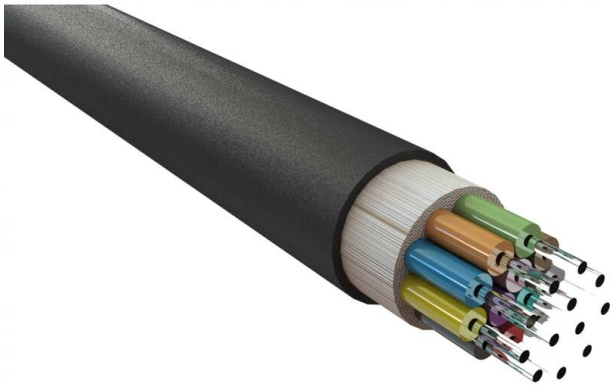
Excel Enbeam OM3 Tight Buffered 12 Core Internal Cable LSOH B2ca Black

Item Code: 296-157



- Suitable for internal use only
- Sequential meter mark
- Rodant resistant
- Cut to length service
- 25 year warranty
- Euroclass: B2ca-s1a,d0,a1

Product Overview

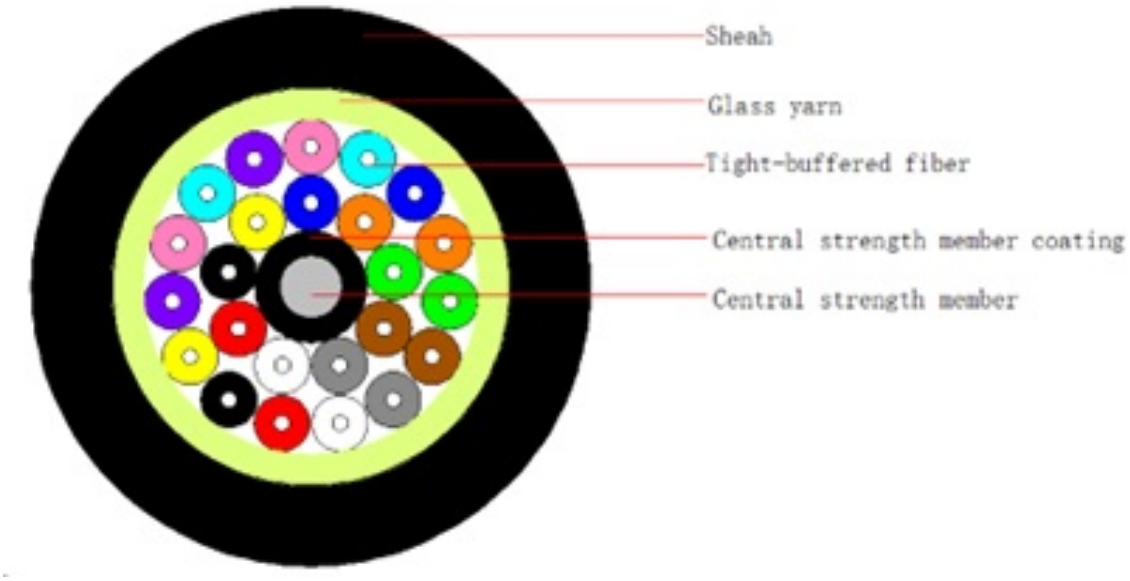
Excel Enbeam OM3 distribution cables have been designed specifically for internal applications. The multi mode fibre offers OM3 performance and OM2 backwards compatibility. The cables are constructed using multiple buffered fibres from 4 to 24 coloured 900 µm fibres surrounded by aramid yarn around a central FRP strength member. This allows the cable to be used in internal applications with a Euroclass rating of B2ca.

Product Specifications

Feature	Values
Number of Cores	12
Type of tube	Tight
Number of fibres per tube	12
Fibre type	Single mode 9/125
Category	OM3
Outer sheath material	LSZH
Outer sheath colour	Black
Reaction-to-fire class according to EN 13501-6	B2ca
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.	9 mm

Product drawings



Additional specifications

Feature	Value	
Tensile strength	Long term	400 N
	Short term	1320 N
Crush resistance	Long term	300 N/m
	Short term	1000 N/m
Temperature performance	Installation	-5°C to +70°C
	Operation	-20°C to +70°C
	Storage	-40°C to +70°C
Number of fibre		45508
Peripheral strength member		E Glass
Central strength member		GFRP
Outer sheath	Thickness	1.0 mm (Nominal)
	Material	LSZH
Bending radius	Short term	20 x Diameter

	Long term	10 x Diameter
Attenuation	@850 nm	≤ 3.5 dB/km
	@1300 nm	≤1.5 dB/km
Core cladding concentricity error		≤ 2 µm
Cladding diameter		125 ± 1 µm
Cladding non-circularity		≤ 6 %
Coating diameter		250 ± 10 µm
Coating-cladding concentricity error		≤ 12.5

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 procedures - Fibre proof test
IEC 60793-1-41:2010	Optical fibres - Part 1-41: Measurement methods and test procedures – Bandwidth
ITU G.651.1	Characteristics of a 50/125 µm multimode graded index

	optical fibre cable for the optical access network
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.

Part Number Table

Part Number	Description
296-112	Excel Enbeam OM4 Tight Buffered 12 Core Internal Cable LSOH B2ca Black
296-116	Excel Enbeam OM4 Tight Buffered 16 Core Internal Cable LSOH B2ca Black
296-124	Excel Enbeam OM4 Tight Buffered 24 Core Internal Cable LSOH B2ca Black
296-157	Excel Enbeam OM3 Tight Buffered 12 Core Internal Cable LSOH B2ca Black
296-158	Excel Enbeam OM3 Tight Buffered 16 Core Internal Cable LSOH B2ca Black
296-159	Excel Enbeam OM3 Tight Buffered 24 Core Internal Cable LSOH B2ca Black