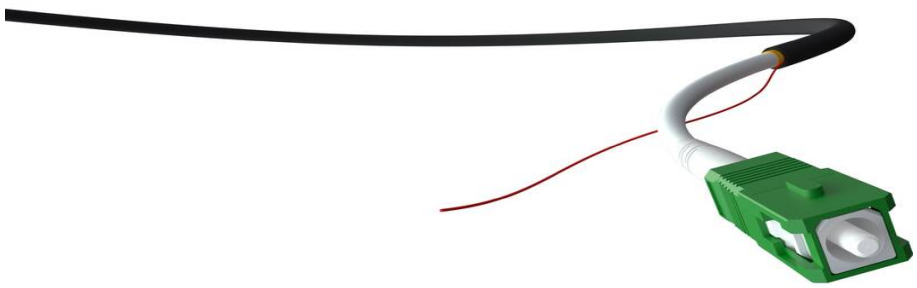
Excel Enbeam OS2 SM G.657.B3 Int/Ext Dual Jacket Drop Cable 1 Core 9/125 SCA-Open 20 m

Part Code: 207-301-20

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CIBSE TM65 Embodied Carbon: 2.443 kg CO2e



Main Features

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

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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**

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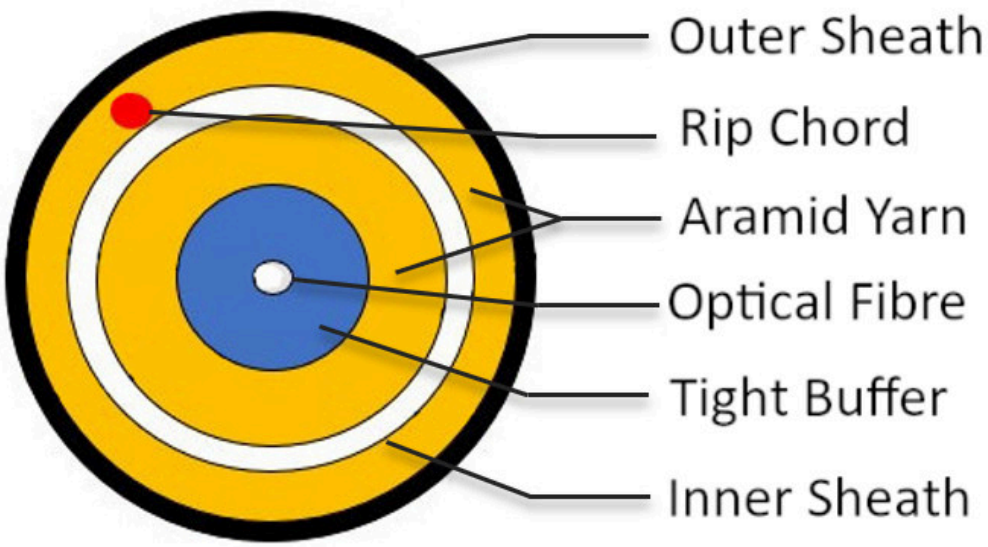
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Fibers color	**Blue**
Tight buffer material	**LSZH**
Tight buffer diameter (mm)	**0.85 ± 0.05**
Inner jacket colour	**White**
Inner jacket material	**LSZH**
Inner jacket thickness (mm)	**0.45 ± 0.05**
Inner cable diameter (mm)	**3.0 ± 0.2**
Short term 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**

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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

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	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
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).

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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 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
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**

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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**

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