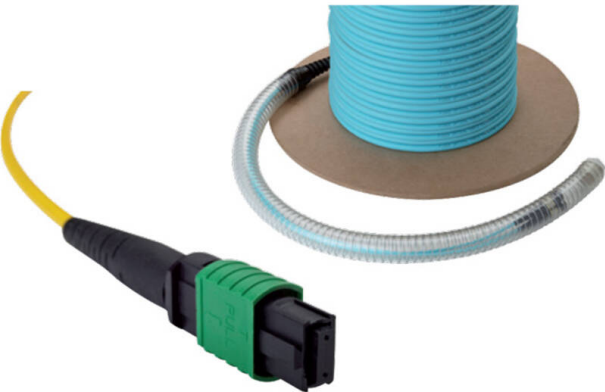


# Excel Enbeam OS2 12 Core MTP Trunk Cable 25 m



Item Code: 208-OS2-12C-MTP-025



- ✕ US Conec MTP Elite connectors
- ✕ Very Low Loss
- ✕ Standard Method B Pinned (Male) Connectors
- ✕ Single mode Angled Connectors
- ✕ 100% Optically Tested
- ✕ Euroclass Cca-s1b-d0-a1
- ✕ 25 Year system warranty

## Product Overview

The Enbeam MTP Elite® Trunk Cables offer pre-terminated optical fibre that is factory tested in a range of core counts. The trunk cable is manufactured with multiple, 12 core MTP Elite® connectors to give 12, 24, 36, 48, 72, 96 or 144 core cables.

The US Conec MTP Elite® connector has been chosen as the MPO (Multiple-Fibre Push-On/Pull-off) for superior performance with low loss properties. The MTP Elite® is the superior connector from the superior MPO manufacturer.

Each cable is tested in the factory and is supplied with the test certificate. Each end of the cable has the MTP Elite® connector(s) protected with a flexible hose.

## Product Specifications

| Feature                        | Values      |
|--------------------------------|-------------|
| Fibre type                     | Single mode |
| Category                       | OS2         |
| Number of Cores                | 12          |
| Cable type                     | Breakout    |
| Length                         | 25 m        |
| Type of connector connection 1 | MT/MPO      |
| Type of connector connection 2 | MT/MPO      |

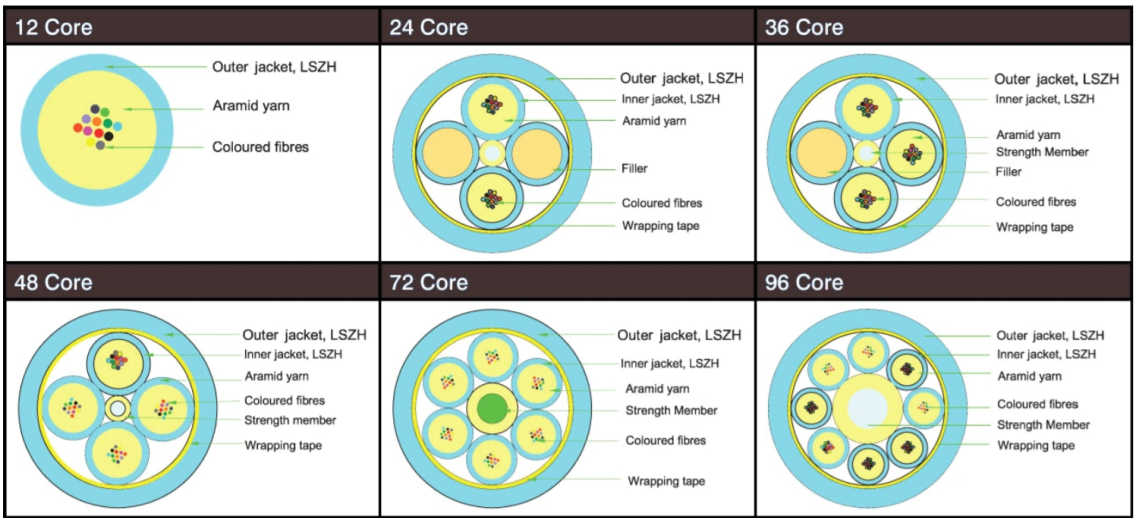
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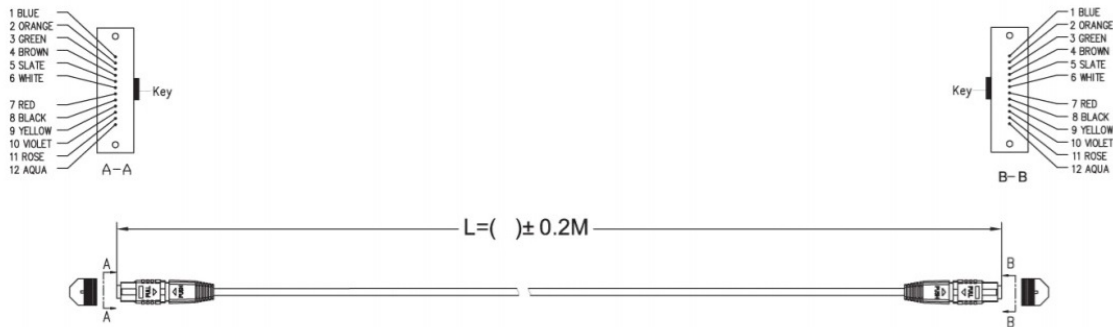
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|  |        |
|--|--------|
| Outer sheath colour                        | Yellow |
| Flame retardant according to IEC 60332-1-2 | yes    |
| Low smoke (acc. IEC 61034-2)               | yes    |

## Cross-section diagram

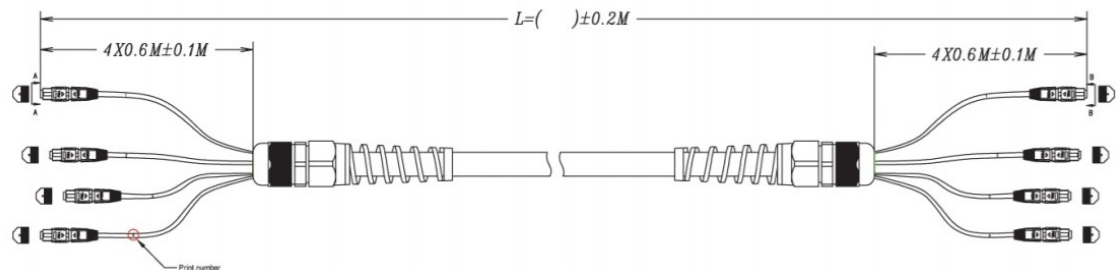


## Product drawing (12-Core MTP Trunk)



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Product drawing (48-Core MTP Trunk)



Cable specifications

| Fibres                   | 12  | 24  | 36  | 48  | 72   | 96   |
|--------------------------|-----|-----|-----|-----|------|------|
| MTP                      | 1   | 2   | 3   | 4   | 6    | 8    |
| OD (mm)                  | 3   | 9   | 9   | 9   | 11.2 | 13.5 |
| Max. Pulling Tension (N) | 80  | 160 | 160 | 200 | 300  | 300  |
| Cable Weight (kg/km)     | 7.8 | 72  | 78  | 79  | 126  | 178  |
| Min. Bend Radius (mm)    | 90  | 270 | 270 | 270 | 336  | 405  |

Cable specifications (continued)

| Features                    | OS2           | OM3           | OM4            |
|-----------------------------|---------------|---------------|----------------|
| Cable colour                | Yellow        | Aqua          | Heather Violet |
| Temperature range           | -20°C to 70°C | -20°C to 70°C | -20°C to 70°C  |
| Strength Members            | Aramid Yarn   | Aramid Yarn   | Aramid Yarn    |
| Connector Material          | Composite     | Composite     | Composite      |
| Max. Insertion Loss (dB)    | 0.3           | 0.3           | 0.3            |
| Typical Insertion Loss (dB) | 0.15          | 0.15          | 0.15           |

## Standards

| Applicable standard           | Detail  |
|-------------------------------|---|
| BS EN 60332-1-2:2004+A11:2016 | Tests on electric and optical fibre cables under fire conditions - Test for vertical flame propagation for a single insulated wire or cable. Procedure for 1 kW pre-mixed flame         |
| IEC 60793-1-1:2022            | Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance   |
| IEC 60793-2:2015              | Optical fibres - Part 2: Product specifications - General   |
| IEC 60793-2-10:2017           | Sectional specification for A1 multimode fibres   |
| IEC 60793-1-20:2014           | Optical fibres - Part 1-20: Measurement methods and test procedures - Fibre geometry  |
| IEC 60793-1-21:2001           | Optical fibres - Part 1-21: Measurement methods and test procedures - Coating geometry  |
| IEC 60793-1-22:2001           | Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement  |
| IEC 60793-1-30:2010           | Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test  |
| IEC 60793-1-31:2010           | Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile Strength  |
| ITU-T G.652:2016              | Characteristics of a single-mode optical fibre and cable  |
| ITU-T G.657:2016              | Characteristics of a bending-loss insensitive single-mode optical fibre and cable   |
| EN 50173-1:2018               | Information technology. Generic cabling systems - General requirements  |
| EN 50173-2:2007 + A1:2010     | Information technology. Generic cabling systems - Office premises   |
| IEC 61754-1:2013              | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance  |
| IEC 61754-2:1996              | Fibre optic connector interfaces - Part 2: Type BFOC/2,5 connector family   |
| IEC 61754-4:2013              | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family  |
| IEC 61754-4-100:2015          | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces |
| IEC 61754-4-100:2015          | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part  |

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|  |   |
|--|---|
|  | 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces  |
| ISO/IEC 11801-1:2017                       | Information technology - Generic cabling for customer premises: Part 1 General Requirements   |
| RoHS-II/-III (2011/65/EU & 2015/863): 2023 | Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III). |
| WFD: 2023                                  | Compliant to Waste Framework Directive  |
| SCIP: 2023                                 | Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)   |
| POPs (EU) No 2019/1021                     | EU Regulation for the restriction of Persistent Organic Pollutants.   |

## Part Number Table

| Part Number         | Description                                   |
|---------------------|---|
| 208-OS2-12C-MTP-025 | Excel Enbeam OS2 12 Core MTP Trunk Cable 25 m |
| 208-OS2-12C-MTP-075 | Enbeam OS2 12 Core MTP Trunk Cable - 75m      |
| 208-OS2-12C-MTP-100 | Enbeam OS2 12 Core MTP Trunk Cable - 100m     |

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