

Features and Benefits

Molex LS0H OM4 50/125µm 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. The fibre is laser-optimised, bend-insensitive graded-index multimode OM4 fibre suitable for transmission speeds of 10G/bs or higher. The fibre is optimised for maximum transmission properties at 850nm, but is well suited for 1300nm systems. In data centres this fibre supports 40G/100G systems.

Commercial Standards:

Fibre:

IEC 60793-2-10: type A1a.3
EN 50173:2007 Amendment AB category OM4
ISO/IEC 11801:2002 Amendment 2 category OM4
TIA/EIA-492 AAAD
IEEE 802.3 - 2002 incl. amendment 802.3ae - 2002.

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.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/>

Technical Information

Cable Attenuation IEC 60793-1-40

Maximum value of cable attenuation at 850 nm \leq 3.0 dB/km

Maximum value of cable attenuation at 1300 nm \leq 1.0 dB/km

Attenuation limit according to IEC

60793-2-10, 850 nm \leq 2.5 dB/km

Attenuation limit according to IEC

60793-2-10, 1300 nm \leq 0.8 dB/km

Bandwidth IEC 60793-1-41

Overfilled (OFL) modal bandwidth at 850 nm

\geq 3500 MHz • km

Overfilled (OFL) modal bandwidth at 1300 nm

\geq 500 MHz • km

Group index of refraction

IEC 60793-1-22

Group index of refraction at 850 nm
1.482

Group index of refraction at 1300 nm
1.477

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.molexces.com

EMEA
Tel: 44 (0)2392 205800
www.molexces.com

APAC
Tel: 61 3 9971 7111
www.molexces.com

FEATURES AND SPECIFICATIONS



Fibre Optic Universal Distribution Cable Tight Buffered Indoor/ Outdoor LS0H OM4 50/125µm

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-00584	180580370	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 4 Fibre
CFR-00585	180580371	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 6 Fibre
CFR-00586	180580372	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 8 Fibre
CFR-00587	180580373	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 12 Fibre
CFR-00588	180580374	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 16 Fibre
CFR-00589	180580375	OM4 50/125µm MM TB LS0H Fibre Optic Cable Eca, 24 Fibre

MOLEX CONNECTED ENTERPRISE SOLUTIONS

Americas
Tel: 630 969 4550
www.molexces.com

EMEA
Tel: 44 (0)2392 205800
www.molexces.co.uk

APAC
Tel: 61 3 9971 7111
www.molexces.com