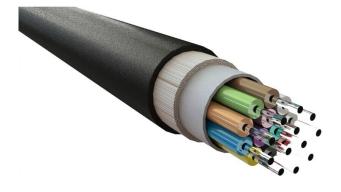
Item Code: 200-087











- X Duct grade rodent resistant
- X Cut to length service
- X Sequentially metre marked
- X 25 Year system warranty
- X Euroclass Dca-s2-d2-a1

Product Overview

Excel OM1 $62.5/125 \mu m$ 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 an E-Glass strength member.

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

Product Specifications

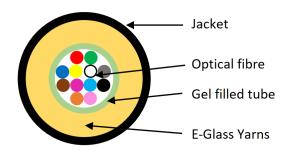
•	
Feature	Values
Number of Cores	12
Type of tube	Loose tube
Number of fibres per tube	12
Fibre type	Multi mode 62.5/125
Category	OM1
Rodent resistant	yes
Outer sheath material	Copolymer, thermoplastic (LS0H)
Outer sheath colour	Black
Flame retardant according to IEC 60332-1-2	yes
Low smoke (acc. IEC 61034-2)	yes
Reaction-to-fire class according to EN 13501-6	Dca

Item Code: 200-087



Smoke development class according to EN 13501-6	s2
Euro class flaming droplets/particles according to EN 13501-6	d2
Euro class acidity according to EN 13501-6	al
Outer diameter approx.	6 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
Loose Tube	Material	PBT
Diameter	2.8±0.1mm(2-12 cores), 3.5±0.20mm(16-24 cores)	
Thickness	0.35±0.05mm	
Strength Member	Material	E-glass Yarns
Sheath	Material	LSZH

Item Code: 200-087



Thickness	Typical 1.1mm	
Cable Diameter	Diameter (±0.3mm)	6.0±0.20mm(2-16 cores), 6.5±0.20mm(18-24 cores)
Cable Weight		Approx. 40kg/km(2-16 cores), 45kg/km(18-24 cores)
Tensile Strength	Installation	1000N
Working	300N	
Cable Impact		1)
Crush Resistance	Installation	1000N
Working	300N	
Torsion		Change of Attenuation ≤ 0.10dB
TOISION		(SM fiber)
TOISIOTI	Change of Attenuation ≤ 0.30dB (MM fiber)	
Temperature Range		
	(MM fiber)	(SM fiber)
Temperature Range	(MM fiber) Installation	(SM fiber)
Temperature Range Working	(MM fiber) Installation -30°C to +60°C	(SM fiber)
Temperature Range Working Storage	(MM fiber) Installation -30°C to +60°C -40°C to +60°C	(SM fiber) -30°C to +60°C

Fibre specifications

Features		Values
Attenuation	@1310nm	3.5 dB/km(Maximum)
@1550nm	1.5 dB/km(Maximum)	
For any 1000 metre	Max. 0.2dB/km	
Overfilled Modal Bandwidth	@850nm	200 MHz.km
@1300nm	600 MHz.km	
Core Diameter		62.5±2.5um
Core Non-circularity		≤5%
Cladding Diameter		125.0±1.0um
Cladding Non-circularity		≤5%
Core - Cladding Concentricity Error		≤1.5um
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Item Code: 200-087



Primary coating diameter - Uncolored		242±7um
Primary Coating Diameter - Colored		250±15um
Primary Coating Non-circularity		≤6%
Primary Coating – Cladding Concentricity Error		≤12um
Group Index of Refraction	@850nm	1.496
@1300nm	1.491	
Proof stress level		≥0.69(≈1% strain) Gpa
Typical Average Strip Force		1.7N
Strip force(peak)		1.3≤Fpeak.strip≤8.9N
Numerical Aperture		0.275±0.015

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 60793-1-1:2022	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

Item Code: 200-087



procedures - Fibre proof test
Optical fibres - Part 1-41: Measurement methods and test procedures - Bandwidth
Characteristics of a 50/125 μm multimode graded index optical fibre cable for the optical access network
Information technology. Generic cabling systems - General requirements
Power, control and communication cables — Cables for general applications in construction works subject to reaction to fire requirements
Common test methods for cables under fire conditions. Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results
Information technology - Generic cabling for customer premises: Part 1 General Requirements
Optical Fiber Cabling and Components Standard
Optical Fibre Cable Colour Coding
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).
Compliant to Waste Framework Directive
Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
EU Regulation for the restriction of Persistent Organic Pollutants.

Part Number Table

Part Number	Description
200-047	Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 4 Core 62.5/125 Dca Black
200-060	Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 6 Core 62.5/125 Dca Black
200-067	Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 8 Core 62.5/125 Dca Black
200-081	Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 16 Core 62.5/125 Dca Black
200-084	Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 24 Core 62.5/125

Item Code: 200-087



Dca Black

200-087 Excel Enbeam OM1 Multimode Fibre Optic Cable Loose Tube 12 Core 62.5/125

Dca 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

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