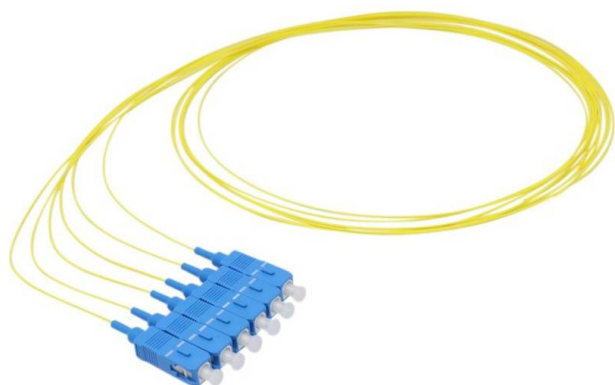


Excel Enbeam Fibre Pigtail OS2 9/125 SC/UPC Yellow 1 m (12-Pack)

Item Code: 200-649



✕ G.657.A2 Compliant

✕ Choice of lengths

✕ Choice of connectors

✕ Each cable is individually packaged and labelled

✕ Test Certificate with each cable

✕ RoHS Compliant

Product Overview

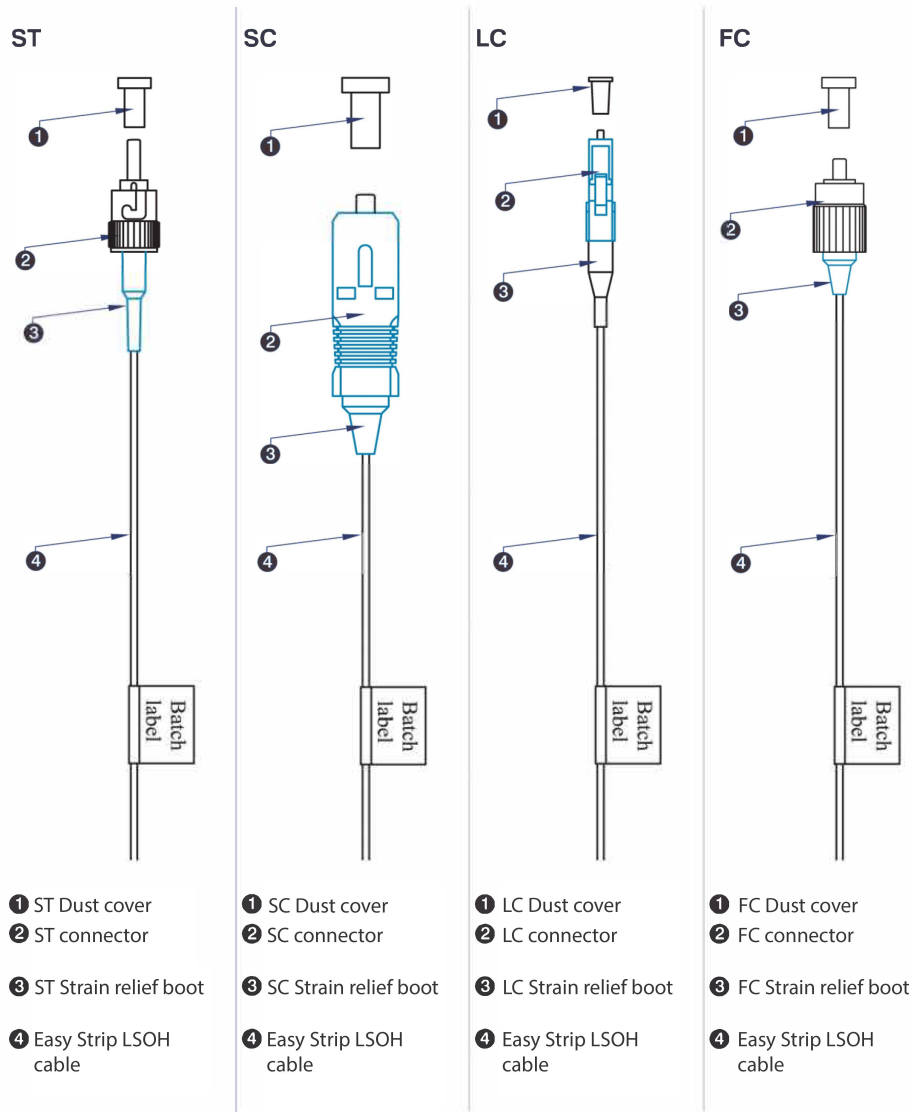
Excel singlemode fibre optic pigtails are manufactured from the highest quality 900 micron optical fibre, terminated with ceramic ferrule connectors of various types. To assist in fast cable preparation and splicing semi tight buffered, easy strip, cable is used as standard. Cable preparation, termination and testing is carried out to strictly managed procedures in an Excel approved, ISO9001 registered manufacturing facility.

Each pigtail has a strain relief boot to prolong and maintain performance levels of the assembly. A short distance from the connector a label containing a unique batch number is fixed to cable for quality and traceability purposes.

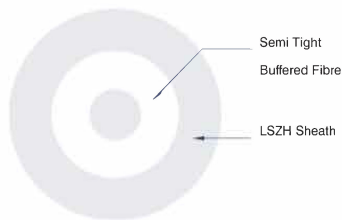
Product Specifications

| Feature | Values |
|--------------------|-------------|
| Fibre type | Single mode |
| Category | OS2 |
| Length | 1 m |
| Type of connector | SC |
| APC-type | no |
| Colour | Yellow |
| Strain relief boot | Push-on |

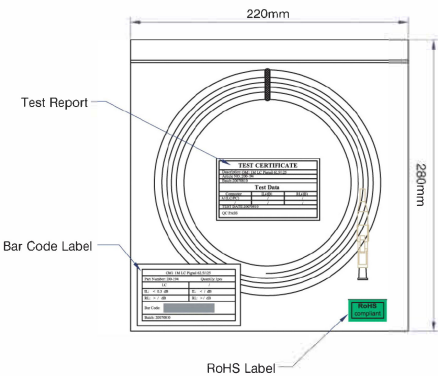
Product schematics



Cable Profile



Packaging



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Fibre specifications

| Features | Values |
|---|-------------------------------|
| Mode Field diameter at 1310nm | 8.4 - 9.2µm |
| Mode Field diameter at 1550nm | 9.3-10.3µm |
| Cladding diameter | 125.0 ± 0.7µm |
| Cladding Non-circularity | ≤ 0.7% |
| Primary Coating diameter | 235 - 245µm |
| Coating-Cladding Concentricity Error | ≤ 12µm |
| Coating Non-circularity | ≤ 6.0% |
| Core-Cladding Concentricity Error | ≤0.5µm |
| Max. attenuation at 1310nm | ≤0.35 dB/km |
| Max. attenuation at 1383nm | ≤0.35 dB/km |
| Max. attenuation at 1460nm | ≤0.25 dB/km |
| Max. attenuation at 1490nm | ≤0.23 dB/km |
| Max attenuation at 1550nm | ≤0.21 dB/km |
| Max attenuation at 1625nm | ≤0.23 dB/km |
| PMD (typical value) | 0.04 ps/km |
| Cut-off wavelength | 1260nm |
| Zero dispersion wavelength | 1300-1324 nm |
| Zero dispersion slope | ≤0.092 ps/nm ² .km |
| Refractive Index at 1310nm | 1.466 |
| Refractive Index at 1550nm | 1.467 |
| Macro-Bend Loss - 10 turns, 15mm radius, 1625nm | ≤0.03dB |
| Macro-Bend Loss - 10 turns, 15mm radius, 1550nm | ≤0.1dB |
| Macro-Bend Loss - 1 turn, 10mm radius, 1550nm | ≤0.1dB |
| Macro-Bend Loss - 1 turn, 10mm radius, 1625nm | ≤0.2dB |
| Macro-Bend Loss - 1 turn, 7.5mm radius, 1550nm | ≤0.5dB |
| Macro-Bend Loss - 1 turn, 7.5mm radius, 1625nm | ≤1.0dB |

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Cable specifications

| Features | Values | ST Assemblies | SC Assemblies | LC Assemblies |
|-----------------------------------|---------------------|-------------------------|-------------------------|--------------------------|
| Construction | Semi-Tight Buffered | | | |
| No. of Fibres | 1 | | | |
| Diameter | 900 micron | | | |
| Temperature range | -20C to +70C | | | |
| Connector Material | | Nickel plated Brass | Composite | Composite |
| Minimum bend radius | 10 x cable diameter | | | |
| Connector Ferrule | | 2.5mm Zirconium ceramic | 2.5mm Zirconium ceramic | 1.25mm Zirconium ceramic |
| Connector Insertion Loss | Max. 0.3dB | | | |
| Connector Return Loss (Multimode) | Max. -30dB | | | |
| Ferrule End Face (Singlemode UPC) | Max. -50dB | | | |
| Ferrule End Face (Singlemode APC) | Max. -60dB | | | |

Standards

| Applicable standard | Detail |
|---------------------|---|
| IEC 60793-1-1:2017 | 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 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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| | |
|---------------------------|---|
| IEC 60793-1-31:2010 | Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile Strength |
| ITU-T G652.1:2016 | Characteristics of a 9/125 µm multimode graded index optical fibre cable for the optical access network |
| EN 50173-1:2018 | Information technology. Generic cabling systems - General requirements |
| EN 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 |
| RoHS | Compliant to the Restriction of Hazardous Substances |
| ANSI/TIA 568-3.D | Optical Fiber Cabling and Components Standard |
| ISO/IEC 11801-1:2017 | Information technology - Generic cabling for customer premises: Part 1 General Requirements |
| WFD | Compliant to Waste Framework Directive |
| SCIP | Compliant - Does Not Contain Substances of Concern in Products |

Part Number Table

| Part Number | Description |
|-------------|---|
| 200-648 | Excel Enbeam Fibre Pigtail OS2 9/125 ST/UPC Yellow 1 m (12-Pack) |
| 200-649 | Excel Enbeam Fibre Pigtail OS2 9/125 SC/UPC Yellow 1 m (12-Pack) |
| 200-650 | Excel Enbeam Fibre Pigtail OS2 9/125 LC/UPC Yellow 1 m (12-Pack) |
| 200-653 | Excel Enbeam Fibre Pigtail OS2 9/125 SC/APC Clear White 1 m (12-Pack) |
| 200-654 | Excel Enbeam Fibre Pigtail OS2 9/125 FC/UPC Clear White 1 m (12-Pack) |
| 200-655 | Excel Enbeam Fibre Pigtail OS2 9/125 LC/APC Yellow 1m (12-Pack) |

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

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