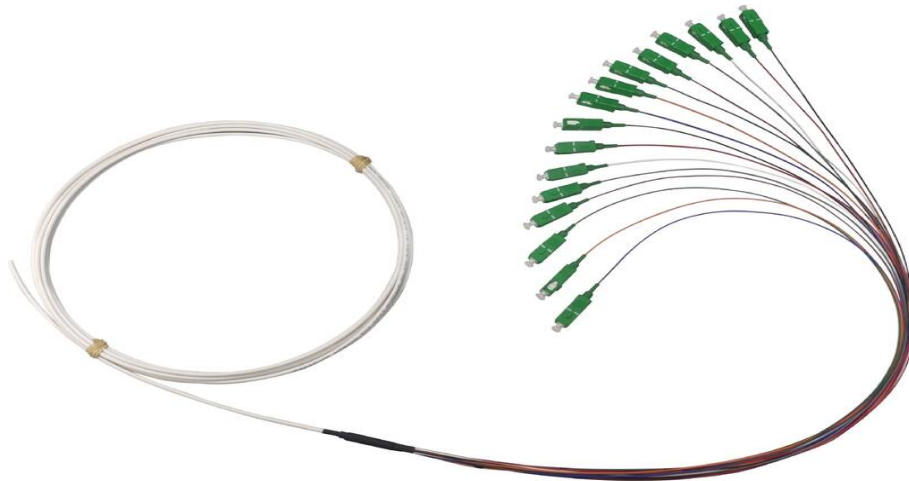


# Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 40 m

Part Code: 207-104-40

sales@excel-networking.com  
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## Main Features

/ Suitable for internal use

/ G.657.B3

/ LSZH

/ Euro class Cca-s1b,d0,a1

## Product Overview

The Excel Encasa 16 fibre corridor cable has been designed for multi dwelling applications, the cable is constructed with 16 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.

## Product Specifications

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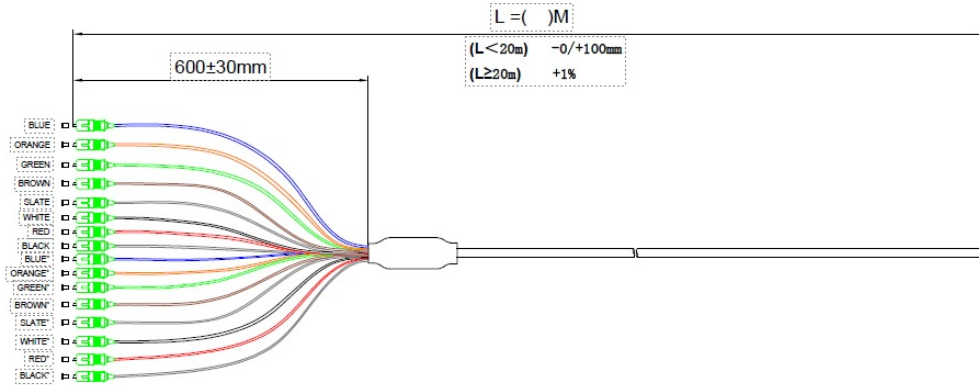
| Feature   | Values                          |
|---|---------------------------------|
| Number of Cores   | 16                              |
| Type of tube  | Tight                           |
| Fibre type  | Single mode 9/125               |
| Category  | OS2                             |
| Rodent 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   | $\leq 0.3 \text{ dB}$  |
| Return loss                                       | @1310 nm   | $> 65 \text{ dB}$      |
| 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   | $\leq 0.35 \text{ dB}$ |
|   | @1550 nm   | $\leq 0.21 \text{ dB}$ |
| Durability:                                       |            | 500 matings            |
| Fibre type  |            | G.657.B3               |

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|                         |              |
|-------------------------|--------------|
| Outer jacket material   | LSZH         |
| 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   |

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|                                    |  |
|------------------------------------|--|
| 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  |
| 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).   |
| UKSI 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   |
|-------------|---|
| 207-104-100 | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 100 m |
| 207-104-30  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 30 m  |
| 207-104-40  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 40 m  |
| 207-104-50  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 50 m  |
| 207-104-60  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 60 m  |
| 207-104-70  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 70 m  |
| 207-104-75  | Excel Encasa OS2 Singlemode G.657.B3 Corridor Cable 16 Core 9/125 SCA to Open Ended 75 m  |