

Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot
LC-LC Singlemode 9/125 DX LS0H Yellow 10 m

Item Code: 202-410



- 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	10 m
Type of connector connection 1	LC (Uniboot)
Type of connector connection 2	LC (Uniboot)
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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excel
without compromise.

The image displays three cross-sectional diagrams of cables, each with a different outer jacket color: yellow, blue, and purple. Each diagram is labeled with three components: '2 Fibres' (pointing to the two small white dots in the center), 'Aramid Yarn' (pointing to the orange ring surrounding the fibers), and 'Cable Jacket' (pointing to the outermost colored ring). The labels are positioned to the right of each diagram, with lines connecting them to the corresponding parts of the cable cross-section.

Technical drawing of the EXCEL 1000 cable assembly, showing three views: front, side, and top. The drawing includes dimensions in millimeters (mm).

Front View (Top): Shows the cable assembly with a braided shield. Dimensions include a total length of 12.75 mm, a connector length of 11.75 mm, a cable length of 10.72 mm, a connector width of 19 mm, a cable diameter of $\varnothing 5$ mm, and a connector diameter of 10.5 mm. A note indicates a length of (60.4) mm for the cable section.

Side View (Middle): Shows the cable's profile. Dimensions include a total length of 11.9 mm, a connector length of 10.01 mm, a cable length of 13.4 mm, a connector width of 18 mm, a cable diameter of $\varnothing 5$ mm, and a connector diameter of 29 mm. A note indicates a length of 14.5 mm for the cable section.

Top View (Bottom): Shows the connector's internal structure. Dimensions include a total length of 16.5 mm, a connector length of 5.5 mm, a cable length of 4.47 mm, a connector width of 1.2 mm, a cable diameter of $\varnothing 5$ mm, and a connector diameter of 11 mm. A note indicates a length of 8 mm for the cable section.

Isometric View (Right): Shows the cable assembly with a braided shield and a connector, labeled "EXCEL 1000".

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

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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
202-400	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 0.5 m
202-401	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 1 m
202-402	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 2 m
202-403	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 3 m
202-405	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 5 m
202-410	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 10 m
202-415	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot LC-LC Singlemode 9/125 DX LS0H Yellow 15 m
202-420	Excel Enbeam OS2 Fibre Optic Patch Lead Uniboot 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.

Contact us at sales@excel-networking.com



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