

<table>
<thead>
<tr>
<th>Cross section area (sq.mm) of cables</th>
<th>Cable factor</th>
<th>No. of cables in compartment 1</th>
<th>No. of cables in compartment 2</th>
<th>No. of cables in compartment 3</th>
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<tbody>
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### Mini Trunking Cable carrying capacity chart

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</table>

The tables above indicate the cable carrying capacity of Cable Management Systems, based on a 35% utilization factor as recommended by IEE Regulations using PVC-insulated multi-strand cables to BS 6004 - 1969.
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Tel: +91-44-66085600 E-mail: eccchennai@honeywell.com Website: www.honeywell.com

Honeywell Automation India Limited
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Tel: +91-20-66039400 Fax: +91-20-66039800 E-mail: eccpune@honeywell.com

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