

Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 10 m

Item Code: 200-209

excel
without compromise.



Product Overview

- CIBSE TM65 Embodied Carbon: 1.547 kg CO2e

Product Specifications

Feature	Values
Fibre type	Multi mode 50/125
Category	OM2
Number of Cores	2
Outer diameter sheath single fibre	3 mm
Cable type	Duplex
Length	10 m
Type of connector connection 1	ST
Type of connector connection 2	ST
Outer sheath colour	Orange
Strain relief boot	Push-on
Flame retardant according to IEC 60332-1-2	yes
Low smoke (acc. IEC 61034-2)	yes

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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	Orange			
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	≤1.5µm
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	2.3dB/km
Max attenuation at 1300nm	0.6dB/km
Refractive Index at 850nm	1.482
Refractive Index at 1300nm	1.477

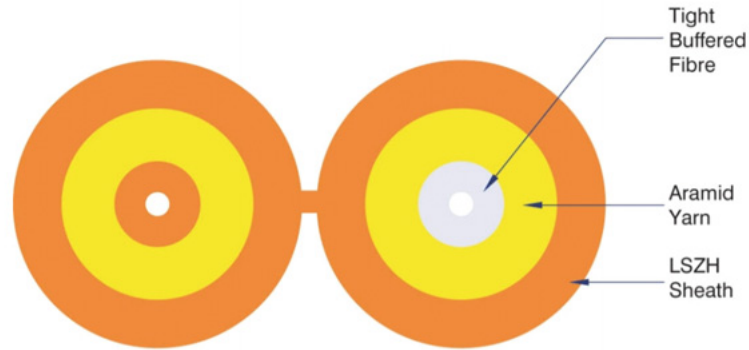
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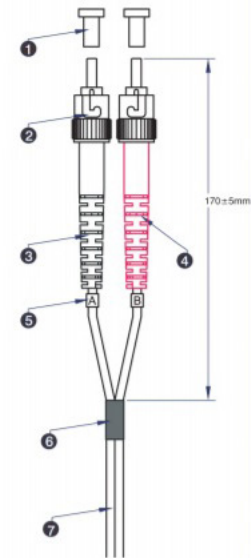
Bandwidth at 850nm	500 MHz.km
Bandwidth at 1300nm	500 MHz.km
Numerical Aperture	0.200 ±0.015
Zero Dispersion Wavelength	1295-1340nm
Macrobending Loss - 2 turns, 15mm Radius, 850nm	≤0.10dB
Macrobending Loss - 2 turns, 15mm Radius, 1300nm	≤0.30dB
Macrobending Loss - 2 turns, 7.5mm Radius, 850nm	≤0.2dB
Macrobending Loss - 2 turns, 7.5mm Radius, 1300nm	≤0.5dB
Coating Strip Force (typical)	1.5N
Coating Strip Force (peak)	1.3 - 8.9N

Cross-section diagram



Product Schematics

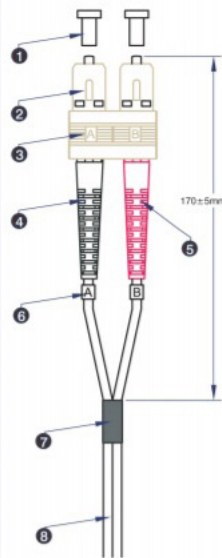
ST



- 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

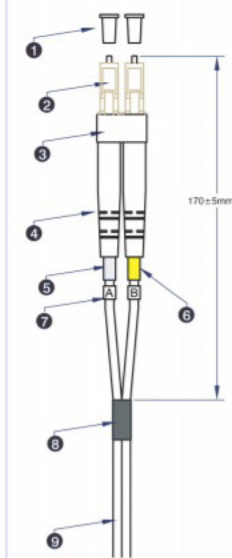
SC



- 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 Yellow heatshrink tubing
- 6 Identification ring
- 7 Black heatshrink tubing
- 8 2.0mm Duplex OM1 62.5/125 LSOH Grey or Orange cable

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
200-093	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 10 m
200-094	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 15 m
200-095	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 20 m
200-168	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 1 m
200-169	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 2 m
200-170	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 3 m
200-171	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 5 m
200-172	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 1 m
200-173	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 2 m
200-174	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 3 m
200-175	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 5 m
200-176	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 1 m
200-177	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 2 m
200-178	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 3 m
200-179	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 5 m

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200-180	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 10 m
200-200	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 1 m
200-202	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 2 m
200-204	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 3 m
200-206	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 5 m
200-209	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 10 m
200-216	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 1 m
200-218	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 2 m
200-219	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 15 m
200-220	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 3 m
200-222	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 5 m
200-224	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 1 m
200-226	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 2 m
200-227	Excel Enbeam OM2 Fibre Optic Patch Lead ST-SC Multimode 50/125 DX LS0H Orange 10 m
200-228	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 3 m
200-229	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 5 m
200-236	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 10 m
200-237	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 15 m
200-238	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 20 m
200-265	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 10 m

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200-266	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 15 m
200-267	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 20 m
200-286	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 15 m
200-287	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 20 m
200-533	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 20 m
202-171	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 0.5 m
202-174	Excel Enbeam OM2 Fibre Optic Patch Lead LC-LC Multimode 50/125 DX LS0H Orange 30 m
202-178	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 0.5 m
202-181	Excel Enbeam OM2 Fibre Optic Patch Lead LC-SC Multimode 50/125 DX LS0H Orange 30 m
202-184	Excel Enbeam OM2 Fibre Optic Patch Lead LC-ST Multimode 50/125 DX LS0H Orange 0.5 m
202-191	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 0.5 m
202-194	Excel Enbeam OM2 Fibre Optic Patch Lead SC-SC Multimode 50/125 DX LS0H Orange 30 m
202-197	Excel Enbeam OM2 Fibre Optic Patch Lead ST-ST Multimode 50/125 DX LS0H Orange 0.5 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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