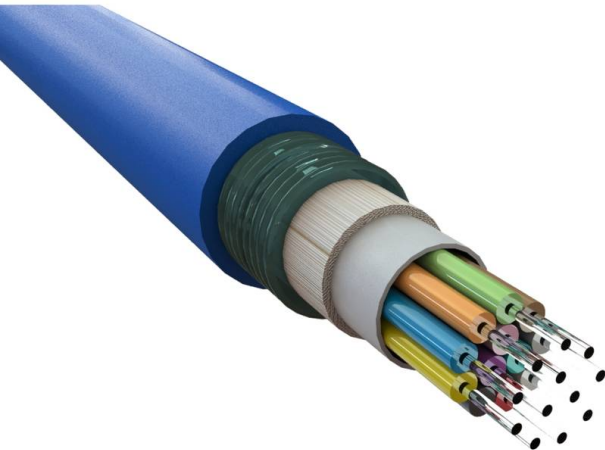


Excel Enbeam OS2 Singlemode Armoured CST Fibre
Optic Cable Loose Tube 4 Core 9/125 LSZH Eca
Blu...
Item Code: 205-305



- Water Resistant & UV Resistant
- Duct grade - Rodent resistant
- Sequentially metre marked
- Cut to length service
- Euroclass Eca
- 25 Year system warranty

Product Overview

Enbeam OS2 Singlemode Fibre Optic Cable Loose Tube 4 Core 9/125 LSZH Eca Blue, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.
Excel corrugated steel tape (CST) OS2 9/125µm armoured loose tube optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection.

The singlemode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility. They are extremely rugged, provide rodent resistance and are quick and easy to install.

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

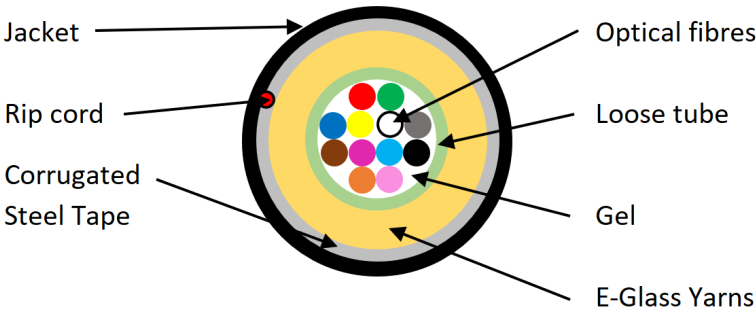
| Feature | Values |
|---------------------------|---------------------------------|
| Number of Cores | 4 |
| Type of tube | Loose tube |
| Number of fibres per tube | 4 |
| Fibre type | Single mode 9/125 |
| Category | OS2 |
| Rodent resistant | yes |
| Outer sheath material | Copolymer, thermoplastic (LS0H) |
| Outer sheath colour | Blue |

Excel Enbeam OS2 Singlemode Armoured CST Fibre
Optic Cable Loose Tube 4 Core 9/125 LSZH Eca
Blu...
Item Code: 205-305



| | |
|------------------------------------------------|--------|
| Flame retardant according to IEC 60332-1-2 | yes |
| Reaction-to-fire class according to EN 13501-6 | Eca |
| Outer diameter approx. | 8.4 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 |
| | Storage | -30°C to +70°C |

Excel Enbeam OS2 Singlemode Armoured CST Fibre
Optic Cable Loose Tube 4 Core 9/125 LSZH Eca
Blu...



Item Code: 205-305

| | | |
|----------------------------|------------|----------------------|
| 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 Yarn + WS Yarn |
| 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 | | OS2 |
| Attenuation | @1310 nm | ≤ 0.36 dB/km |
| | @1550 nm | ≤ 0.23 dB/km |
| Chromatic Dispersion | 1285 - 1330 nm | ≤ 3.5 ps/nm.km |
| | 1550 nm | ≤ 18 ps/nm.km |
| Zero Dispersion Wavelength | | 1300 - 1324 nm |
| Zero Dispersion Slope | | ≤ 0.092 ps/nm ² .km |
| Polarisation Mode Dispersion | | ≤ 0.2 ps/√km |
| Cut-off Wavelength | | ≤ 1260 nm |
| Mode Field Diameter | @1310 nm | 9.2 ± 0.4 μm |
| Core Cladding Concentricity Error | | ≤ 0.8 μm |
| Cladding Diameter | | 125 ± 1 μm |

Excel Enbeam OS2 Singlemode Armoured CST Fibre
Optic Cable Loose Tube 4 Core 9/125 LSZH Eca
Blu...

Item Code: 205-305



| | |
|-------------------------------|-------------|
| Cladding Non-circularity | ≤ 1 % |
| Coating Diameter (Uncoloured) | 245 ± 10 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 60754-2:2014+A1:2020 | Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity |
| IEC 61034-2:2005+A2:2020 | 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 60793-1-20:2014 | 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 |
| ITU G.652.D | Characteristics of a single-mode optical fibre and cable |
| 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 |

Excel Enbeam OS2 Singlemode Armoured CST Fibre
Optic Cable Loose Tube 4 Core 9/125 LSZH Eca
Blu...
Item Code: 205-305



| | |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 |
|-------------|---------------------------------------------------------------------------------------------------|
| 205-305 | Excel Enbeam OS2 Singlemode Armoured CST Fibre Optic Cable Loose Tube 4 Core 9/125 LSZH Eca Blue |
| 205-306 | Excel Enbeam OS2 Singlemode Armoured CST Fibre Optic Cable Loose Tube 8 Core 9/125 LSZH Eca Blue |
| 205-307 | Excel Enbeam OS2 Singlemode Armoured CST Fibre Optic Cable Loose Tube 12 Core 9/125 LSZH Eca Blue |
| 205-308 | Excel Enbeam OS2 Singlemode Armoured CST Fibre Optic Cable Loose Tube 16 Core 9/125 LSZH Eca Blue |
| 205-309 | Excel Enbeam OS2 Singlemode Armoured CST Fibre Optic Cable Loose Tube 24 Core 9/125 LSZH 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



E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.