

# Fibre Optic Distribution Cable MM, OM3, Indoor/Outdoor Armoured Loose Tube, LSOH, B2ca-s1a,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 in ducts and 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 OM3 fibre suitable for transmission speeds of 10G/bs or higher.



## PHYSICAL PROPERTIES IEC 60794-1-21/22

### 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: 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: Aqua RAL 6027

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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,<br>Operation: -30°C to +70°C<br>Max attenuation variation at operational temperature range =<br>MM 0.5 dB/km /SM = 0.2 dB/km |

## Ordering Information

| Order No. | SAP No.   | Description   |
|-----------|-----------|---|
| CFR-00672 | 183150055 | Fibre Optic Cable OM3 50/125 $\mu$ m MM ARM LT LS0H, B2ca-s1a,d1,a1 4F  |
| CFR-00673 | 183150056 | Fibre Optic Cable OM3 50/125 $\mu$ m MM ARM LT LS0H, B2ca-s1a,d1,a1 6F  |
| CFR-00674 | 183150057 | Fibre Optic Cable OM3 50/125 $\mu$ m MM ARM LT LS0H, B2ca-s1a,d1,a1 8F  |
| CFR-00675 | 183150058 | Fibre Optic Cable OM3 50/125 $\mu$ m MM ARM LT LS0H, B2ca-s1a,d1,a1 12F |
| CFR-00676 | 183150059 | Fibre Optic Cable OM3 50/125 $\mu$ m MM ARM LT LS0H, B2ca-s1a,d1,a1 24F |

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