

# Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 3 m

Item Code: 202-503

**excel**  
without compromise.



✕ Available in OM3/OM4/OS2

✕ 100% Optically Tested

✕ Low Loss Connectors

✕ Very small 2mm diameter cable

✕ Easy polarity change

✕ 25 Year system warranty

## Product Overview

Excel's range of LC Uniboot patch cords provide excellent performance in a compact design, using 2 mm round cable containing 2 x 600 micron diameter fibres, which are ideal in high density applications. They are available in a choice of OM3, OM4 or OS2 bend-insensitive fibre.

These patch cords are available in two versions - standard uniboot and pull-tab version. Both versions allow for easy polarity changing.

## Product Specifications

| Feature                            | Values        |
|------------------------------------|---------------|
| Fibre type                         | Single mode   |
| Category                           | OS2           |
| Number of Cores                    | 2             |
| Outer diameter sheath single fibre | 2 mm          |
| Cable type                         | Duplex        |
| Length                             | 3 m           |
| Type of connector connection 1     | LC (Pull Tab) |
| Type of connector connection 2     | LC (Pull Tab) |
| Outer sheath colour                | Yellow        |
| Strain relief boot                 | Push-on       |

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Flame retardant according to IEC 60332-1-2 yes

Low smoke (acc. IEC 61034-2) yes

## Cable specifications

| Features                     | Values              |
|------------------------------|---------------------|
| Cable Construction           | Round Duplex        |
| No. of Fibres                | 2                   |
| Cable Nominal Diameter       | 2.0 mm              |
| Colour                       | Yellow              |
| Strength members             | Aramid Yarn         |
| Temperature range            | -20 °C to +70 °C    |
| Connector Material           | Composite           |
| Minimum bend radius (loaded) | 10 x cable diameter |
| Connector Ferrule            | 1.25 mm Ceramic     |
| Ferrule End Face             | UPC Polish          |
| Connector Insertion Loss     | Max. 0.3 dB         |

## Fibre specifications

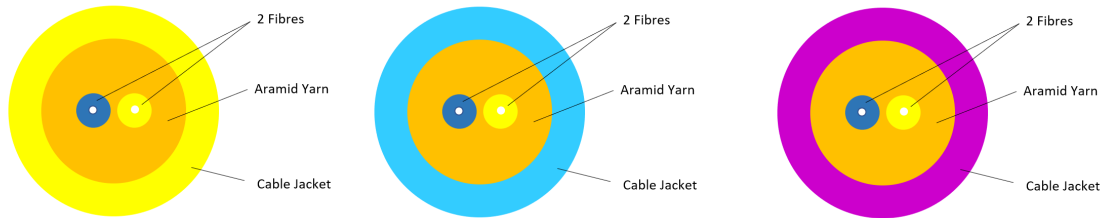
| Features                   | OS2                  |
|----------------------------|----------------------|
| Fibre Attenuation @ 1310nm | Less than 0.35 dB/km |
| Fibre Attenuation @ 1550nm | Less than 0.20 dB/km |
| Connector IL - Typical     | 0.15 dB              |
| Connector IL - Max         | 0.3 dB               |
| Connector Return Loss      | Less than -50 dB     |

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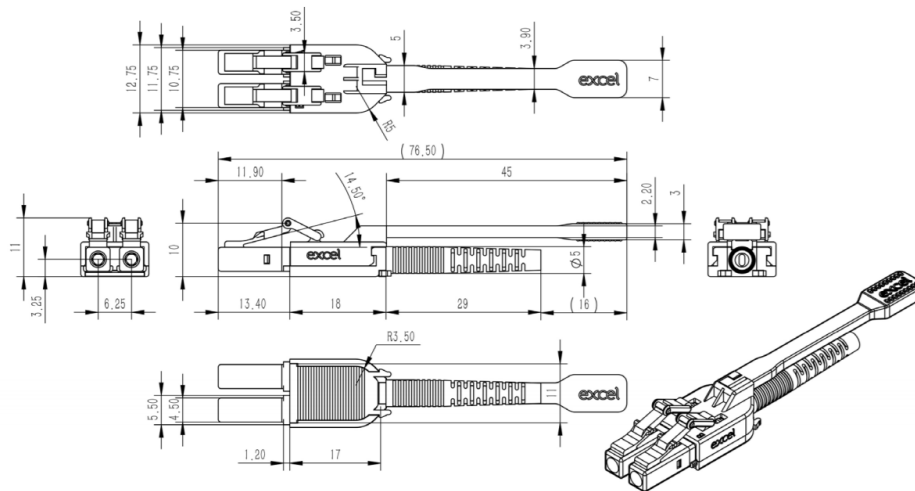
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## Cross-section diagram



## Product drawing



## Standards

| Applicable standard           | Detail  |
|-------------------------------|---|
| BS EN 60332-1-2:2004+A11:2016 | 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 60793-1-1:2022            | Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance   |
| IEC 60793-2:2015              | Optical fibres - Part 2: Product specifications - General   |
| 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  |

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|  |   |
|--|---|
|  | 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  |
| IEC 60793-1-31:2010                        | Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile Strength  |
| ITU-T G.652:2016                           | Characteristics of a single-mode optical fibre and cable  |
| ITU-T G.657:2016                           | Characteristics of a bending-loss insensitive single-mode optical fibre and cable   |
| EN 50173-1:2018                            | Information technology. Generic cabling systems - General requirements  |
| EN 50173-2:2007 + A1:2010                  | Information technology. Generic cabling systems - Office premises   |
| IEC 61754-1:2013                           | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 1: General and guidance  |
| IEC 61754-2:1996                           | Fibre optic connector interfaces - Part 2: Type BFOC/2,5 connector family   |
| IEC 61754-4:2013                           | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family  |
| IEC 61754-4-100:2015                       | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces |
| IEC 61754-4-100:2015                       | Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4-100: Type SC connector family - Simplified receptacle SC-PC connector interfaces |
| ISO/IEC 11801-1:2017                       | Information technology - Generic cabling for customer premises: Part 1 General Requirements   |
| 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.   |

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## Part Number Table

| Part Number | Description  |
|-------------|--|
| 202-500     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 0.5 m |
| 202-501     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 1 m   |
| 202-502     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 2 m   |
| 202-503     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 3 m   |
| 202-505     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 5 m   |
| 202-510     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 10 m  |
| 202-515     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 15 m  |
| 202-520     | Excel Enbeam OS2 Fibre Optic Patch Lead Pull Tab LC-LC Singlemode 9/125 DX LS0H Yellow 20 m  |

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

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