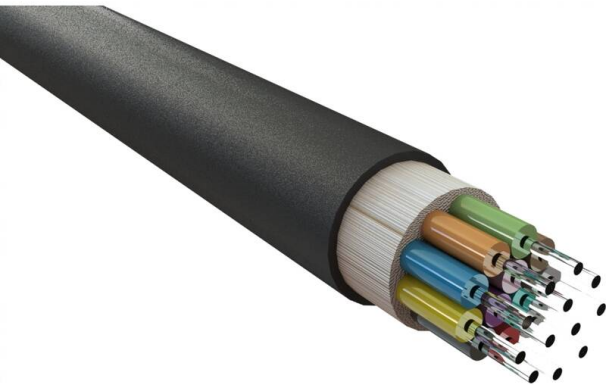


# Excel Enbeam OS2 Tight Buffered G.657.A2 24 Core Internal Cable LSOH B2ca Black

Item Code: 296-328



- ✕ Suitable for internal use only
- ✕ G.657.A2 bend Insensitive
- ✕ Sequential meter mark
- ✕ Rodant resistant
- ✕ Cut to length service
- ✕ 25 year warranty
- ✕ Euroclass: B2ca-s1a,d0,a1

## Product Overview

Excel Enbeam OS2 distribution cables have been designed specifically for internal applications. The single mode fibre is G.657.A2 compliant and offers OS2 performance and OS1 backwards compatibility. The cables are constructed using multiple buffered fibres from 4 to 24 coloured 900 µm fibres surrounded by aramid yarn around a central FRP strength member. This allows the cable to be used in internal applications with a Euroclass rating of B2ca.

## Product Specifications

| Feature   | Values            |
|---|-------------------|
| Number of Cores                                       | 24                |
| Type of tube  | Tight             |
| Number of fibres per tube                             | 24                |
| Fibre type  | Single mode 9/125 |
| Category  | OS2               |
| Outer sheath material                                 | LSZH              |
| Outer sheath colour                                   | Black             |
| Reaction-to-fire class according to EN 13501-6        | B2ca              |
| Smoke development class according to EN 13501-6       | s1a               |
| Euro class flaming droplets/particles according to EN | d0                |

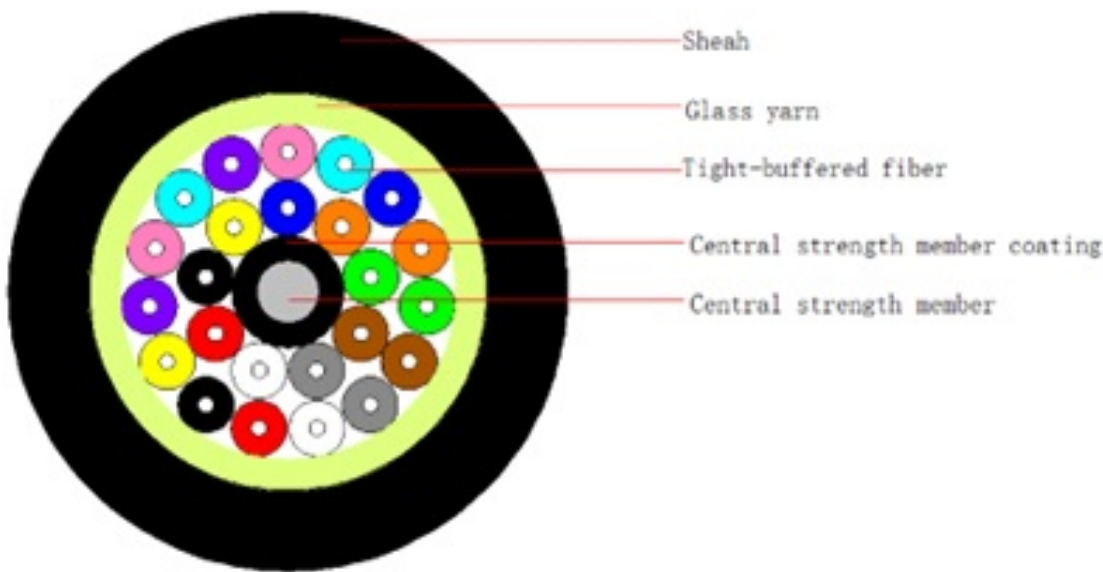
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|  |        |
|--|--------|
| 13501-6                                    |        |
| Euro class acidity according to EN 13501-6 | a1     |
| Outer diameter approx.                     | 9.5 mm |

Product drawings



Additional specifications

| Feature                    | Value        |                  |
|----------------------------|--------------|------------------|
| Tensile strength           | Long term    | 400 N            |
|                            | Short term   | 1320 N           |
| Crush resistance           | Long term    | 300 N/m          |
|                            | Short term   | 1000 N/m         |
| Temperature performance    | Installation | -5°C to +70°C    |
|                            | Operation    | -20°C to +70°C   |
|                            | Storage      | -40°C to +70°C   |
| Number of fibre            | 45508        |                  |
| Peripheral strength member | E Glass      |                  |
| Central strength member    | GFRP         |                  |
| Outer sheath               | Thickness    | 1.0 mm (Nominal) |

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|                                      | Material   | LSZH          |
|--------------------------------------|------------|---------------|
| Bending radius                       | Short term | 20 x Diameter |
|                                      | Long term  | 10 x Diameter |
| Attenuation                          | @1310 nm   | ≤ 0.40 dB/km  |
|                                      | @1550 nm   | ≤ 0.30 dB/km  |
| Core cladding concentricity error    |            | ≤ 0.5 µm      |
| Cladding diameter                    |            | 125 ± 07 µm   |
| Cladding non-circularity             |            | ≤ 1 %         |
| Coating diameter                     |            | 250 ± 15 µm   |
| Coating-cladding concentricity error |            | ≤ 12.5        |
| Mode field diameter (MFD)            |            | 8.6-9.2       |

## Standards

| Applicable standard      | Subject  |
|--------------------------|--|
| IEC 60794-2-20:2013      | Optical fibre cables - Part 2-20: Indoor cables - Family specification for multi-fibre optical cables  |
| 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  |
| IEC 60793-1-1:2022       | Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance  |
| IEC 60793-2-10:2017      | Sectional specification for A1 multimode fibres  |
| 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   |

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Item Code: 296-328



|  |   |
|--|---|
| IEC 60793-1-41:2010                        | Optical fibres - Part 1-41: Measurement methods and test procedures – Bandwidth   |
| ITU G.651.1                                | Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network  |
| 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   |
| RoHS-II/-III (2011/65/EU & 2015/863): 2023 | Our products, demonstrate full adherence to the regulatory stipulations of the EU Directive 2011/65/EU (RoHS-II) and its corresponding delegated directive 2015/863 (RoHS-III). |
| WFD: 2023                                  | Compliant to Waste Framework Directive  |
| SCIP: 2023                                 | Compliant - Does Not Contain Substances of Concern In articles as such or in complex objects (Products)   |
| POPs (EU) No 2019/1021                     | EU Regulation for the restriction of Persistent Organic Pollutants.   |

## Part Number Table

| Part Number | Description   |
|-------------|---|
| 296-324     | Excel Enbeam OS2 Tight Buffered G.657.A2 12 Core Internal Cable LSOH B2ca Black |
| 296-326     | Excel Enbeam OS2 Tight Buffered G.657.A2 16 Core Internal Cable LSOH B2ca Black |
| 296-328     | Excel Enbeam OS2 Tight Buffered G.657.A2 24 Core Internal Cable LSOH B2ca Black |

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

Contact us at [sales@excel-networking.com](mailto:sales@excel-networking.com)



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