

Fibre Optic Distribution Cable MM, OM4, Indoor/Outdoor, Loose Tube, LSOH Dca-s2,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 on trays and outdoors in ducts. The cable features a high tensile strength is water-blocked and contains glass yarn strength members and a UV stabilised, LSOH EuroClass Dca-s2,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



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 187 000, IEC 60794-2, EN 50

173-1, IEC 60794-2-20

RoHS Compliant

EU Regulation 305/2011 (CPR)

EN 50575:2014+A:2016

EuroClass: Dca-s2,d1,a1

DoP No: MLXCES-2018-F-058

located on web

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

[dop-certificates/](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:

≥ 3500 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

Strength member: Glass yarns

Water blocking: Swellable thread

Sheath: LSOH, UV stabilized

Sheath Colour: Aqua RAL 4003

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PHYSICAL PROPERTIES IEC 60794-1-21/22

ATTRIBUTE	METHOD	LIMITS
Nominal Outer Diameter	N/A	4-12 Fibres: 7.5mm, 24 fibres: 8.0mm
Nominal Weight	N/A	4-12 fibres: 55kg/km, 24 fibres: 60kg/km
Max. installation tensile strength	E1	1500N
Permanent tensile strength	E1	700N
Compressive strength	E3	2000N/100mm
Torsion	E7	5 cycles \pm 1 turn
Min. bend radius loaded	E11	R = 100mm
Temperature Range	F1	Storage: 40°C to +60°C Installation: -15°C to +40°C Operation: -30°C to +70°C

Ordering Information

Order No.	SAP No.	Description
CFR-00662	183150045	Fibre Optic Cable OM4 50/125 μ m MM LT LSOH Dca-s2,d1,a1 4F
CFR-00663	183150046	Fibre Optic Cable OM4 50/125 μ m MM LT LSOH Dca-s2,d1,a1 6F
CFR-00664	183150047	Fibre Optic Cable OM4 50/125 μ m MM LT LSOH Dca-s2,d1,a1 8F
CFR-00665	183150048	Fibre Optic Cable OM4 50/125 μ m MM LT LSOH Dca-s2,d1,a1 12F
CFR-00666	183150049	Fibre Optic Cable OM4 50/125 μ m MM LT LSOH Dca-s2,d1,a1 24F

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