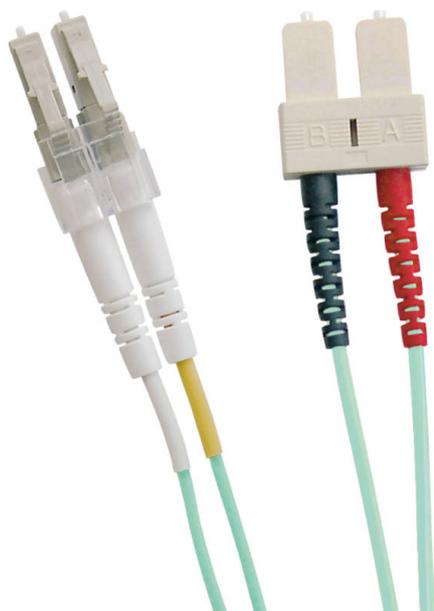


Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 1m

Item Code: 200-054

excel
without compromise.



✕ Test Certificate Included

✕ Low Loss Connectors

✕ Zirconia Ceramic PC Ferrules

✕ Polarity Changeable (Duplex Connectors)

✕ Bend insensitive construction

✕ 25 Year system warranty

Product Overview

Excel OM3 50/125µm duplex patch leads are manufactured from the highest quality 900µm buffer/jacket optical fibre, terminated with ceramic ferrule connectors.

Each cable has strain relief boots to prolong and maintain performance levels of the assembly, transmit and receive 'legs' of each duplex cable are identified by means of ring type cable marker fixed to each end the assembly. A short distance from these identification rings heat shrink is applied to maintain an easy to manage bonded two fibre cable, finally a label containing a unique batch number is fixed to the centre of cable for quality and traceability purposes.

Product Specifications

Feature	Values
Fibre type	Multi mode 50/125
Category	OM3
Number of Cores	2
Outer diameter sheath single fibre	2 mm
Cable type	Duplex
Length	1 m
Type of connector connection 1	LC
Type of connector connection 2	SC
Outer sheath colour	Aqua
Strain relief boot	Push-on

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Flame retardant	In accordance with EN 60332-1-2
Low smoke	In accordance with IEC/EN 61034-2

Cable specifications

Features	Values	ST Assemblies	SC Assemblies	LC Assemblies
Cable Construction	Duplex zip-cord			
No. of Fibres	2			
Cable Dimensions		2.8 x 5.7mm	2.8 x 5.7mm	2.0 x 4.0mm
Colour	Aqua			
Strength members	Aramid Yarn			
Temperature range	-20C to +70C			
Connector Material		Nickel plated Brass	Composite	Composite
Minimum bend radius (loaded)	10 x cable diameter			
Connector Ferrule		2.5mm Zirconium ceramic	2.5mm Zirconium ceramic	1.25mm Zirconium ceramic
Ferrule End Face	PC Polish			
Connector Insertion Loss	Max. 0.3dB			

Fibre specifications

Features	Values
Core diameter	50 ± 2.5µm
Core Non-circularity	≤5%
Core-Cladding Concentricity Error	≤1.0µm
Cladding diameter	125 ± 1.0µm
Cladding Non-circularity	≤1.0%
Primary Coating diameter	245 ± 7µm
Coating-Cladding Concentricity Error	≤10.0µm
Coating Non-circularity	≤6.0%
Secondary coating diameter	900 µm nominal
Max. attenuation at 850nm	2.4dB/km

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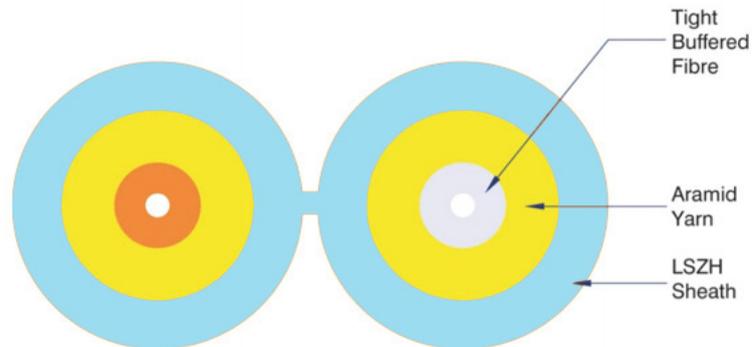
Max attenuation at 1300nm	0.6dB/km
Refractive Index at 850nm	1.482
Refractive Index at 1300nm	1.477
Bandwidth at 850nm	≥1500 MHz.km
Bandwidth at 1300nm	≥500 MHz.km
Effective Modal Bandwidth at 850nm	≥2000 MHz/km
Numerical Aperture	0.200 ±0.015
Zero Dispersion Wavelength	1295-1340nm
Macrobending Loss - 100 turns, 37.5mm Radius, 850nm	≤0.50dB
Macrobending Loss - 100 turns, 37.5mm Radius, 1300nm	≤0.50dB
Macrobending Loss - 2 turns, 15mm Radius, 850nm	≤1.0dB
Macrobending Loss - 2 turns, 15mm Radius, 1300nm	≤1.0dB
Coating Strip Force (typical)	1.5N
Coating Strip Force (peak)	1.3 - 8.9N

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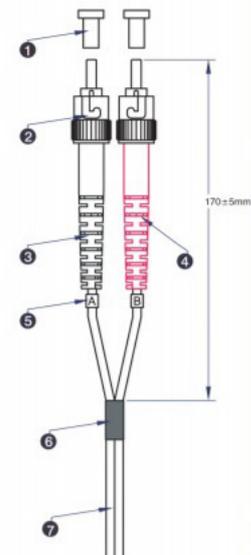


Cross-section diagram



Product Schematics

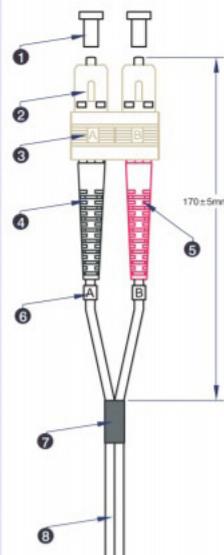
ST



- 1 ST Dust cover
- 2 ST 3.0 multimode connector*
- 3 ST 3.0 Black strain relief boot*
- 4 ST 3.0 Red strain relief boot*
- 5 Identification ring
- 6 Black heatshrink tubing
- 7 3.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable*

* 2.0 when used in hybrid cables with LC or MTRJ connectors

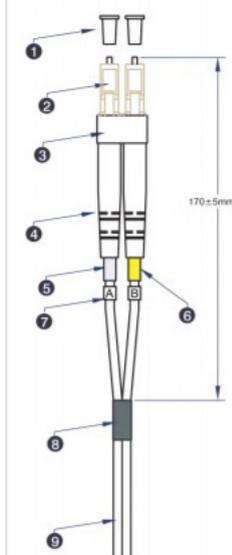
SC



- 1 SC Dust cover
- 2 SC 3.0 Beige multimode connector*
- 3 SC Beige clip
- 4 SC 3.0 Black strain relief boot*
- 5 SC 3.0 Red strain relief boot*
- 6 Identification ring
- 7 Black heatshrink tubing
- 8 3.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable*

* 2.0 when used in hybrid cables with LC or MTRJ connectors

LC



- 1 LC Dust cover
- 2 LC 2.0 multimode simplex Beige connector
- 3 LC Beige clip
- 4 LC 2.0 white boot
- 5 White heatshrink tubing
- 6 Yellow heatshrink tubing
- 7 Identification ring
- 8 Black heatshrink tubing
- 9 2.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable

Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 1m

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Standards

Applicable standard	Detail
IEC 60793-1-1:2017	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 G.651.1	Characteristics of a 50/125 µm multimode graded index optical fibre cable for the optical access network
EN 50173-1:2011	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	Restriction of Hazardous Substances - Compliant

Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 1m

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Part Number Table

Part Number	Description
200-001	Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 Duplex LS0H Aqua 1m
200-002	Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 Duplex LS0H Aqua 2m
200-003	Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 Duplex LS0H Aqua 3m
200-004	Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 Duplex LS0H Aqua 5m
200-005	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 1m
200-006	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 2m
200-007	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 3m
200-008	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 5m
200-009	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 10m
200-011	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 15m
200-012	Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 Duplex LS0H Aqua 20m
200-013	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 1m
200-014	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 2m
200-015	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 3m
200-016	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 5m
200-017	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 10m
200-018	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 15m
200-019	Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 Duplex LS0H Aqua 20m
200-043	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 1m

Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 1m

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200-044	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 2m
200-046	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 3m
200-048	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 5m
200-050	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 10m
200-052	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 15m
200-053	Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H Aqua 20m
200-054	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 1m
200-055	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 2m
200-056	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 3m
200-057	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 5m
200-058	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 10m
200-059	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 15m
200-061	Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 Duplex LS0H Aqua 20m
200-062	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 1m
200-063	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 2m
200-064	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 3m
200-070	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 5m
200-071	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 10m
200-073	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 15m
200-075	Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 Duplex LS0H Aqua 20m

Enbeam OM3 Fibre Optic Patch Lead LC-SC
Multimode 50/125 Duplex LS0H Aqua 1m

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202-176

Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 Duplex LS0H
Aqua 30m

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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