

Fiber Optic Distribution Cable OM2, Indoor/Outdoor Tight Buffered, LS0H, Eca >

Molex LS0H OM2 50/125µm tight buffered fiber 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 stabilized LS0H Euroclass Eca sheath. The bend-insensitive graded index OM2 fiber is suitable for transmission speeds up to 10Gb/s.



SPECIFICATIONS >

Commercial Standards

Fiber:

IEC 60793-2-10 Category A1a.1
EN 50173-1:2007 category OM2
EN 60793-2-10: type A1a.1
ISO/IEC 11801:2002 category OM2, ITU G.651.1
TIA/EIA-492 AAAB
IEEE 802.3
ANSI/TIA-568.C

Cable:

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

Mechanical

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

Electrical

Cable Attenuation IEC 60793-1-40

Maximum at 850 nm ≤ 2.7 dB/km
Maximum at 1300 nm ≤ 0.8 dB/km

Bandwidth IEC 60793-1-41

Overfilled (OFL) modal bandwidth at 850 nm
 ≥ 500 MHz · km
Overfilled (OFL) modal bandwidth at 1300 nm
 ≥ 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

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
IEC 60332-1-2, IEC 60754-2, IEC 61034
Euroclass: Eca
DoP No: MLXCES-2017-F-050
located on web:
<https://www.molexces.com/about-us/dop-certificates/>
RoHS Compliant

www.molexces.com/products/fiber/cables/

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PHYSICAL PROPERTIES IEC 60794-1-21/22

Attribute	Method	Limits					
		4	6	8	12	16	24
Fiber 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	52	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					
Crush (compressive strength) <N/100mm)	E3	3000			1000		1000
Torsion	E7	5 cycles ± 1 turn					
Min.bend radius	E11	50		75		115	
Min. bend radius under tension	E18A	100		130		230	
Temperature Range: Operation and Installation	F1	-20°C to +60°C					
Temperature Range: Storage	F1	-40°C to +70°C					

ORDERING INFORMATION

Order No.	SAP No.	Description
CFR-00373	180580441	OM2 50/125µm MM TB LSOH Fiber Optic Cable Eca, 4 Fiber
CFR-00376	180580067	OM2 50/125µm MM TB LSOH Fiber Optic Cable Eca, 12 Fiber

www.molex.com/products/fiber/cables/

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