

Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot
LC-LC Multimode 50/125 DX LS0H Violet 10 m

Item Code: 204-410



- Available in OM3/OM4/OS2
- 100% Optically Tested
- Low Loss Connectors
- Very small 2 mm diameter cable
- Easy polarity change
- 25 Year system warranty
- CIBSE TM65 Embodied Carbon: 0.263 kg CO2e

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	Multi mode 50/125
Category	OM4
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)

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Outer sheath colour	Violet
Strain relief boot	Push-on
Flame retardant according to IEC 60332-1-2	yes
Low smoke (acc. IEC 61034-2)	yes

Cable specifications

Features	OM3	OM4
Cable Construction	Round Duplex	Round Duplex
No. of Fibres	2	2
Cable Nominal Diameter	2.0mm	2.0mm
Colour	Aqua	Heather Violet
Strength members	Aramid Yarn	Aramid Yarn
Temperature range	-20C to +70C	-20C to +70C
Connector Material	Composite	Composite
Minimum bend radius (loaded)	10 x cable diameter	10 x cable diameter
Connector Ferrule	1.25mm Ceramic	1.25mm Ceramic
Ferrule End Face	PC Polish	PC Polish
Connector Insertion Loss	Max. 0.3dB	Max. 0.3dB

Fibre specifications

Features	Values
Fibre Attenuation @ 850nm	Less than 3.5dB/km
Fibre Attenuation @ 1300nm	Less than 1.5dB/km
Connector IL - Typical	0.15dB
Connector IL - Max	0.3dB
Connector Return Loss	Less than -30dB

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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 consistent across all three diagrams, indicating a standard internal structure regardless of the jacket color.

Technical drawing of the EXCEL 10000 cable assembly, showing three views: front, side, and top. Dimensions are given in mm.

Front View (Top):

- Overall length: 12.75
- Distance from front to first connector: 11.75
- Distance between connectors: 10.72
- Distance from second connector to end: 5.2
- Overall width: 19
- Distance from front to first connector (alternative): 10.5

Side View (Middle):

- Overall length: 60.4
- Distance from front to first connector: 11.9
- Distance from front to second connector: 10.01
- Distance from front to end: 13.4
- Distance from second connector to end: 18
- Distance from end to end: 29
- Radius: R3.5
- Angle: 14.5°
- Overall width: Ø5

Top View (Bottom):

- Distance from front to first connector: 5.5
- Distance from front to second connector: 4.47
- Distance from front to end: 1.2
- Distance from second connector to end: 16.5
- Distance from end to end: 8
- Distance from end to end: 10
- Distance from end to end: 11

Other Views:

- Front view (Left): Shows the connector details with dimensions 3.25 and 6.25.
- Front view (Right): Shows the connector details with dimensions 11 and 6.25.
- Front view (Bottom): Shows the connector details with dimensions 11 and 6.25.

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 G.651.1	Characteristics of a 50/125 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-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
203-400	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 0.5 m
203-401	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 1 m

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203-402	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 2 m
203-403	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 3 m
203-405	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 5 m
203-410	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 10 m
203-415	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 15 m
203-420	Excel Enbeam OM3 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Aqua 20 m
204-400	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 0.5 m
204-401	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 1 m
204-402	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 2 m
204-403	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 3 m
204-405	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 5 m
204-410	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 10 m
204-415	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 15 m
204-420	Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 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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