

Fibre Optic Distribution Cable MM, OM3, Indoor/Outdoor, Loose Tube, LSOH Dca-s2,d1,a1

molex

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



Specifications

REFERENCE INFORMATION

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

RoHS Compliant

Fire Propagation Tests

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/](#)

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

Strength member: Glass yarns

Water blocking: Swellable thread

Sheath: LSOH, UV stabilized

Sheath Colour: Aqua RAL 6027

www.molexces.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.

Fibre Optic Distribution Cable MM, OM3, Indoor/Outdoor, Loose Tube, LSOH Dca-s2,d1,a1



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-00657	183150040	Fibre Optic Cable OM3 50/125µm MM LT LSOH Dca-s2,d1,a1 4F
CFR-00658	183150041	Fibre Optic Cable OM3 50/125µm MM LT LSOH Dca-s2,d1,a1 6F
CFR-00659	183150042	Fibre Optic Cable OM3 50/125µm MM LT LSOH Dca-s2,d1,a1 8F
CFR-00660	183150043	Fibre Optic Cable OM3 50/125µm MM LT LSOH Dca-s2,d1,a1 12F
CFR-00661	183150044	Fibre Optic Cable OM3 50/125µm MM LT LSOH Dca-s2,d1,a1 24F

www.molexces.com

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.