Excel Enbeam OS2 Fibre Optic Patch Lead 2 mm SC/APC-SC/APC SM 9/125 SX LS0H White 0.5 m

Part Code: 202-353

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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	**0.5 m**
Type of connector connection 1	**SCA**
Type of connector connection 2	**SCA**
Outer sheath colour	**White**
Strain relief boot	**Push-on**
Flame retardant according to IEC 60332-1-2	**yes**
Low smoke (acc. IEC 61034-2)	**yes**

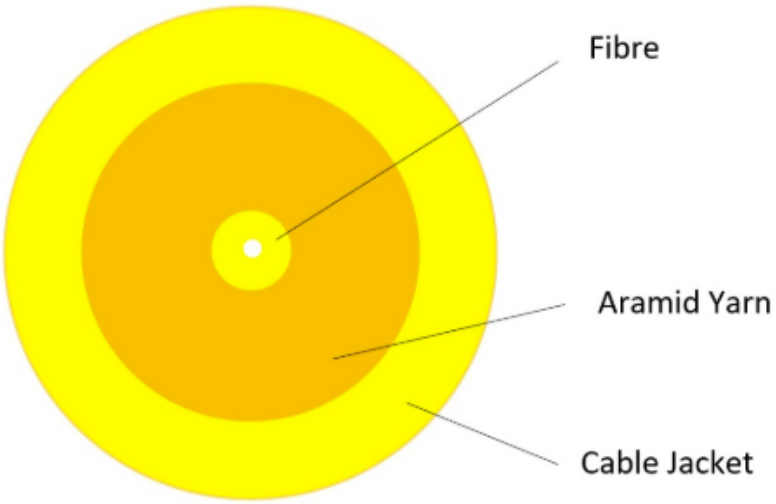
Additional specifications

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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