Excel Enbeam OM4 SWA Direct Burial Fibre Optic Cable Loose Tube 24 Core Eca Black

Part Code: 205-385

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Main Features

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

Product Overview

Enbeam OM4 Multimode SWA Direct Burial Fibre Optic Cable Loose Tube 24 Core 50/125 Eca Black.
Excel steel wire (SWA) OM4 50/125µm armoured loose tube optical fibre cables have been designed specifically for direct burial and the most demanding of installations.

These cables are constructed from standard single loose tube cables which are then packed into a flexible but strong fibreglass water blocking strength member.

An internal sheath with a rip cord is inserted with lengths of steel wire armouring over the top and then an oversheath is added providing a strong but flexible cable assembly.

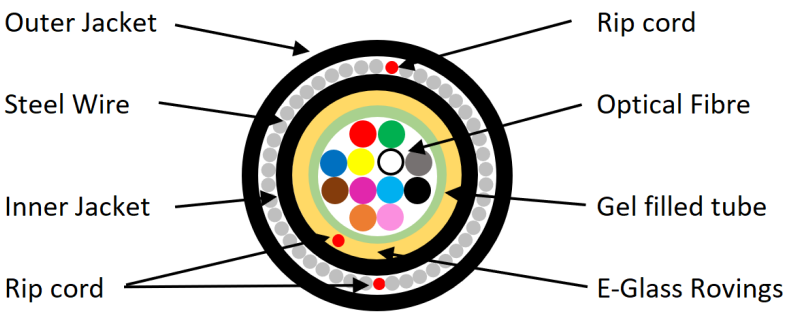
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Product Specifications

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 material	**Copolymer, thermoplastic (LS0H)**
Outer sheath colour	**Black**
Reaction-to-fire class according to EN 13501-6	**Eca**
Outer diameter approx.	**11 mm**

Cross-section diagram



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Cable specifications

Features		Values
Tensile Strength		**3000 N**
Crush Resistance		**1500 N/m**
Torsion		**± 180 °**
Temperature performance	**Installation**	**-30°C to +70°C**
	Operation	**-30°C to +70°C**
	Storage	**-30°C to +70°C**
Loose tubes		**1**
Loose Tube ID/OD		**2.6/3.5 ± 0.1 mm**
Peripheral Strength Member		**Glass Yarn**
Armoring	**Thickness**	**0.8 mm**
	Material	**Soft Zinc Coated Steel Wires**
Outer Sheath	**Thickness**	**1.4 mm (Nominal)**
	Material	**LSZH**
Ripcord	**Number**	**3**
	Material	**Polyester**
Bending Radius	**Short term**	**20 x Diameter**
	Long term	**10 x Diameter**
Attenuation	**@850nm**	**≤ 3.0 dB/km**
	@1300 nm	**≤ 1.0 dB/km**
Core Cladding Concentricity Error		**≤ 1 µm**
Cladding Diameter		**125 ± 1 µm**
Cladding Non-circularity		**≤ 1 %**

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Coating Diameter	**250 ± 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

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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
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.
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).
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.

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Part Code Table

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