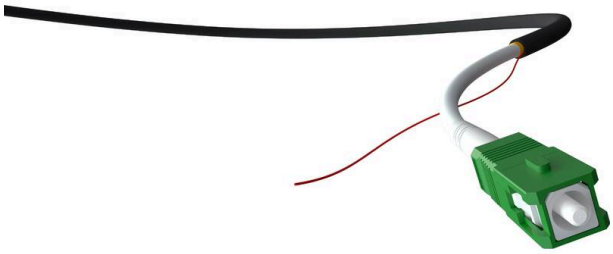
Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 40 m

Item Code: 207-301-40



- Suitable for internal/external use
- G.657.B3
- LSZH
- UV-resistant inner and outer Jacket
- Euroclass: Cca (internal core)
- PIA approved

Product Overview

The Enbeam dual jacket 1 fibre drop cable has been designed for the FTTX market, the cable is designed to allow the transition between internal and external applications without changing cable types, reducing the need to splice.

The cable has an internal grade 3 mm tight buffer G.657.B3 LSZH UV-resistant jacket fibre covered with additional Aramid yarn and two rip cords this is then covered with a LSZH UV-resistant outer jacket.

The outer jacket can then be stripped back to reveal the internal grade cable to the required length for installation into the building, these cables can be pre-terminated with standard connectors, our new pre-terminated ferrule connection or left as an open ended, saving time and money on site as no external transition/splice enclosure is required.

Product Specifications

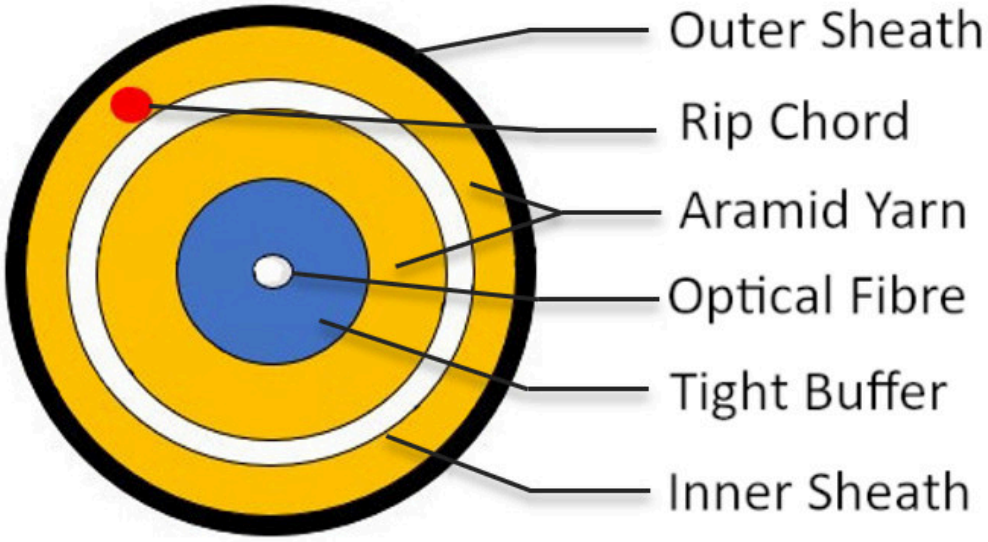
Feature	Values
Number of Cores	1
Type of tube	Tight
Fibre type	Single mode 9/125
Category	OS2
Rodent resistant	no
Outer sheath colour	Black
Low smoke (acc. IEC 61034-2)	yes
Reaction-to-fire class according to EN 13501-6	Cca
Smoke development class according to EN 13501-6	s1b
Euro class flaming droplets/particles according to EN 13501-6	d1

Euro class acidity according to EN 13501-6	a1
Outer diameter approx.	4.5 mm

Additional specifications

Features		Values
Attenuation	@1310nm (dB/KM)	≤0.4
	@1550nm (dB/KM)	≤0.3
Outer jacket material		LSZH-UV
Outer jacket colour		Black
Outer jacket thickness (mm)		0.6 ± 0.05
Strength member		Aramid yarn
Fibers color		Blue
Tight buffer material		LSZH
Tight buffer diameter (mm)		0.85 ± 0.05
Inner jacket colour		White
Inner jacket material		LSZH
Inner jacket thickness (mm)		0.45 ± 0.05
Inner cable diameter (mm)		3.0 ± 0.2
Short term tensile strenght		650 N
Minimum breaking tension		1500 N
Short crush resistance (N/100 mm)		1000
Overall cable diameter		4.5 mm
Operating temperature		-20 to +65 °C

Product drawings



Standards

Applicable standard	Detail
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 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
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
207-301-05	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 5 m
207-301-10	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 10 m
207-301-100	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 100 m
207-301-110	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125

	SCA-Open 110 m
207-301-120	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 120 m
207-301-20	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 20 m
207-301-30	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 30 m
207-301-40	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 40 m
207-301-50	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 50 m
207-301-60	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 60 m
207-301-70	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 70m
207-301-80	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 80 m
207-301-90	Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 90 m