



☒ 100% Optically Tested

☒ Test Certificate Included

☒ Low Loss Connectors

☒ Zirconia ceramic UPC ferrules

☒ Bend insensitive construction

☒ CIBSE TM65 Embodied Carbon: 0.505 kg CO2e

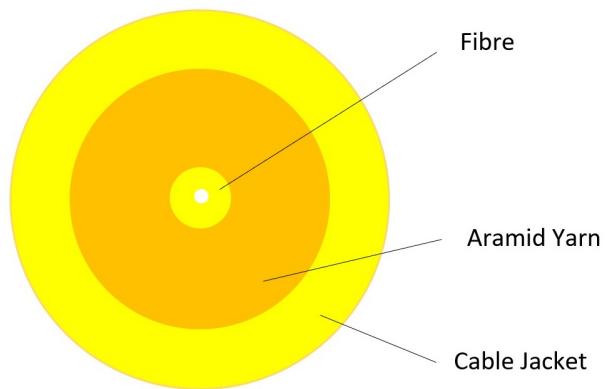
Product Overview

Excel OS2 9/125 μm simplex patch leads are manufactured from the highest quality 900 μm G657A2 buffer/jacket optical fibre, terminated with ceramic ferrule connectors. Each cable has strain relief boots to prolong and maintain performance levels of the assembly. A label containing a unique batch number is fixed to the centre of cable for quality and traceability purposes.

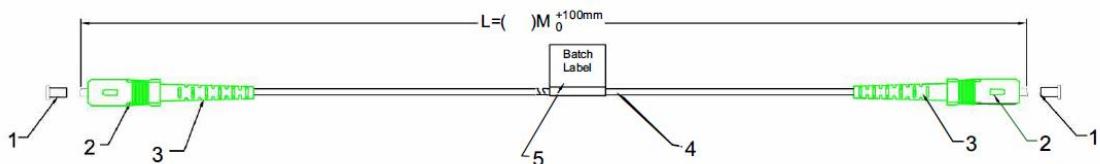
Product Specifications

| Feature | Values |
|--|-------------|
| Fibre type | Single mode |
| Category | OS2 |
| Number of Cores | 1 |
| Cable type | Simplex |
| Length | 10 m |
| Type of connector connection 1 | SC |
| Type of connector connection 2 | SC |
| Outer sheath colour | Yellow |
| Strain relief boot | Push-on |
| Flame retardant according to IEC 60332-1-2 | yes |
| Low smoke (acc. IEC 61034-2) | yes |

Cross-section diagram



Product drawing



Cable specifications

| Features | Values |
|------------------------------|--------------------------|
| Cable Construction | Simplex |
| No. of Fibres | 1 |
| Cable Dimensions | 3 mm |
| Colour | Yellow |
| Strength members | Aramid Yarn |
| Temperature range | -20 °C - +70 °C |
| Connector Material | Composite |
| Minimum bend radius (loaded) | 10 x cable diameter |
| Connector Ferrule | 2.5 mm Zirconium ceramic |

| | |
|--------------------------|------------|
| Ferrule End Face | APC Polish |
| Connector Insertion Loss | Max. 0.3dB |

Fibre specifications

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

| | |
|-------------------------------|------------|
| Coating Strip Force (typical) | 1.5N |
| Coating Strip Force (peak) | 1.3 - 8.9N |

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 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. |

Part Number Table

| Part Number | Description |
|-------------|--|
| 201-211 | Excel Enbeam OS2 Fibre Optic Patch Lead G.657.A1 SC/APC-SC/APC SM 9/125 SX Yellow 1 m |
| 201-212 | Excel Enbeam OS2 Fibre Optic Patch Lead G.657.A1 SC/APC-SC/APC SM 9/125 SX Yellow 2 m |
| 201-213 | Excel Enbeam OS2 Fibre Optic Patch Lead G.657.A1 SC/APC-SC/APC SM 9/125 SX Yellow 3 m |
| 201-214 | Excel Enbeam OS2 Fibre Optic Patch Lead G.657.A1 SC/APC-SC/APC SM 9/125 SX Yellow 5 m |
| 201-216 | Excel Enbeam OS2 Fibre Optic Patch Lead G.657.A1 SC/APC-SC/APC SM 9/125 SX Yellow 10 m |

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

E&OE. Excel is a registered trade name of Mayflex Holdings Ltd.

excel
without compromise.