

Fibre Optic Distribution Cable MM, OM4, Indoor/Outdoor Armoured Loose Tube, LSOH, B2ca-s1a,d1,a1

molex

Molex LSOH OM4 50/125µm central loose tube fibre cable can be used for LAN and WAN applications. The cable is suitable for indoor applications in ducts and on trays and can be direct buried with sand back-filling in outdoor applications. The cable features corrugated steel tape armour for rodent protection and contains glass yarn strength members and a UV stabilised, LSOH EuroClass B2ca,s1a,d1,a1 sheath.

The fibre is laser-optimised, bend-insensitive graded-index multimode OM4 fibre suitable for transmission speeds of 10G/bs or higher. The fibre provides maximum transmission properties at 850nm but is also compatible with 1300nm systems. In data centres this fibre supports 40G/100G systems.



Specifications

REFERENCE INFORMATION

Commercial Standards:

Fibre:

IEC 60793-2-10: type A1a.3

EN 50173-1:2007. Amendment AB category OM4

EN 60793-2-10: type A1a.3

ISO/IEC 11801:2002. Amendment 2 category OM4

TIA/EIA-492 AAAD

IEEE 802.3 - 2002 incl. amendment 802.3ae - 2002..

Cable:

ISO 11801-1, EN 50173-1, IEC 60794-1

RoHS Compliant

EU Regulation 305/2011 (CPR)

EN 50575:2014+A:2016

EuroClass: B2ca,s1a,d1,a1

DoP No: MLXCES-2018-F-059

located on web

<https://www.molexces.com/about-us/>

[dop-certificates/](#)

MECHANICAL

Cable Attenuation IEC 60793-1-40

Maximum value of cable attenuation at 850 nm:
≤ 3.0 dB/km

Maximum value of cable attenuation at 1300 nm:
≤ 1.0 dB/km

Attenuation limit according to IEC 60793-2-10,
850 nm: ≤ 2.5 dB/km

Attenuation limit according to IEC 60793-2-10,
1300 nm: ≤ 0.8 dB/km

Bandwidth IEC 60793-1-41

Overfilled (OFL) modal bandwidth at 850 nm:
≥ 1500 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

Loose Tube gel filled

Armouring: 0.15mm corrugated steel tape

Strength member: Glass yarns

Sheath: LSOH, UV stabilised

Sheath Colour: Erika Violet RAL 4003

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PHYSICAL PROPERTIES IEC 60794-1-21/22

ATTRIBUTE	METHOD	LIMITS
Nominal Outer Diameter	N/A	2-24 Fibres: 8.5mm
Nominal Weight	N/A	2-24 fibres: 100kg/km
Max. installation tensile strength	E1	1500N
Permanent tensile strength	E1	750N
Compressive strength	E3	2000N/100mm
Torsion	E7	5 cycles \pm 1 turn
Min. bend radius loaded	E11	R = 85mm
Temperature Range	F1	Storage: -40°C to +70° C, Operation: -40°C to +70°C Max attenuation variation at operational temperature range = MM 0.5 dB/km /SM = 0.2 dB/km

Ordering Information

Order No.	SAP No.	Description
CFR-00677	183150060	Fibre Optic Cable OM4 50/125 μ m MM LT LS0H B2ca-s1a,d1,a1 4F
CFR-00678	183150061	Fibre Optic Cable OM4 50/125 μ m MM LT LS0H B2ca-s1a,d1,a1 6F
CFR-00679	183150062	Fibre Optic Cable OM4 50/125 μ m MM LT LS0H B2ca-s1a,d1,a1 8F
CFR-00680	183150063	Fibre Optic Cable OM4 50/125 μ m MM LT LS0H B2ca-s1a,d1,a1 12F
CFR-00681	183150064	Fibre Optic Cable OM4 50/125 μ m MM LT LS0H B2ca-s1a,d1,a1 24F

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