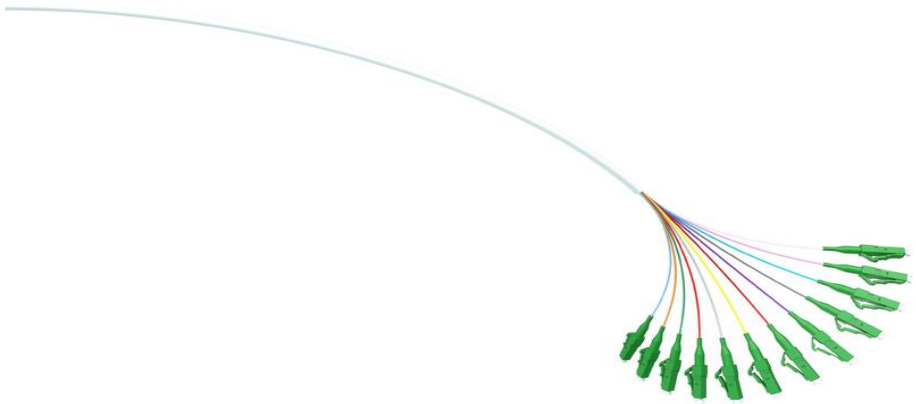
# Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 100 m

**Part Code: 207-102-100**

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 8 fibre corridor cable has been designed for multi dwelling applications, the cable is constructed with 8 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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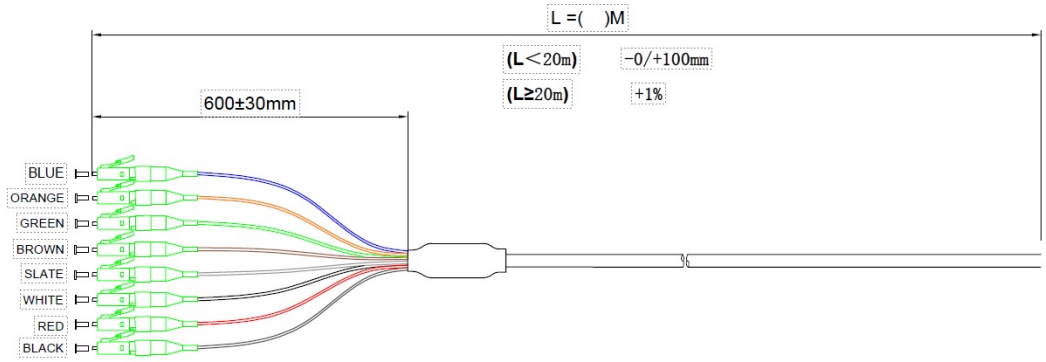
## Product Specifications

| Feature | Values |
|---|---|
| Number of Cores | **8** |
| 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** |



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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 cruish resistance (N/100 mm2) | **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 |
|---|---|
| 207-102-100 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 100 m** |
| 207-102-30 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 30 m** |
| 207-102-40 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 40 m** |
| 207-102-50 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 50 m** |
| 207-102-60 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 60 m** |
| 207-102-70 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 70 m** |
| 207-102-75 | **Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 8 Core 9/125 LCA to Open Ended 75 m** |



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