# Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 5 m

**Part Code: 202-335**

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## Main Features

- 100% optically tested
- Low loss connectors
- Bend insensitive construction
- Test certificate included
- Zirconia ceramic ferrules

## Product Overview

Excel OS2 9/125 µm simplex patch leads are manufactured from the highest quality 900 µm G.657.A2 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 |
|---|---|


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| | |
|---|---|
| Fibre type | **Single mode** |
| Category | **OS2** |
| Number of Cores | **1** |
| Outer diameter sheath single fibre | **2 mm** |
| Cable type | **Simplex** |
| Length | **5 m** |
| Type of connector connection 1 | **SC** |
| Type of connector connection 2 | **LCA** |
| 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** |

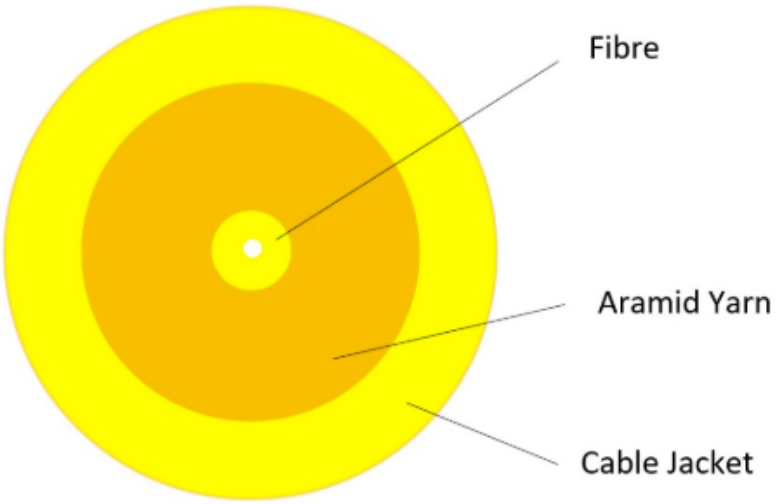
## Additional specifications

| Feature | Value |
|---|---|
| Cable Construction | **Simplex** |
| No of fibres | **1** |
| Cable Diameter | **2 mm** |
| Insertion Grade | **B** |
| Insertion Loss MAX | **0.15 dB** |
| Return Loss APC | **>65 dB** |
| Return loss UPC | **>50 dB** |
| Tensile SC | **100 N** |
| Tensile LC | **80 N** |


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| Durability | **500 matings** |
| Operating Temperature | **-20**°C - **70**°C |
| Storage Temperature | **-40**°C - **85**°C |

## Cross-section diagram




## 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 |


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| 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 |


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| 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 |
| 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). |
| UK SI 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. |

## Part Code Table

| Part Code | Description |
|---|---|
| 202-300 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/APC-LC/APC SM 9/125 SX LS0H Yellow 0.5 m** |
| 202-301 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/APC-LC/APC SM 9/125 SX** |


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| | **LS0H Yellow 1 m** |
| 202-302 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/APC-LC/APC SM 9/125 SX LS0H Yellow 2 m** |
| 202-303 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/APC-LC/APC SM 9/125 SX LS0H Yellow 3 m** |
| 202-320 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H Yellow 0.5 m** |
| 202-321 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H Yellow 1 m** |
| 202-322 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H Yellow 2 m** |
| 202-323 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 2 m** |
| 202-324 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H Yellow 3 m** |
| 202-325 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 3 m** |
| 202-326 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H Yellow 20 m** |
| 202-327 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 20 m** |
| 202-330 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 0.5 m** |
| 202-331 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 1 m** |
| 202-332 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 2 m** |
| 202-333 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 3 m** |
| 202-335 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/UPC-LC/APC SM 9/125 SX LS0H Yellow 5 m** |
| 202-340 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/APC SM 9/125 SX LS0H Yellow 0.5 m** |


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| 202-341 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/APC SM 9/125 SX LS0H Yellow 1 m** |
| 202-342 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/APC SM 9/125 SX LS0H Yellow 2 m** |
| 202-350 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/UPC SM 9/125 SX LS0H Yellow 0.5 m** |
| 202-351 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/UPC SM 9/125 SX LS0H Yellow 1 m** |
| 202-352 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm LC/UPC-LC/UPC SM 9/125 SX LS0H Yellow 2 m** |
| 202-353 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 0.5 m** |
| 202-354 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 1 m** |
| 202-356 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/UPC SM 9/125 SX LS0H Yellow 0.5 m** |
| 202-357 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/UPC SM 9/125 SX LS0H White 0.5 m** |
| 202-358 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/APC SM 9/125 SX LS0H Yellow 20 m** |
| 202-359 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/APC SM 9/125 SX LS0H White 20 m** |
| 202-361 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/APC SM 9/125 SX LS0H Yellow 1 m** |
| 202-362 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/APC SM 9/125 SX LS0H Yellow 2 m** |
| 202-363 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/APC SM 9/125 SX LS0H Yellow 3 m** |
| 202-364 | **Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-LC/UPC SM 9/125 SX LS0H Yellow 2 m** |


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