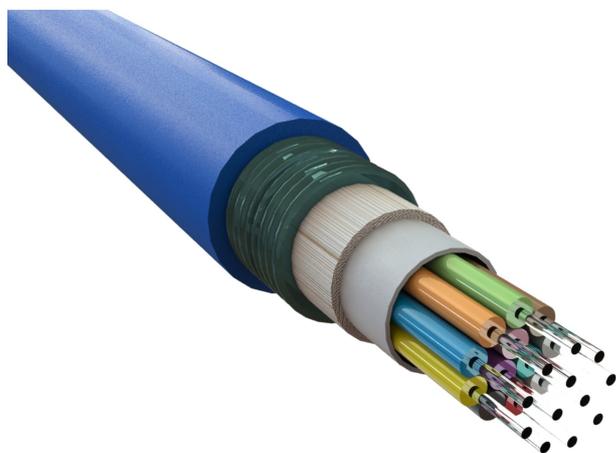


Excel Enbeam OM2 Armoured CST Fibre Optic Cable Loose Tube 24 Core Eca Blue

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excel
without compromise.



✕ Duct grade - rodent resistant

✕ Sequentially metre marked

✕ UV Resistant

✕ Cut to length service

✕ 25 Year system warranty

✕ Euroclass Eca

Product Overview

Excel corrugated steel tape (CST) OM2 50/125µm armoured loose tube optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection.

These cables are constructed from standard single loose tube cables which are then packed into a flexible but strong fibreglass water blocking strength member. These compact, lightweight cables are extremely rugged, provide rodent resistance and are quick and easy to install.

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

The CST cable has also been designed for direct burial, to ensure the correct installation a sand back fill must be used at all times.

Product Specifications

| Feature | Values |
|---------------------------|---------------------------------|
| Number of Cores | 24 |
| Type of tube | Loose tube |
| Number of fibres per tube | 24 |
| Fibre type | Multi mode 50/125 |
| Category | OM2 |
| Rodent resistant | yes |
| Outer sheath material | Copolymer, thermoplastic (LS0H) |

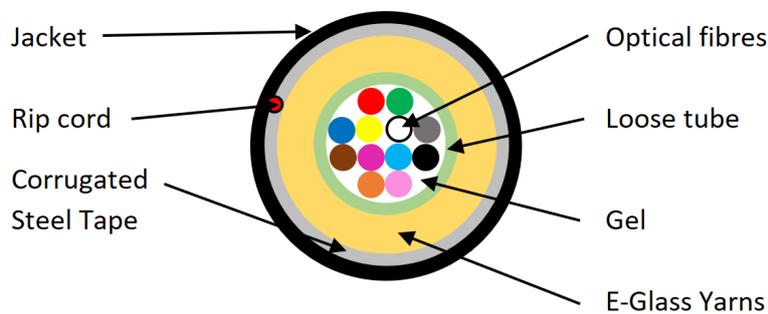
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| | |
|------------------------------------------------|--------|
| Outer sheath colour | Blue |
| Flame retardant according to IEC 60332-1-2 | yes |
| Reaction-to-fire class according to EN 13501-6 | Eca |
| Outer diameter approx. | 9.2 mm |

Cross-section diagram



Colour coding (as per TIA-598-C)



For fibre core counts above 12 the colour sequence is repeated with the addition of a mark every 70mm for cores 13-24 and two marks for 25-36 and so on.

Cable specifications

| Features | Values | |
|-------------------------|--------------|----------------|
| Tensile Strength | 2000 N | |
| Crush Resistance | 3000 N/m | |
| Torsion | ± 180 ° | |
| Temperature performance | Installation | -30°C to +70°C |
| | Operation | -30°C to +70°C |

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| | | |
|----------------------------|------------|--------------------|
| | Storage | -30°C to +70°C |
| Loose tubes | Number | 1 |
| | Material | PBT |
| Loose Tube ID/OD | 4-16 Cores | 2.0/2.8 ± 0.1 mm |
| | 24 Cores | 2.6/3.5 ± 0.1 mm |
| Peripheral Strength Member | | Glass Yam + WS Yam |
| Armoring | Thickness | 0.150 mm |
| | Material | ECCS Tape |
| Outer Sheath | Thickness | 1.8 mm (Nominal) |
| | Material | LSZH |
| Ripcord | Number | 1 |
| | Material | Polyester |
| Overall Cable Diameter | 4-16 Cores | 8.4 ± 0.5 mm |
| | 24 Cores | 9.2 ± 0.5 mm |
| Cable Weight | 4-16 Cores | 100.0 ± 10 kg/km |
| | 24 Cores | 115 ± 10 kg/km |
| Bending Radius | Short term | 20 x Diameter |
| | Long term | 10 x Diameter |

Fibre specifications

| Features | | OM1 | OM2 | OM3 | OM4 |
|-----------------------------------|----------|---------------|--------------|---------------|---------------|
| Attenuation | @850 nm | ≤ 3.0 dB/km | ≤ 2.7 dB/km | ≤ 2.7 dB/km | ≤ 2.7 dB/km |
| | @1300 nm | ≤ 1.0 dB/km | ≤ 0.8 dB/km | ≤ 0.8 dB/km | ≤ 0.8 dB/km |
| Bandwidth | @850 nm | ≥ 200 MHz.km | ≥ 500 MHz.km | ≥ 1500 MHz.km | ≥ 3500 MHz.km |
| | @1300 nm | ≥ 600 MHz.km | ≥ 550 MHz.km | ≥ 500 MHz.km | ≥ 500 MHz.km |
| Core Diameter | | 62.5 ± 2.5 µm | 50 ± 2.5 µm | 50 ± 2.5 µm | 50 ± 2.5 µm |
| Core Cladding Concentricity Error | | ≤ 1 µm | ≤ 1 µm | ≤ 1 µm | ≤ 1 µm |
| Cladding Diameter | | 125 ± 1 µm | 125 ± 1 µm | 125 ± 1 µm | 125 ± 1 µm |

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| | | | | |
|-----------------------------|-------------|-------------|-------------|-------------|
| Cladding Non-circularity | ≤ 1 % | ≤ 1 % | ≤ 1 % | ≤ 1 % |
| Coating Diameter (Coloured) | 250 ± 15 µm |

Standards

| Applicable Standard | Subject |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
| 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 |

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| | |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | 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 |
| IEC 60794-1-2/F5 | Generic specification – Optical fibre cable test procedures – Bending test (Method F5) |
| IEC 60794-1-205 | Optical fibre cables – Part 1-205: Generic specification – Basic optical cable test procedures – Water penetration test |
| Directive 2008/98/EC (WFD) | Waste Framework Directive — compliant. Implemented in the UK through the Waste (England and Wales) Regulations 2011 (SI 2011 No. 988). |
| ECHA SCIP Database | Compliant; product does not contain SVHCs (Substances of Very High Concern) as defined under REACH Article 33(1). Submission obligations met under EU REACH and UK REACH. |
| Regulation (EU) 2019/1021 (POPs) | EU Regulation on Persistent Organic Pollutants — compliant. For Great Britain, compliance is aligned with the Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020 (SI 2020 No. 1355). |
| 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). |
| Directive (EU) 2015/863 (RoHS III) | Amending Directive 2011/65/EU to add four phthalates (DEHP, BBP, DBP, DIBP) to Annex II — compliant. |
| UK SI 2012 No. 3032 | The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (UK RoHS) — compliant for Great Britain. Retained EU law, as amended by the Product Safety and Metrology (Amendment etc.) (EU Exit) Regulations 2019. |
| 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. |

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Part Number Table

| Part Number | Description |
|-------------|-----------------------------------------------------------------------------|
| 205-275 | Excel Enbeam OM2 Armoured CST Fibre Optic Cable Loose Tube 4 Core Eca Blue |
| 205-276 | Excel Enbeam OM2 Armoured CST Fibre Optic Cable Loose Tube 8 Core Eca Blue |
| 205-277 | Excel Enbeam OM2 Armoured CST Fibre Optic Cable Loose Tube 12 Core Eca Blue |
| 205-279 | Excel Enbeam OM2 Armoured CST Fibre Optic Cable Loose Tube 24 Core Eca Blue |

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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