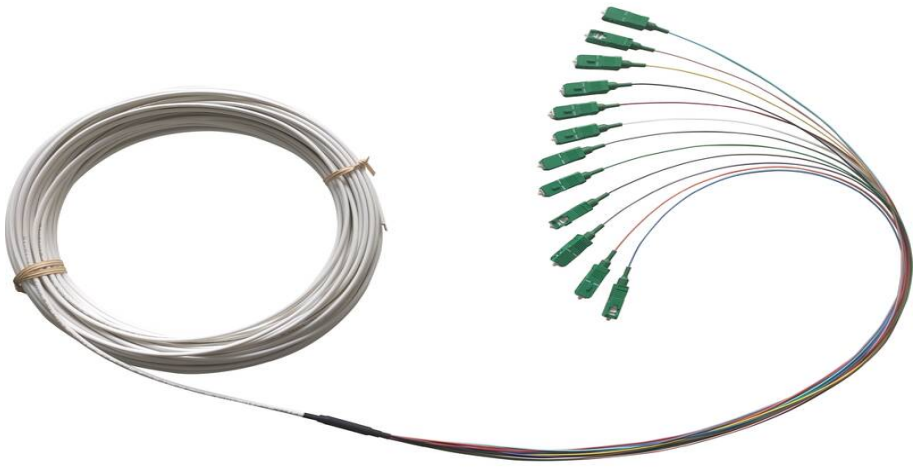
Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 50 m

Part Code: 207-100-50

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excel-networking.com



Main Features

/ Suitable for internal use

/ G.657.B3

/ LSZH

/ Euro class Cca-s1b,d0,a1

Product Overview

The Excel Encasa 12 fibre corridor cable has been designed for multi dwelling applications, the cable is constructed with 12 colour coded 900 µm tight buffered fibres, covered with a flame retardant, low smoke zero halogen, outer sheath.

The cable is designed is such a way that it allows mid span window cuts to be made to enable the installer to pull out a single fibre to feed the apartment or room being passed.

This cable can be installed along corridors with or with out celling voids using adhesive if required.

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Product Specifications

Feature	Values
Number of Cores	**12**
Type of tube	**Tight**
Fibre type	**Single mode 9/125**
Category	**OS2**
Rodent resistant	**no**
Outer sheath material	**Copolymer, thermoplastic (LS0H)**
Outer sheath colour	**White**
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	**d0**
Euro class acidity according to EN 13501-6	**a1**
Outer diameter approx.	**2 mm**

Additional specifications

Features		Values
Insertion loss	**SCA @ 1310 nm**	**≤ 0.3 dB**
Return loss	**SCA @ 1310 nm**	**> 65 dB**
Maximum tensile strength (N)	**Short term**	**160**
	Long term	**80**
Minimum bend radius (mm)	**Dynamic**	**20 x diameter**

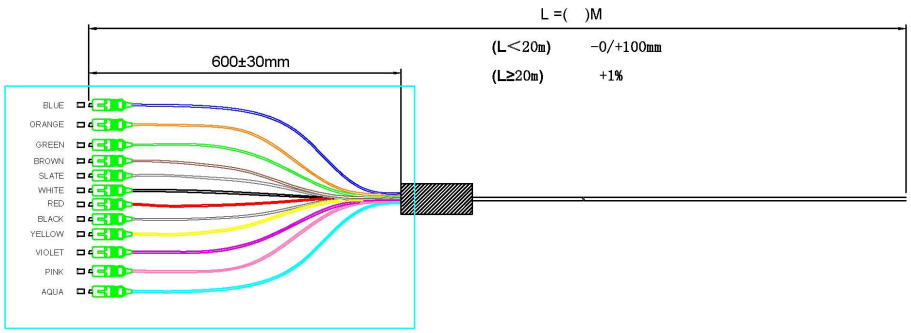
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	Static	**10 x diameter**
Maximum cruish resistance (N/100mm2)	**Short term**	**500**
	Long term	**100**
Maximum attenuation	**@ 1310 nm**	**≤ 0.35 dB**
	@ 1550 nm	**≤ 0.21 dB**
Durability:		**500 matings**
Fibre type		**G.657.B3**
Outer jacket material		**LSZH**
Operational temperature		**-20 to +70 °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 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
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).
ECHA SCIP Database	Compliant; product does not contain SVHCs (Substances

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	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
207-100-100	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 100 m**
207-100-30	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 30 m**
207-100-40	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 40 m**
207-100-50	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 50 m**
207-100-60	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 60 m**
207-100-75	**Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 SCA to Open Ended 75 m**

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