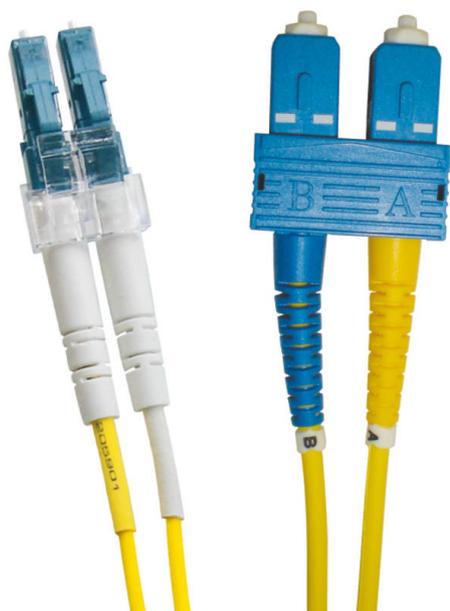


Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 2m

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excel
without compromise.



✕ 100% Optically Tested

✕ Test Certificate Included

✕ Low Loss Connectors

✕ Zirconia Ceramic PC Ferrules

✕ Polarity Changeable (Duplex Connectors)

✕ Bend insensitive construction

Product Overview

Excel OS2 9/125µm 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	Single mode
Category	OS2
Number of Cores	2
Outer diameter sheath single fibre	2 mm
Cable type	Duplex
Length	2 m
Type of connector connection 1	LC
Type of connector connection 2	SC
Outer sheath colour	Yellow
Strain relief boot	Push-on

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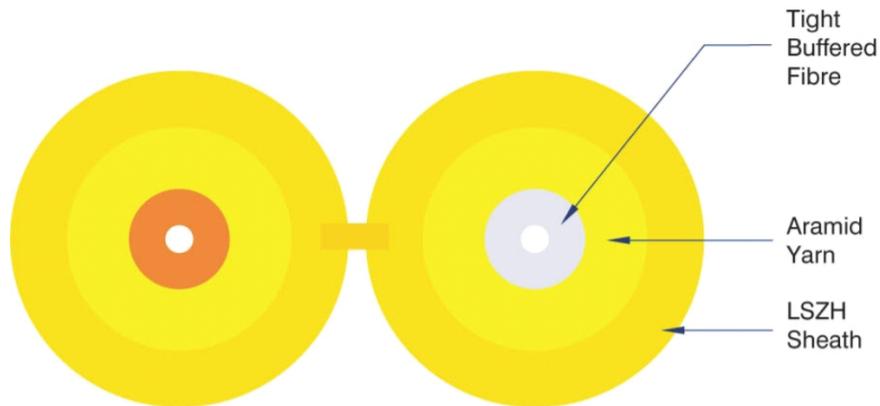
Flame retardant

In accordance with EN 60332-1-2

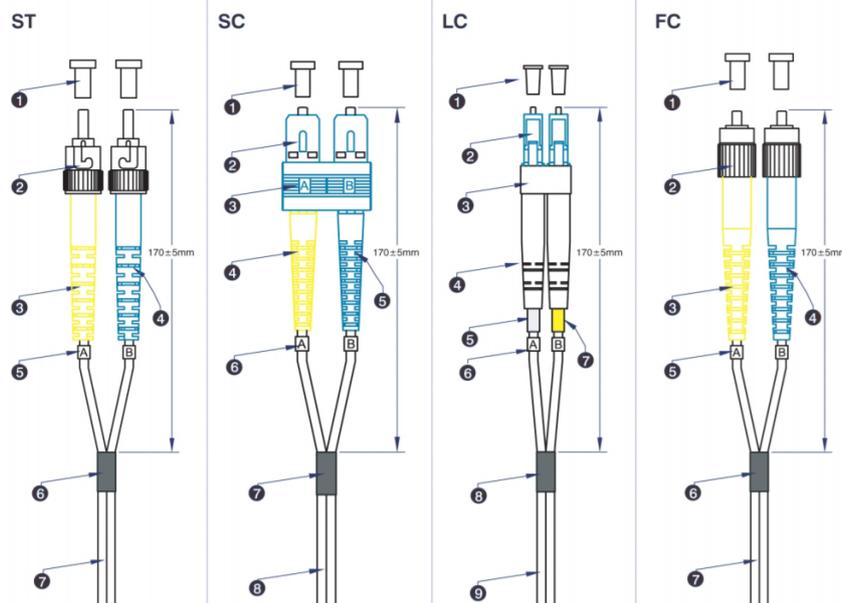
Low smoke

In accordance with IEC/EN 61034-2

Cross-section diagram



Product drawing



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Cable specifications

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

Fibre specifications

Features	Values
Mode Field diameter at 1310nm	8.4 - 9.2µm
Mode Field diameter at 1550nm	9.3-10.3µm
Cladding diameter	125.0 ± 0.7µm
Cladding Non-circularity	≤ 0.7%
Primary Coating diameter	235 - 245µm
Coating-Cladding Concentricity Error	≤ 12µm
Coating Non-circularity	≤ 6.0%
Core-Cladding Concentricity Error	≤0.5µm
Max. attenuation at 1310nm	≤0.35 dB/km
Max. attenuation at 1383nm	≤0.35 dB/km
Max. attenuation at 1460nm	≤0.25 dB/km
Max. attenuation at 1490nm	≤0.23 dB/km
Max attenuation at 1550nm	≤0.21 dB/km
Max attenuation at 1625nm	≤0.23 dB/km

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PMD (typical value)	0.04 ps/km
Cut-off wavelength	1260nm
Zero dispersion wavelength	1300-1324 nm
Zero dispersion slope	≤ 0.092 ps/nm ² .km
Refractive Index at 1310nm	1.466
Refractive Index at 1550nm	1.467
Macro-Bend Loss - 10 turns, 15mm radius, 1625nm	≤ 0.03 dB
Macro-Bend Loss - 10 turns, 15mm radius, 1550nm	≤ 0.1 dB
Macro-Bend Loss - 1 turn, 10mm radius, 1550nm	≤ 0.1 dB
Macro-Bend Loss - 1 turn, 10mm radius, 1625nm	≤ 0.2 dB
Macro-Bend Loss - 1 turn, 7.5mm radius, 1550nm	≤ 0.5 dB
Macro-Bend Loss - 1 turn, 7.5mm radius, 1625nm	≤ 1.0 dB
Coating Strip Force (typical)	1.5N
Coating Strip Force (peak)	1.3 - 8.9N

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-T G.652:2016	Characteristics of a single-mode optical fibre and cable
ITU-T G.657:2016	Characteristics of a bending-loss insensitive single-mode optical fibre and cable

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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
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
ISO/IEC 11801-1:2017	Information technology - Generic cabling for customer premises: Part 1 General Requirements
RoHS	Restriction of Hazardous Substances - Compliant

Part Number Table

Part Number	Description
200-096	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 20m
200-097	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 15m
200-098	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 10m
200-099	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 10m
200-100	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 15m
200-101	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 20m
200-102	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 10m

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200-103	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 15m
200-104	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 20m
200-105	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 15m
200-107	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 10m
200-108	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 15m
200-109	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 20m
200-201	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 10m
200-203	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 15m
200-205	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 20m
200-251	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 1m
200-252	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 2m
200-253	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 3m
200-254	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 5m
200-255	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 1m
200-256	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 2m
200-257	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 3m
200-259	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 5m
200-261	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 1m
200-262	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 2m
200-263	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 3m

Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 2m

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200-264	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 5m
200-268	Enbeam OS2 Fibre Optic Patch Lead ST-SC Singlemode 9/125 Duplex LS0H Yellow 10m
200-501	Enbeam OS2 Fibre Optic Patch Lead FC-FC Singlemode 9/125 Duplex LS0H Yellow 1m
200-502	Enbeam OS2 Fibre Optic Patch Lead FC-FC Singlemode 9/125 Duplex LS0H Yellow 2m
200-503	Enbeam OS2 Fibre Optic Patch Lead FC-FC Singlemode 9/125 Duplex LS0H Yellow 3m
200-504	Enbeam OS2 Fibre Optic Patch Lead FC-FC Singlemode 9/125 Duplex LS0H Yellow 5m
200-505	Enbeam OS2 Fibre Optic Patch Lead FC-FC Singlemode 9/125 Duplex LS0H Yellow 10m
200-511	Enbeam OS2 Fibre Optic Patch Lead FC-ST Singlemode 9/125 Duplex LS0H Yellow 2m
200-513	Enbeam OS2 Fibre Optic Patch Lead FC-ST Singlemode 9/125 Duplex LS0H Yellow 5m
200-514	Enbeam OS2 Fibre Optic Patch Lead FC-ST Singlemode 9/125 Duplex LS0H Yellow 10m
200-515	Enbeam OS2 Fibre Optic Patch Lead FC-ST Singlemode 9/125 Duplex LS0H Yellow 15m
200-517	Enbeam OS2 Fibre Optic Patch Lead FC-ST Singlemode 9/125 Duplex LS0H Yellow 1m
200-534	Enbeam OS2 Fibre Optic Patch Lead FC-SC Singlemode 9/125 Duplex LS0H Yellow 1m
200-535	Enbeam OS2 Fibre Optic Patch Lead FC-SC Singlemode 9/125 Duplex LS0H Yellow 2m
200-536	Enbeam OS2 Fibre Optic Patch Lead FC-SC Singlemode 9/125 Duplex LS0H Yellow 3m
200-537	Enbeam OS2 Fibre Optic Patch Lead FC-SC Singlemode 9/125 Duplex LS0H Yellow 5m
200-538	Enbeam OS2 Fibre Optic Patch Lead FC-SC Singlemode 9/125 Duplex LS0H Yellow 10m
200-678	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 1m
200-680	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 2m
200-682	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 3m
200-684	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H

Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 2m

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	Yellow 5m
200-686	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 1m
200-688	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 2m
200-690	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 3m
200-692	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 5m
200-694	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 1m
200-696	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 2m
200-698	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 3m
200-699	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 5m
202-172	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 0.5m
202-175	Enbeam OS2 Fibre Optic Patch Lead LC-LC Singlemode 9/125 Duplex LS0H Yellow 30m
202-179	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 0.5m
202-182	Enbeam OS2 Fibre Optic Patch Lead LC-SC Singlemode 9/125 Duplex LS0H Yellow 30m
202-185	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 0.5m
202-188	Enbeam OS2 Fibre Optic Patch Lead LC-ST Singlemode 9/125 Duplex LS0H Yellow 30m
202-192	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 0.5m
202-195	Enbeam OS2 Fibre Optic Patch Lead SC-SC Singlemode 9/125 Duplex LS0H Yellow 30m
202-198	Enbeam OS2 Fibre Optic Patch Lead ST-ST Singlemode 9/125 Duplex LS0H Yellow 0.5m

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