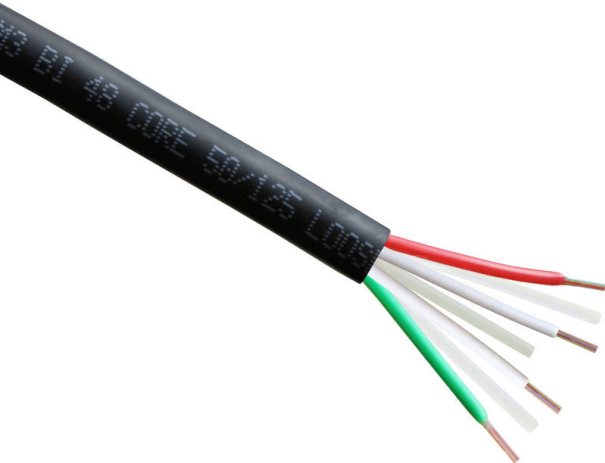


Enbeam OM3 Multimode 50/125 48 Core Fibre Optic Cable Loose Tube Fca - Black

Item Code: 200-248



- ✕ Duct Grade
- ✕ Sequentially Metre Marked
- ✕ 1500/500MHz.km Bandwidth
- ✕ Cut to length service
- ✕ Euroclass Fca

Product Overview

Excel OM3 50/125µm loose tube optical fibre cables have been designed specifically for internal and external applications. These compact, lightweight cables are extremely flexible and are quick and easy to install.

The cables are constructed around a gel filled (non-dripping and silicon free) tube containing up to 24 colour coded 250µm primary coated fibres. This tube is covered with swellable (for the longitudinal water tightness) yarns as strength members.

The print legend on the cable now includes information regarding the DOP number, Test and Classification of the cable for traceability.

Product Specifications

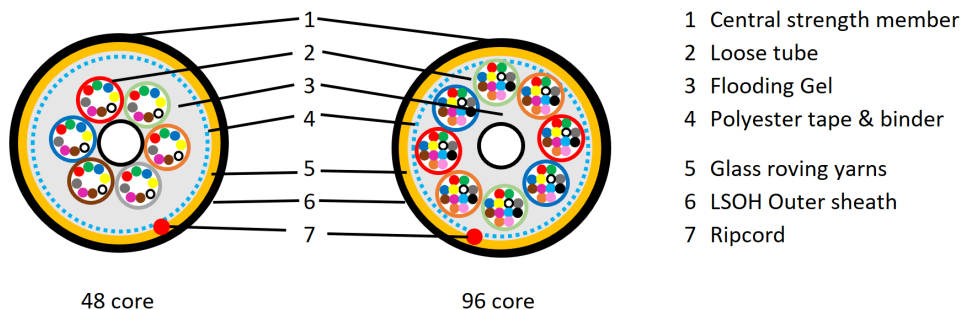
| Feature | Values |
|--|-------------------|
| Number of Cores | 48 |
| Type of tube | Loose tube |
| Fibre type | Multi mode 50/125 |
| Category | OM3 |
| Rodent resistant | no |
| Outer sheath colour | Black |
| Flame retardant according to IEC 60332-1-2 | yes |
| Reaction-to-fire class according to EN 13501-6 | Fca |

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Cross-section diagram



Cable specifications

| Features | Values | 48 Core | 96 Core |
|--|-----------------|------------------|------------------|
| Fibre Colour Code Standard | TIA 598 | | |
| Tensile Strength (during installation) | 4000N | | |
| Tensile strength (installed) | 2000N | | |
| Torsion | $\pm 180^\circ$ | | |
| Tube inner diameter | | 1.5mm | 1.7mm |
| Tube outer diameter | | 2.1mm | 2.3mm |
| Central strength member | | 2.1 ± 0.1 mm | 2.5 ± 0.1 mm |
| Minimum bend radius (long term) | 20 x Diameter | | |
| Minimum bend radius (short term) | 10 x Diameter | | |
| Moisture barrier | Flooding gel | | |
| Number of ripcords | 2 | | |
| Outer sheath diameter | 2mm (nominal) | | |
| Strength members | E-Glass Rovings | | |
| Temperature range (installed) | -30°C to +70°C | | |
| Temperature range (operation) | -30°C to +70°C | | |
| Temperature range (storage) | -30°C to +70°C | | |

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Cable weight

135.0 ± 15 kg/km

170 ± 20 kg/km

Fibre specifications

| Features | Values | @850nm | @1300nm |
|----------------------------|-------------|-------------|------------|
| Core diameter | 50±2.5um | | |
| Cladding diameter | 125.0±1.0um | | |
| Primary Coating diameter | 250±15um | | |
| Max. attenuation | | 3.0 dB/km | 1.0 dB/km |
| Refractive Index | | 1.482 | 1.477 |
| Numerical aperture | 0.200±0.015 | | |
| Overfilled Modal Bandwidth | | 1500 MHz/km | 500 MHz.km |

Standards

| Applicable standard | Subject |
|--------------------------|--|
| IEC 60794-2-20:2013 | Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables |
| IEC 60332-1-2:2004 | 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 60754-2:2011 | Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity |
| IEC 61034-2:2005+A1:2013 | Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements |
| IEC 60793-1-1:2022 | Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance |
| 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 |

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| | |
|--|---|
| 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 60793-1-41:2010 | Optical fibres - Part 1-41: Measurement methods and test procedures - Bandwidth |
| ITU G.651.1 | Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network |
| EN 50173-1:2018 | Information technology. Generic cabling systems - General requirements |
| EN 50575: 2014 + A1: 2016 | Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements |
| EN 50399:2011+A1:2016 | Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results |
| ISO/IEC 11801-1:2017 | Information technology - Generic cabling for customer premises: Part 1 General Requirements |
| ANSI/TIA 568-3.D | Optical Fiber Cabling and Components Standard |
| ANSI/TIA/EIA 598-D | Optical Fibre Cable Colour Coding |
| 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 |
|-------------|--|
| 200-248 | Enbeam OM3 Multimode 50/125 48 Core Fibre Optic Cable Loose Tube Fca - Black |

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at sales@excel-networking.com



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