

Features and Benefits

Molex LS0H OS2 9/125mm tight buffered fibre cable can be used for LAN and WAN applications. The cable is suitable for indoor applications on trays and outdoors in ducts and features e-glass strength members and a UV stabilised LS0H Euroclass Eca sheath. This single mode fibre provides improved performance across the entire 1260nm to 1625nm wavelength spectrum due to its low attenuation in 1383nm water-peak region.

Commercial Standards:

Fibre:

IEC 60793-2-50 Category B.1.3
ISO/IEC 11801:2002, cat. OS1
EN 60793-2-50: Class B1.3
ISO/IEC 24702: 2006, cat. OS2; OS1 requirements are fulfilled
ITU Recommendation G.652.D – the older ITU designations A, B and C are also fulfilled
IEEE 802.3 – 2002 incl. 802.3ae
EN 50173-1:2007, cat. OS2; OS1 requirements are fulfilled

Cable:

ISO 11801 2nd edition, EN 187 000, IEC 60794-2, EN 50 173-1, IEC 60794-2-20

RoHS Compliant

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass: Eca
DoP No: MLXCES-2017-F-050
located on web
<http://www.molexc.es.co.uk/about-us/our-compliance/cpr/dop-certificates/>

Technical Information

Cable Attenuation IEC 60793-1-40

1310 nm – 1625 nm
≤ 0.39 dB/km
1550 nm
≤ 0.25 dB/km

Group index of refraction IEC 60793-1-22

1310 nm: 1.467
1550 nm: 1.468
1625 nm: 1.468

Mechanical Characteristics

Fibre: 4 - 24 tightly buffered fibres
900µm +/- 50µm
Strength member: E-Glass
Sheath: LS0H, UV stabilized



MOLEX CONNECTED ENTERPRISE SOLUTIONS

Americas
Tel: 630 969 4550
www.molexc.es.co.uk

EMEA
Tel: 44 (0)2392 205800
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APAC
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FEATURES AND SPECIFICATIONS



Fibre Optic Universal Distribution Cable Tight Buffered Indoor/ Outdoor LS0H OS2 9/125µm

Physical Properties

IEC 60794-1-21/22

Attribute	Method	Limits					
Fibre Count	N/A	4	6	8	12	16	24
Nominal diameter (mm)	N/A	6.5	6.5	7	7.5	8	8.5
Nominal weight (kg/km)	N/A	34	36	39	43	42	63
Maximum installation load (N)	N/A	1500				2100	2400
Short term tensile strength (N)	E1	1000				1400	1600
Permanent tensile strength (N)	E1	500				1000	1500
Impact (J)	E4	20 J					
Crush (compressive strength) (N/100mm)	E3	3000				1000	1000
Torsion	E7	5 cycles +/- 1 turn					
Minimum bend radius	E11	50		75		115	
Minimum bend radius under tension	E18A	100		130		230	
Temperature range: Operation & Installation	F1	-20°C to 60°C					
Temperature range: Storage	F1	-40°C to 70°C					

ORDERING INFORMATION

Order No.	SAP No.	Description
CFR-00387	180580464	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 4 Fibre
CFR-00388	180580466	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 6 Fibre
CFR-00389	180580468	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 8 Fibre
CFR-00390	180580469	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 12 Fibre
CFR-00391	180580470	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 16 Fibre
CFR-00392	180580471	OS2 9/125µm MM TB LS0H Fibre Optic Cable Eca, 24 Fibre

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