Excel Enbeam OM4 Multimode Armoured CST Fibre Optic Cable Loose Tube 24 Core 50/125 LSOH Cca Bl...

Part Code: 274-224

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CIBSE TM65 Embodied Carbon: 0.707 kg CO2e



Main Features

- Water resistant & UV resistant
- Sequentially metre marked
- Euroclass Cca-s1a-d0-a1
- Duct grade rodent resistant
- Cut to length service
- 25 Year system warranty

Product Overview

Enbeam OM4 Multimode CST Armoured Fibre Optic Cable Loose Tube 24 Core 50/125 LSOH Cca Blue, part of a huge range of OM4 fibre optic cables fully stocked at Mayflex.
Excel corrugated steel tape (CST) OM4 50/125 µm armoured loose tube optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection.

These compact, lightweight cables are extremely rugged, provide rodent resistance and are quick and easy to install.

The cables are constructed around a silica gel filled tube(s) containing up to 24 colour coded 250µm buffered fibres, which is covered with E glass strength members.

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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.

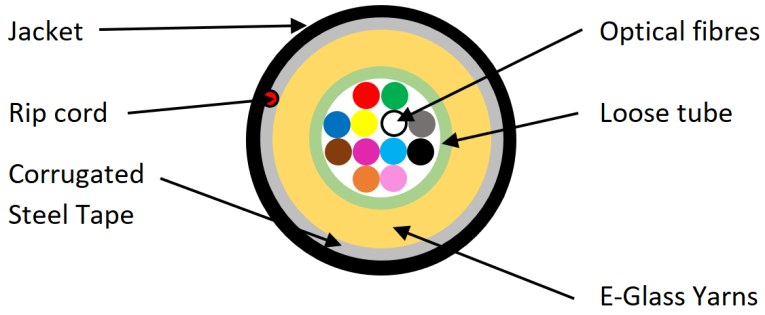
Product Specifications

Feature	Values
Number of Cores	**24**
Type of tube	**Loose tube**
Number of fibres per tube	**24**
Fibre type	**Multi mode 50/125**
Category	**OM4**
Rodent resistant	**yes**
Outer sheath colour	**Blue**
Flame retardant according to IEC 60332-1-2	**yes**
Reaction-to-fire class according to EN 13501-6	**Cca**
Smoke development class according to EN 13501-6	**s1a**
Euro class flaming droplets/particles according to EN 13501-6	**d0**
Euro class acidity according to EN 13501-6	**a1**
Outer diameter approx.	**8.5 mm**

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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 ^{0}**
Temperature performance	**Installation**	**-30^{0}C to +70^{0}C**
	Operation	**-30^{0}C to +70^{0}C**

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	Storage	**-30^{0}C to +70^{0}C**
Loose tubes	**Number**	**1**
	Material	**PBT (Dry tube)**
Loose Tube ID/OD	**4-16 Cores**	**2.4/3.2 ± 0.3 mm**
	24 Cores	**3.2/4.0 ± 0.3 mm**
Peripheral Strength Member		**Glass 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**	**9.0 ± 0.5 mm**
	24 Cores	**9.5 ± 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**

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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	≤ 1µm
Cladding Diameter		125 ± 1 µm	125 ± 1 µm	125 ± 1 µm	125 ± 1 µm
Cladding Non-circularity		≤ 1 %	≤ 1 %	≤ 1 %	≤ 1 %
Coating Diameter (Coloured)		250 ± 15 µm	250 ± 15 µm	250 ± 15 µm	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

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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 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

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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).
Directive 2011/65/EU (RoHS II)	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — compliant. Applies within EU member states).
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.

Part Code Table

Part Code	Description
274-212	**Excel Enbeam OM4 Multimode Armoured CST Fibre Optic Cable Loose Tube 12 Core 50/125 LSOH Cca Blue**

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