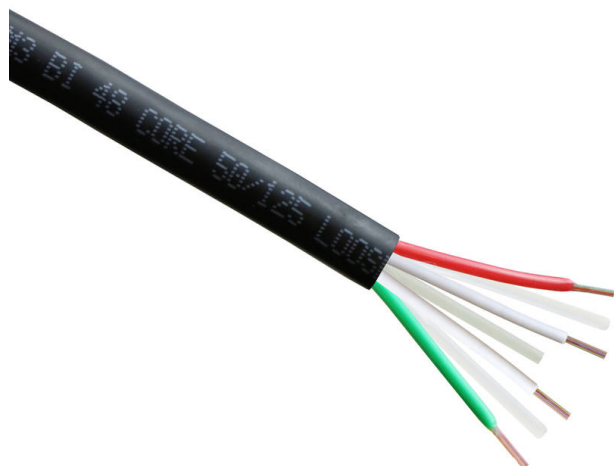


# Enbeam OM3 Multimode 50/125 48 Core Fibre Optic Cable Loose Tube Fca - Black

Item Code: 200-248

**excel**  
without compromise.



✕ Duct Grade

✕ Sequentially Metre Marked

✕ 1500/500MHz.km Bandwidth

✕ Cut to length service

✕ Euroclass Fca

## Product Overview

Excel OM3 50/125µm loose tube optical fibre cables have been designed specifically for internal and external applications. These compact, lightweight cables are extremely flexible and are quick and easy to install.

The cables are constructed around a gel filled (non-dripping and silicon free) tube containing up to 24 colour coded 250µm primary coated fibres. This tube is covered with swellable (for the longitudinal water tightness) yarns as strength members.

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

## Product Specifications

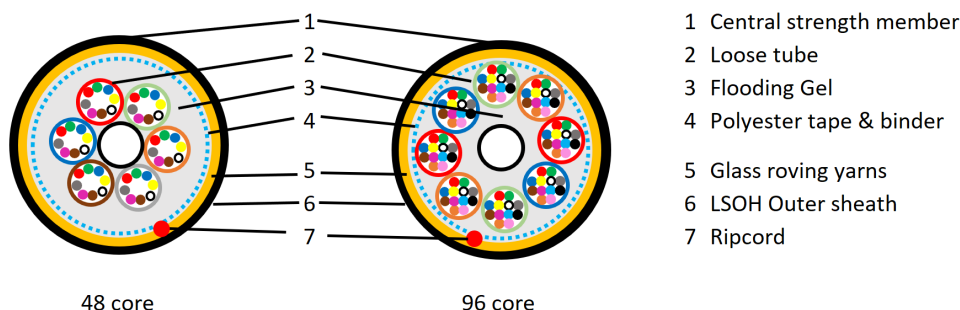
Feature	Values
Number of Cores	48
Type of tube	Loose tube
Fibre type	Multi mode 50/125
Category	OM3
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	Fca
Flame retardant	In accordance with EN 50399

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## Cross-section diagram



## Cable specifications

Features	Values	48 Core	96 Core
Fibre Colour Code Standard	TIA 598		
Tensile Strength (during installation)	4000N		
Tensile strength (installed)	2000N		
Torsion	$\pm 180^\circ$		
Tube inner diameter		1.5mm	1.7mm
Tube outer diameter		2.1mm	2.3mm
Central strength member		$2.1 \pm 0.1$ mm	$2.5 \pm 0.1$ mm
Minimum bend radius (long term)	20 x Diameter		
Minimum bend radius (short term)	10 x Diameter		
Moisture barrier	Flooding gel		
Number of ripcords	2		
Outer sheath diameter	2mm (nominal)		
Strength members	E-Glass Rovings		
Temperature range (installed)	-30°C to +70°C		
Temperature range (operation)	-30°C to +70°C		
Temperature range (storage)	-30°C to +70°C		

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Cable weight

135.0 ± 15 kg/km

170 ± 20 kg/km

## 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 60794-2-20:2013	Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables
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

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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
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

## Part Number Table

Part Number	Description
200-248	Enbeam OM3 Multimode 50/125 48 Core Fibre Optic Cable Loose Tube Fca - Black

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](mailto:sales@excel-networking.com)



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