

Fibre Optic Universal Distribution Cable Tight Buffered Indoor/ Outdoor LS0H OM3 50/125µm

Features and Benefits

Molex LS0H OM3 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 OM3 fibre suitable for transmission speeds of 10G/bs or higher.

Commercial Standards:

Fibre:

IEC 60793-2-10: type A1a.2
EN 50 173:2007 category OM3
EN 60793-2-10: type A1a.2
ISO/IEC 11801:2002 category OM3
TIA/EIA-492 AAAC
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 500 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

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EMEA
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FEATURES AND SPECIFICATIONS



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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-00380	180580449	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 4 Fibre
CFR-00381	180580451	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 6 Fibre
CFR-00382	180580453	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 8 Fibre
CFR-00383	180580454	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 12 Fibre
CFR-00384	180580247	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 16 Fibre
CFR-00385	180580455	OM3 50/125µm MM TB LS0H Fibre Optic Cable Eca, 24 Fibre

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