

### Features and Benefits

Molex LS0H OM2 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 bend-insensitive graded-index OM2 fibre is suitable for transmission speeds up to 10Gb/s.

### Commercial Standards:

#### Fibre:

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  
TIA/EIA-492 AAAB  
IEEE 802.3 - 2002 with amendment 802.3ae - 2002.  
ANSI/TIA/EIA-568B.3 - 2000

#### Cable:

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

### 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 at 850 nm  
≤ 2.7 dB/km  
Maximum at 1300 nm  
≤ 0.8 dB/km  
Typical value at 850 nm  
≤ 2.5 dB/km  
Typical value at 1300 nm  
≤ 0.6 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

### 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](http://www.molexces.com)

**EMEA**  
Tel: 44 (0)2392 205800  
[www.molexces.co.uk](http://www.molexces.co.uk)

**APAC**  
Tel: 61 3 9971 7111  
[www.molexces.com](http://www.molexces.com)

## FEATURES AND SPECIFICATIONS

# molex® Fibre Optic Universal Distribution Cable 50/125µm OM2 Tight Buffer Indoor/ Outdoor LSOH

### 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-00373	180580441	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 4 Fibre
CFR-00374	180580442	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 6 Fibre
CFR-00375	180580443	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 8 Fibre
CFR-00376	180580067	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 12 Fibre
CFR-00377	180580444	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 16 Fibre
CFR-00378	180580445	OM2 50/125µm MM TB LSOH Fibre Optic Cable Eca, 24 Fibre

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