

✗ Test Certificate Included

✗ Low Loss Connectors

✗ Zirconia ceramic UPC ferrules

✗ Polarity Changeable (Duplex Connectors)

✗ Bend insensitive construction

✗ 25 Year system warranty

## Product Overview

Excel OM3 50/125  $\mu\text{m}$  duplex patch leads are manufactured from the highest quality 900  $\mu\text{m}$  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	20 m
Type of connector connection 1	LC
Type of connector connection 2	ST
Outer sheath colour	Aqua
Strain relief boot	Push-on

Flame retardant according to IEC 60332-1-2 yes

Low smoke (acc. IEC 61034-2) yes

### 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

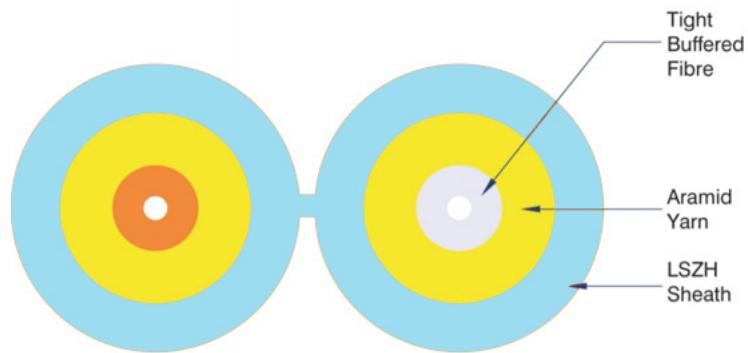
# Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 20 m

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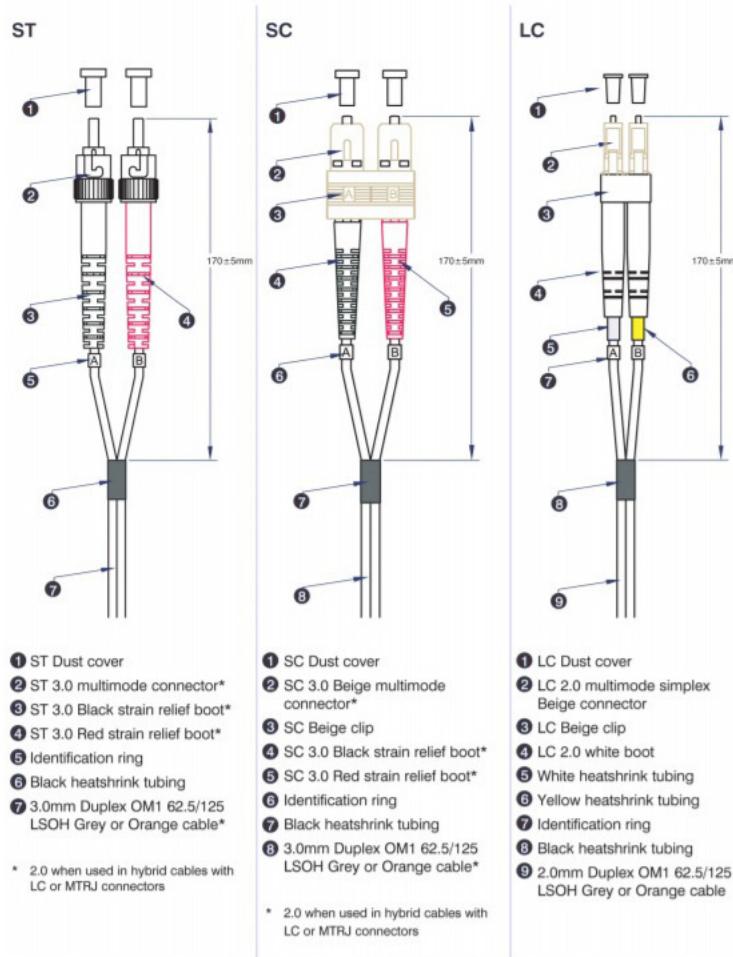


Max attenuation at 1300nm	0.6dB/km
Refractive Index at 850nm	1.482
Refractive Index at 1300nm	1.477
Bandwidth at 850nm	≥1500 MHz.km
Bandwidth at 1300nm	≥500 MHz.km
Effective Modal Bandwidth at 850nm	≥2000 MHz/km
Numerical Aperture	0.200 ±0.015
Zero Dispersion Wavelength	1295-1340nm
Macrobending Loss - 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

### Cross-section diagram



### Product Schematics



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## 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
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).

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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
200-001	Excel Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Aqua 1 m
200-002	Excel Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Aqua 2 m
200-003	Excel Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Aqua 3 m
200-004	Excel Enbeam OM3 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Aqua 5 m
200-005	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 1 m
200-006	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 2 m
200-007	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 3 m
200-008	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 5 m
200-009	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 10 m
200-011	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 15 m
200-012	Excel Enbeam OM3 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Aqua 20 m
200-013	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 1 m
200-014	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 2 m
200-015	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 3 m
200-016	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 5 m

# Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 20 m

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200-017	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 10 m
200-018	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 15 m
200-019	Excel Enbeam OM3 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Aqua 20 m
200-043	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 1 m
200-044	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 2 m
200-046	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 3 m
200-048	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 5 m
200-050	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 10 m
200-052	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 15 m
200-053	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 20 m
200-054	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 1 m
200-055	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 2 m
200-056	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 3 m
200-057	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 5 m
200-058	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 10 m
200-059	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 15 m
200-061	Excel Enbeam OM3 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Aqua 20 m
200-062	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 1 m
200-063	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 2 m
200-064	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 3 m

# Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 20 m

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200-070	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 5 m
200-071	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 10 m
200-073	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 15 m
200-075	Excel Enbeam OM3 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Aqua 20 m
202-176	Excel Enbeam OM3 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Aqua 30 m

Excel is a world class premium performing end to end infrastructure solution designed, Manufactured, supported and delivered without compromise.

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