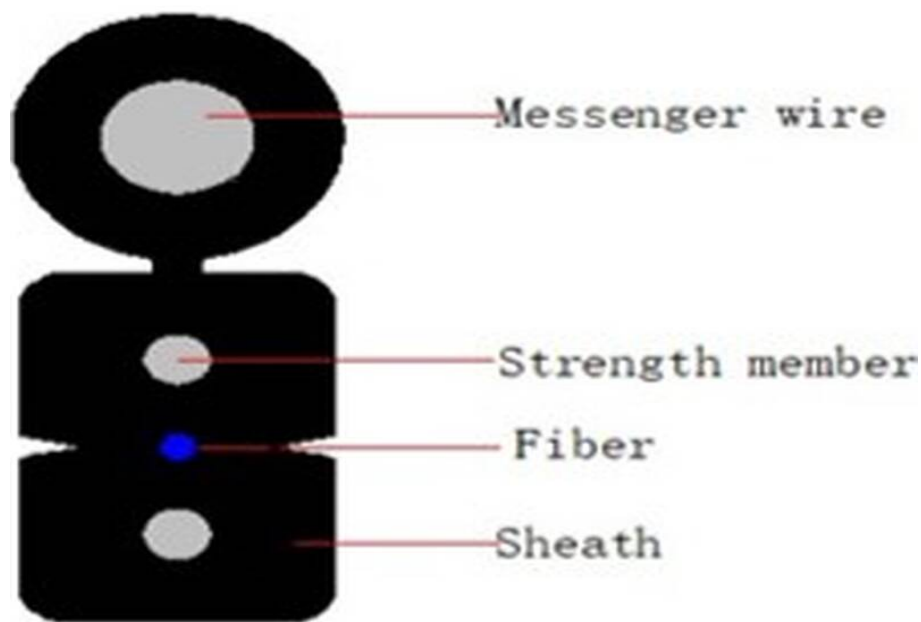


Excel enbeam OS2 Flat Drop Fibre Outdoor 4 Core Cable

Part Code: 206-000

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Main Features

- / BOW type structure
- / Duct grade
- / LSZH outer jacket
- / Suitable for self-supporting drop installation
- / G.657.A2 fibre cores
- / 25-Year system warranty

Product Overview

Excel Flat Central Tube type 9/125/250 μ m optical fibre cables have been designed specifically for applications requiring a high degree of mechanical protection. These compact, lightweight cables are extremely rugged and quick and easy to install.

Optical properties of the SM fibre are achieved through a germanium doped silica-based core with a pure silica cladding which meets ITU-T G657 and IEC 60793-2-50, UV curable acrylate protective coating is applied over the glass cladding.

The cable has two strength members, made from 0.5 +/- 0.05 GFRP and one galvanized steel wire 1.0 +/- 0.05 messenger wire. The print legend on the cable includes information regarding the Test-Trace number for traceability.

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Product Specifications

Feature	Values
Number of Cores	4
Type of tube	None
Number of fibres per tube	4
Fibre type	Single mode 9/125
Category	OS2
Outer sheath material	LSZH
Outer sheath colour	Black

Additional specifications

Feature	Value
Cladding diameter	125.0 ± 0.7 µm
Cladding non-circularity	≤ 1.0%
Coating diameter	245 ± 10 µm (Before Colored) 250 ± 15 µm (Colored)
Core concentricity error	≤ 0.5 µm
Mode field diameter at 1310 nm	(8.6–9.2) ± 0.4 µm
Attenuation at 1310 nm	≤ 0.35 dB/km - ≤ 0.40 dB/km
Attenuation at 1383 nm	≤ 0.35 dB/km - ≤ 0.40 dB/km
Attenuation at 1550 nm	≤ 0.21 dB/km - ≤ 0.30 dB/km
Attenuation at 1625 nm	≤ 0.23 dB/km - ≤ 0.35 dB/km
Zero dispersion wavelength	1300–1324 nm

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Zero dispersion slope	$\leq 0.092 \text{ ps}/(\text{nm}^2 \cdot \text{km})$
Cable cut-off wavelength	$\leq 1260 \text{ nm}$
Polarization mode dispersion design link value (M=20, Q=0.01%)	$\leq 0.1 \text{ ps}/\sqrt{\text{km}}$
Macro-bend loss (10 turns, 15 mm radius)	$\leq 0.03 \text{ dB at } 1550 \text{ nm}$
	$\leq 0.1 \text{ dB at } 1625 \text{ nm}$
Macro-bend loss (1 turn, 10 mm radius)	$\leq 0.1 \text{ dB at } 1550 \text{ nm}$
	$\leq 0.2 \text{ dB at } 1625 \text{ nm}$
Macro-bend loss (1 turn, 7.5 mm radius)	$\leq 0.5 \text{ dB at } 1550 \text{ nm}$
	$\leq 1.0 \text{ dB at } 1625 \text{ nm}$
Proof stress level	$\geq 100 \text{ kpsi (0.69 GPa)}$
Coating strip force (average value)	1-5 N
Coating strip force (peak value)	1.0-8.9 N
Fiber curl (Radius)	$\geq 4 \text{ m}$

Standards

Applicable standard	Subject
ITU-T G.657	Characteristics of a bending-loss insensitive single-mode optical fibre and cable
IEC 60794-1-1	Optical fiber cables- part1-1-Generic specification-General
IEC 60794-1-21	Optical fiber cables- part1-2-Generic specification-Basic optical cable test procedure-Mechanical test methods
IEC 60794-1-22	Optical fiber cables- part1-2-Generic specification-Basic optical cable test procedure-Mechanical test methods
IEC 60332-1-1	Test for vertical flame propagation for a single insulated

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wire or cable - Apparatus

IEC 60332-1-2	Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame
ANSI/TIA 568-3.D	Optical Fiber Cabling and Components Standard
ANSI/TIA/EIA 598-D	Optical Fibre Cable Colour Coding
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).
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.
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.

Part Code Table

Part Code	Description
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