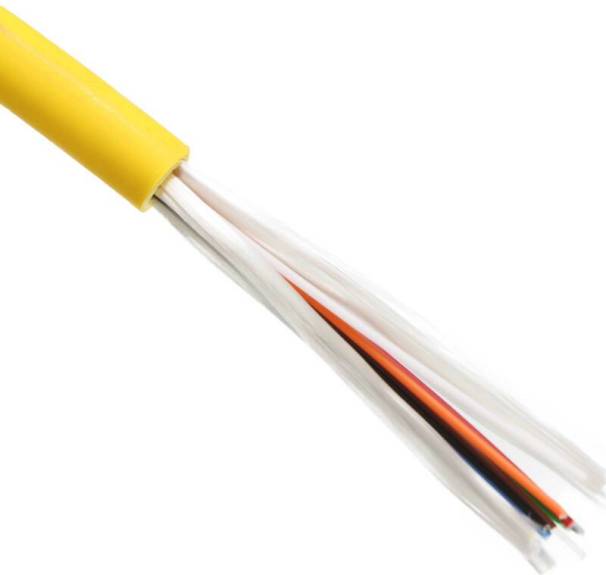


Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 8 Core Cca Yellow

Item Code: 205-322-YW



- Water Resistant & UV Resistant
- Duct grade - Rodent resistant
- Sequentially metre marked
- Cut to length service
- Euroclass Cca-s1a-d0-a1
- 25 Year system warranty

Product Overview

Enbeam OS2 Singlemode Fibre Optic Cable Tight Buffered 8 Core 9/125 Cca Yellow, part of a huge range of OS2 fibre optic cables fully stocked at Mayflex.

The singlemode fibre is G.652.D compliant low water peak grade and offers OS2 performance and OS1 backwards compatibility.

The cables are constructed with up to 24 colour coded 900µm tight buffered fibres surrounded by an E Glass as a strength member and covered with low smoke zero halogen, outer sheath.

Product Specifications

Feature	Values
Number of Cores	8
Type of tube	Tight
Fibre type	Single mode 9/125
Category	OS2
Rodent resistant	yes
Outer sheath material	Copolymer, thermoplastic (LS0H)
Outer sheath colour	Yellow
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	Cca

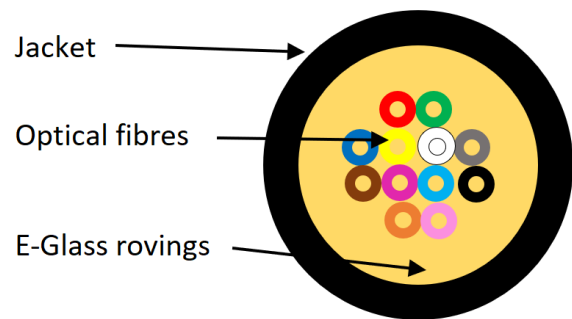
Excel Enbeam OS2 Fibre Optic Cable Tight Buffered
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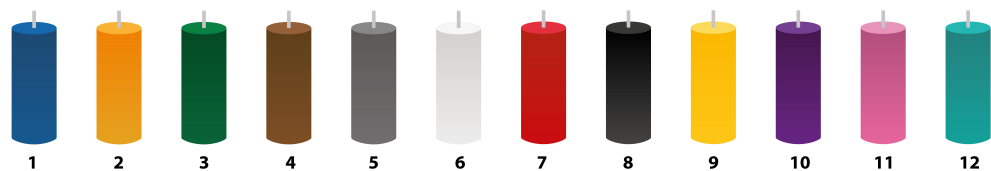


Smoke development class according to EN 13501-6	s1a
Euro class flaming droplets/particles according to EN 13501-6	d0
Euro class acidity according to EN 13501-6	a1
Outer diameter approx.	7 mm

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
Tight Buffered Fiber	Material	LSZH
	Diameter	0.85±0.05mm
Strength Member	Material	E-glass Yarns
Sheath	Material	LSZH

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Thickness		Typical 1.1mm
Cable Diameter	Diameter ($\pm 0.3\text{mm}$)	Approx. 6.5mm(4 cores), 6.6mm(6 cores), 7.0mm(8 cores)
		7.0mm(12 cores), 8.0mm(16 cores), 8.5mm(24 cores)
Cable Weight		Approx. 34kg/km(4 cores), 36kg/km (6 cores), 39kg/km (8 cores)
		43kg/km (12 cores), 52kg/km (16 cores), 63kg/km (24 cores)
Tensile Strength	Installation	800N(≤ 12 cores), 1100N(> 12 cores)
	Working	400N(≤ 12 cores), 550N(> 12 cores)
Cable Impact		1J
Crush Resistance	Installation	1000N
	Working	300N
Torsion		Change of Attenuation $\leq 0.10\text{dB}$ (SM fiber)
		Change of Attenuation $\leq 0.30\text{dB}$ (MM fiber)
Temperature Range	Installation	-30°C to +60°C
	Working	-30°C to +60°C
	Storage	-40°C to +60°C
Bending Radius	Short term	20 x Diameter
	Long term	10 x Diameter

Fibre specifications

Features		Values
Attenuation	@1310nm	0.39 dB/km (Maximum)
	@1550nm	0.25 dB/km (Maximum)
	For any 1000 metre	Max. 0.1 dB/km
Reflex Index	@1310nm	1.467
	@1550nm	1.468
Cladding Diameter		125.0 \pm 0.7 μm
Cladding Non-circularity		$\leq 1\%$
Core - Cladding Concentricity Error		$\leq 0.6 \mu\text{m}$

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Primary Coating Diameter		242 ± 7 µm
Primary Coating Non-circularity		≤5%
Primary Coating - Cladding Concentricity Error		≤12 µm
Chromatic Dispersion Coefficient	In 1285-1330nm	≤3.4 ps/km·nm
	@1550nm	≤18.0 ps/km·nm
	@1625nm	≤22.0 ps/km·nm
Zero Dispersion Wavelength, λ ₀		1300-1324 nm
Zero Dispersion Slope		≤0.092 ps/(km·nm ²)
Cut-off Wavelength, λ _{cc}		≤1260 nm
Mode Field Diameter	@1310nm	9.0±0.5 µm
	@1550nm	10.4±0.5 µm
Macro Bending Loss(100 turns)	25mm mandrel	≤0.05 dB @1310 nm & 1550 nm
	30mm mandrel	≤0.05 dB @1625 nm
PMD Coefficient, Max. Uncabled		≤0.5 ps/√km
PMDQ Link Design Value		≤0.2 ps/√km
Proof Stress Level		≥ 0.69 Gpa (≈1% strain)
Fibre Curl Radius		>4 m
Stripe Force(peak)		1.3 ≤ F _{peak.strip} ≤ 8.9 N
Dynamic Fatigue Resistance Aged and Unaged		≥20
Static Fatigue Resistance		≥23

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

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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
IEC 60794-2-20:2013	Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables
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
RoHS-II/-III (2011/65/EU & 2015/863): 2023	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).
WFD: 2023	Compliant to Waste Framework Directive
SCIP: 2023	Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)
POPs (EU) No 2019/1021	EU Regulation for the restriction of Persistent Organic Pollutants.

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Part Number Table

Part Number	Description
205-230	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 6 Core LSZH Cca Black
205-320	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 4 Core LSZH Cca Black
205-320-ITS	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 4 Core LSZH Cca Black
205-322	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 8 Core Cca Black
205-322-YW	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 8 Core Cca Yellow
205-324	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 12 Core Cca Black
205-324-ITS	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 12 Core Cca Black
205-326	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 16 Core Cca Black
205-328	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 24 Core Cca Black
205-328-YW	Excel Enbeam OS2 Fibre Optic Cable Tight Buffered 24 Core LSZH Cca Yellow

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



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