

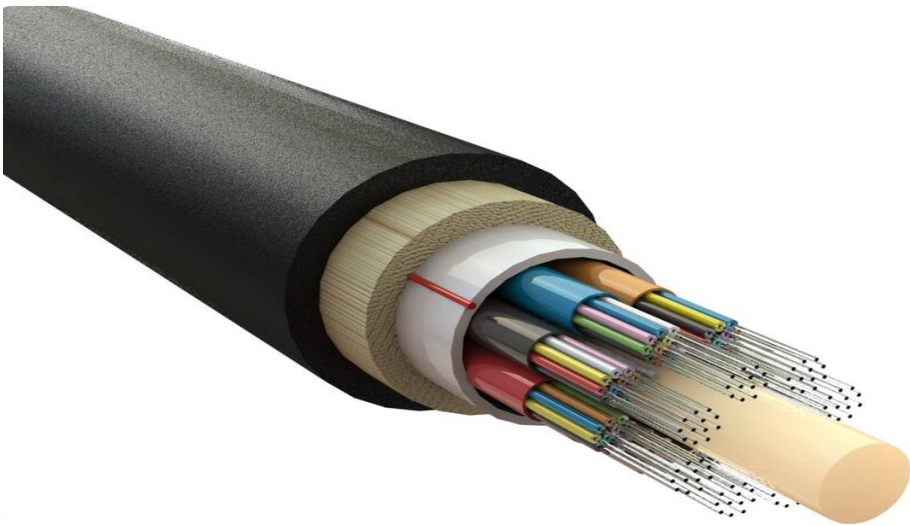
Excel Enbeam OS2 Singlemode Int/Ext Distribution Cable

G.652.D 250 µm 144 Core B2ca Black



Part Code: 295-317

sales@excel-networking.com
excel-networking.com



Main Features

- / Water resistant
- / Duct grade
- / Sequentially metre marked
- / Cut to length service
- / Euroclass: B2ca-s1b,d0,a1
- / 25 year system warranty

Product Overview

Excel Enbeam OS2 distribution cables have been designed specifically for internal and external applications. The single mode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility.

Product Specifications

Feature	Values
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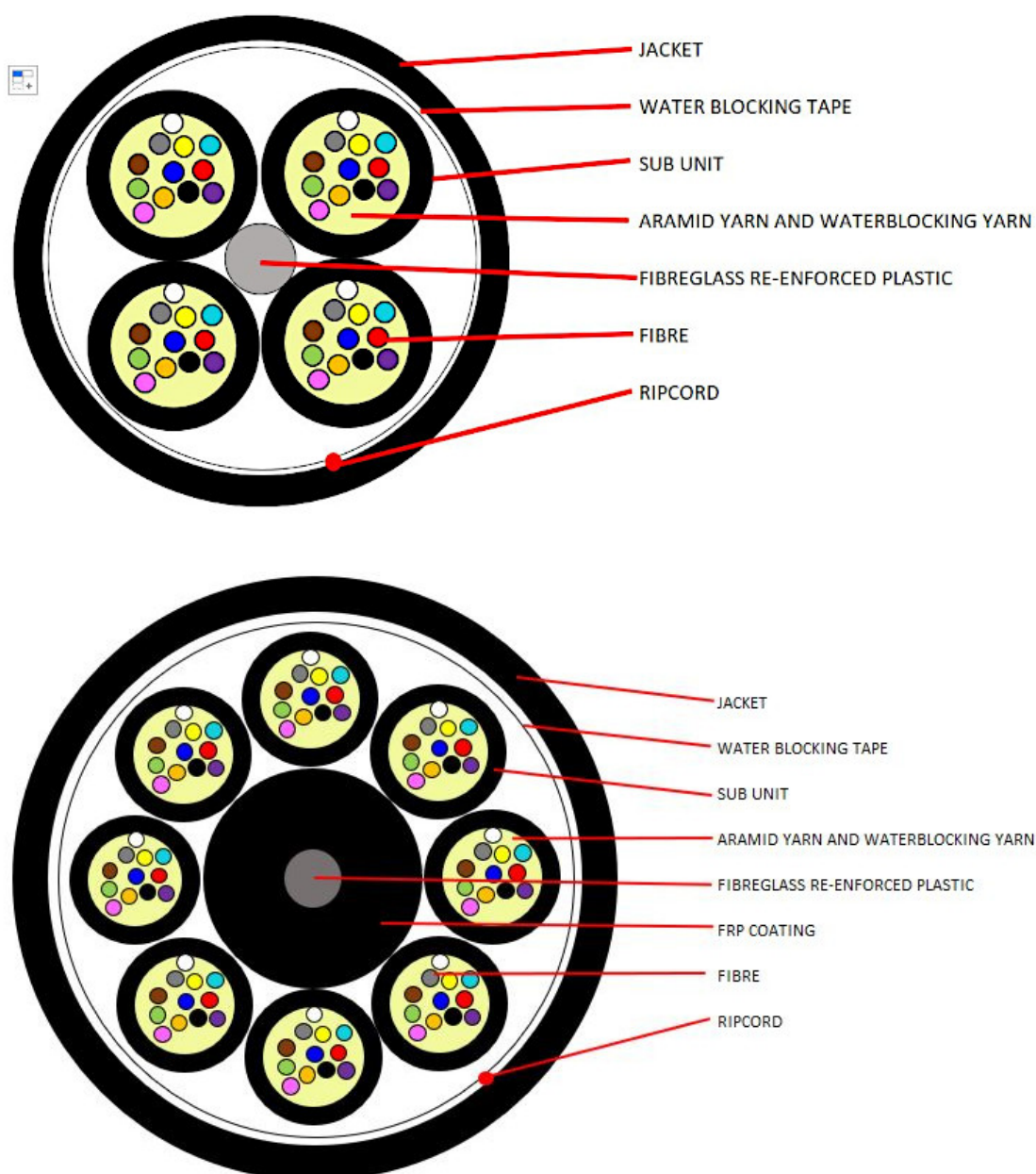
Number of Cores	144
Type of tube	Sub unit
Number of fibres per tube	12
Fibre type	Single mode 9/125
Category	OS2
Rodent resistant	no
Outer sheath material	Copolymer, thermoplastic (LSOH)
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	B2ca
Smoke development class according to EN 13501-6	s1b
Euro class flaming droplets/particles according to EN 13501-6	d0
Euro class acidity according to EN 13501-6	a1
Outer diameter approx.	16 mm

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Product drawing



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Cable specifications

Features		Values
Tensile strength	Long term	400N
	Short term	1320N
Crush resistance	Long term	200N/m
	Short term	1000N/m
Torsion		± 180°
Impact		1N/m
Temperature performance	Installation	-30°C to +70°C
	Operation	-30°C to +70°C
	Storage	-30°C to +70°C
Sub units		8
Sub unit OD		3.0 ± 0.1mm
Sub unit thickness		0.45 ± 0.05mm
Sub unit material		LSZH
Number of fibre per sub unit		12
Peripheral Strength member		Aramid Yarn
Central strength member		FRP
Water blocking		Water blocking tape and yarn
Outer sheath		
	Material	LSZH
Ripcord	Number	1
	Material	Polyester

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Bending radius	Short term	20 x Diameter
	Long term	10 x Diameter
Attenuation	@1310nm	≤ 0.40 dB/km
	@1550 nm	≤ 0.30 dB/km
Core Cladding concentricity error		≤ 0.6 µm
Cladding diameter		125 ± 1 µm
Cladding non-circularity		≤ 1 %
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

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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
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

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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
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