

Enbeam OM3 Multimode 50/125 4 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue

Item Code: 205-280



✕ Duct grade rodent resistant

✕ Sequentially metre marked

✕ 1500/500MHz.km bandwidth

✕ Cut to length service

✕ Euroclass Eca

Product overview

Excel corrugated steel tape (CST) OM3 50/125µm 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.

The cable legend includes Euroclass information as standard for clear classification and traceability on CPR.

Product specifications

Features	Values
Number of Cores	4
Type of tube	Loose tube
Number of fibres per tube	4
Fibre type	Multi mode 50/125
Category	OM3
Armouring	yes
Rodent resistant	yes
Outer sheath material	Copolymer, thermoplastic (LS0H)
Outer sheath colour	Blue
Reaction-to-fire class according to EN 13501-6	Eca
Halogen free (acc. EN 60754-1/2)	yes
Flame retardant	In accordance with EN 50399

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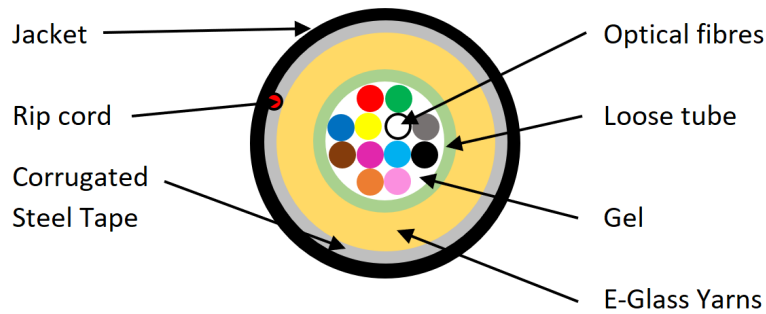
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Features	Values
Outer diameter approx.	8.4 mm

Cross-section diagram



Cable specifications

Features	Values
Fibre Colour Code Standard	TIA 598
Strength members	E-Glass Rovings
Tensile Strength (during installation)	4000N
Tensile strength (installed)	2000N
Crush (Direct Burial)	400N/cm
Temperature range (installation)	-5 to +50C
Temperature range (installed)	-30 to +70C
Temperature range (storage)	-30 to +70C
Weight	148 kg/km
Minimum bend radius (loaded)	20 x Diameter
Minimum bend radius (unloaded)	10 x Diameter
Tube diameter	4mm

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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 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 60793-1-1:2017	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
ITU G.651.1	Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network
EN 50173-1:2011	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

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Applicable Standard	Subject
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	Restriction of Hazardous Substances - Compliant



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.

Part number table

Part Number	Description
205-280	Enbeam OM3 Multimode 50/125 4 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue
205-281	Enbeam OM3 Multimode 50/125 8 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue
205-282	Enbeam OM3 Multimode 50/125 12 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue
205-283	Enbeam OM3 Multimode 50/125 16 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue
205-284	Enbeam OM3 Multimode 50/125 24 Core Armoured CST Fibre Optic Cable Loose Tube Eca - Blue
275-280	Enbeam OM3 Multimode 50/125 4 Core Armoured CST Fibre Optic Cable Loose Tube Cca - Blue
275-281	Enbeam OM3 Multimode 50/125 8 Core Armoured CST Fibre Optic Cable Loose Tube Cca - Blue
275-282	Enbeam OM3 Multimode 50/125 12 Core Armoured CST Fibre Optic Cable Loose Tube Cca - Blue
275-283	Enbeam OM3 Multimode 50/125 16 Core Armoured CST Fibre Optic Cable Loose Tube Cca - Blue
295-284	Enbeam OM3 Multimode 50/125 24 Core Armoured CST Fibre Optic Cable Loose Tube B2ca - 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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