

# Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 30 m

Part Code: 207-101-30

sales@excel-networking.com  
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  $\mu\text{m}$  tight buffered fibres, covered with a flame retardant, low smoke zero halogen, outer sheath.

The cable is designed in 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 without ceiling voids using adhesive if required.

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## Product Specifications

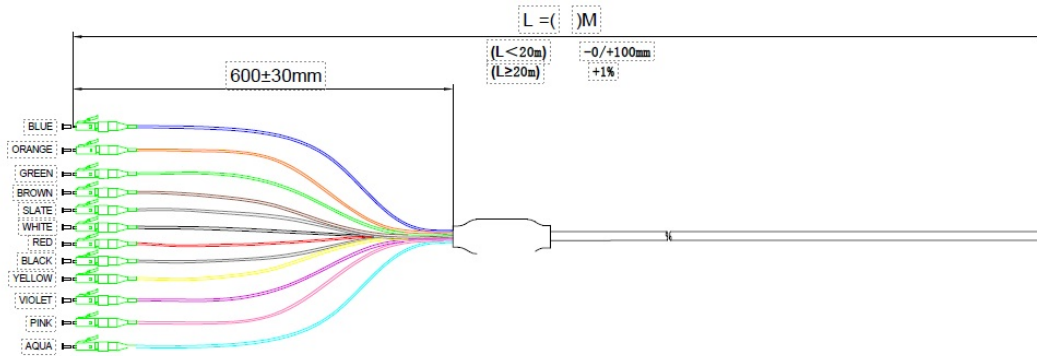
| Feature                                                       | Values                          |
|---------------------------------------------------------------|---------------------------------|
| Number of Cores                                               | 12                              |
| Type of tube                                                  | Tight                           |
| Fibre type                                                    | Single mode 9/125               |
| Category                                                      | OS2                             |
| Rodent resistant                                              | no                              |
| Outer sheath material                                         | Copolymer, thermoplastic (LSOH) |
| 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                            |

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## Cross-section diagram



## Fibre specifications

| Features                                          |            | Values        |
|---------------------------------------------------|------------|---------------|
| Insertion loss                                    | @1310 nm   | ≤0.3 dB       |
| Return loss                                       | @1310 nm   | > 65 dB       |
| Maximum tensile strength (N)                      | Short term | 160           |
|                                                   | Long term  | 80            |
| Minimum bend radius mm                            | Dynamic    | 20 x diameter |
|                                                   | Static     | 10 x diameter |
| Maximum crush resistance (N/100 mm <sup>2</sup> ) | 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          |

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|                         |              |
|-------------------------|--------------|
| Outer diameter          | 2 mm         |
| Operational temperature | -20 to +70°C |

## 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 60754-2:2011          | 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                                                              |
| EC 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                                                                                         |
| EC 60793-1-22:2001        | Optical fibres - Part 1-22: Measurement methods and test procedures - Length measurement                                                                                       |
| EC 60793-1-30:2010        | Optical fibres - Part 1-30: Measurement methods and test procedures - Fibre proof test                                                                                         |
| TU 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                                                                     |

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|                                    | 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                                                                                              |
| SO/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 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. |

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## Part Code Table

| Part Code   | Description                                                                               |
|-------------|-------------------------------------------------------------------------------------------|
| 207-101-100 | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 100 m |
| 207-101-30  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 30 m  |
| 207-101-40  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 40 m  |
| 207-101-50  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 50 m  |
| 207-101-60  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 60 m  |
| 207-101-70  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 70 m  |
| 207-101-75  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 12 Core 9/125 LCA to Open Ended 75 m  |