

# Excel Enbeam OM4 Fibre Optic Patch Lead Uniboot LC-LC Multimode 50/125 DX LS0H Violet 5 m

excel  
without compromise.

Part Code: 204-405

sales@excel-networking.com  
excel-networking.com



## Main Features

- / Available in OM3/OM4/OS2
- / Low Loss Connectors
- / Easy polarity change
- / 100% Optically Tested
- / Very small 2mm diameter cable
- / 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

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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	5 m
Type of connector connection 1	LC (Uniboot)
Type of connector connection 2	LC (Uniboot)
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

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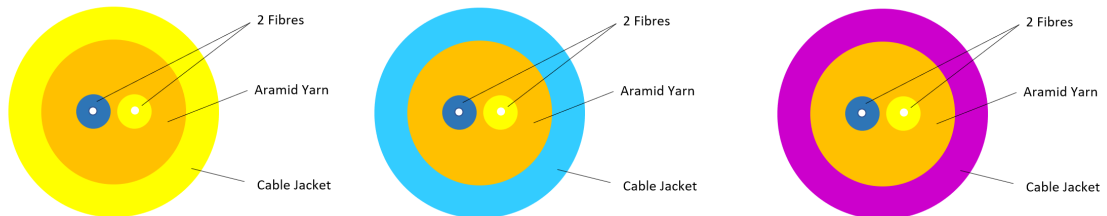
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Connector Ferrule	1.25mm Ceramic	1.25mm Ceramic
Ferrule End Face	PC Polish	PC Polish
Connector Insertion Loss	Max. 0.3dB	Max. 0.3dB

## 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

### Cross-section diagram

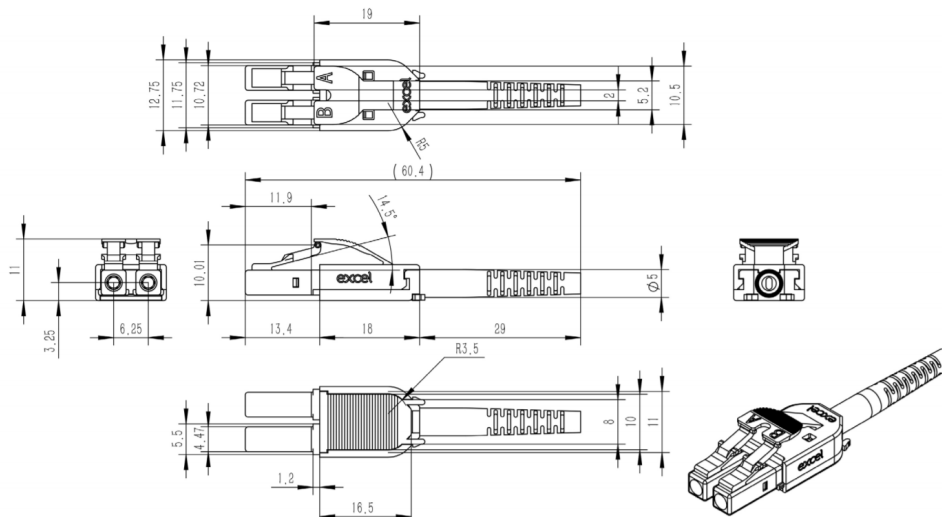


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## Product drawing



## 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

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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 $\mu\text{m}$ 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
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 —

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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
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
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

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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