

Fiber Optic Cable Indoor/ Outdoor, LSOH, Light Duty

The cable consists of a number of 900µm tight buffered optical fibers reinforced with aramid yarns and sheathed in a flame retardant Low Smoke Zero Halogen compound.

Indoor/Outdoor cable is designed for internal or outdoor use primarily in structured wiring systems in backbones and/or inter-building. It also features a "dry" water blocking system to prevent the flow of water along the cable in the event of sheath breech.

ОМЗ

Graded Index 50/125um fiber is proven to satisfy Gigabit, 10Gigabit, 40Gigabit and 100Gigabit Ethernet applications.

It will support the following link lengths:

1 Gigabit: 1,000m at 850nm 10 Gigabit: 300m at 850nm 40 Gigabit: 100-300m at 850nm 100 Gigabit 70-200m at 850nm

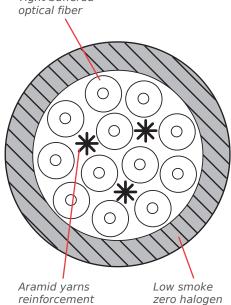
OM₄

Graded Index 50/125um fiber is proven to satisfy Gigabit, 10Gigabit, 40Gigabit (40GBASE-SR4) and 100Gigabit (100GBASE-SR10) Ethernet applications.

It will support the following link lengths:

1 Gigabit: 1,100m at 850nm 10 Gigabit: 550m at 850nm 40 Gigabit: 150-300m at 850nm 100 Gigabit 100-300m at 850nm





sheath

FEATURES AND ADVANTAGES

Low smoke zero halogen (LS0H/LSZH) sheath

OFNR riser rated

900µm tight buffered

Internal/duct grade

Aramid yarn strength member

Fibers compliant to ISO/IEC 11801 fiber specifications

www.molexces.com/products/fiber/cables/



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SPECIFICATIONS

Reference information

Commercial Standards:

OM1

ISO/IEC 11801:2002 - 2nd Edition, Type OM1; AS/ACIF S008; AS/NZS 3080:2003

OM₂

ISO/IEC 11801:2002 - 2nd Edition, Type OM2; IEC 60332-1; AS/ACIF S008; AS/NZS 3080:2003 EIA/TIA 568-C.3

ом3

ISO/IEC 11801:2002 - 2nd Edition, Type OM3; AS/ACIF S008; AS/NZS 3080:2003, IEE 802.3ba

ОМ4

ISO/IEC 11801:2002 - 2nd Edition, Type OM3; AS/ACIF S008; AS/NZS 3080:2003, IEE 802.3ba

052

ISO/IEC 11801:2002 - 2nd Edition, Type OS2; AS/ACIF S008; AS/NZS 3080:2003

Mechanical

Construction details

Fiber Identification: Color Coded Fiber Insulation: Colored LSZH Reinforcing: Aramid Yarns

Sheath: LS0H

Physical

Max. Tensile Strength-Short Term: 0.6kN Operating temp range: -10°C to +60°C Crush Resistance-Short Term: 1.0 kN/100mm

OM1

Core Diameter: 62.5±3.0μm Cladding Diameter: 125±1.0μm

OM₂

Core Diameter: 50±3.0μm Cladding Diameter: 125±1.0μm

OM3/OM4

Core Diameter: 50±2.5µm

Cladding Diameter: 125±2.0µm

Min G-Ethernet Transmission

Distance at 850/1300nm: 970/600m

052

Mode Field Diameter @ 1310: $9.2\pm0.4\mu m$ Cladding Diameter: $125\pm1.0\mu m$

Dimensions & Mass

| Diameter (nominal) (mm) | Mass (nominal) (kg/km) | Min bending radius (full load) (mm) |
|-------------------------------|---|---|
| 4.8 | 27 | 85 |
| 4.8 | 27 | 85 |
| 5.6 | 38 | 105 |
| 6.0 | 42 | 110 |
| 6.7 | 50 | 125 |
| | (nominal) (mm) 4.8 4.8 5.6 6.0 | (nominal) (nominal) (kg/km) 4.8 27 4.8 27 5.6 38 6.0 42 |

Electrical/Optical

ом1

Max. Attenuation

At 850 nm: 3.5 dB/km At 1300 nm: 1.0 dB/km

Min. Bandwidth

At 850 nm: 200 MHz/km At 1300 nm: 500 MHz/km

OM₂

Max. Attenuation

At 850 nm: 3.2 dB/km At 1300 nm: 0.9 dB/km

Min. Bandwidth

At 850 nm: 550 MHz/km At 1300 nm: 600 MHz/km

ОМЗ

Max. Attenuation

At 850 nm: 2.5 dB/km At 1300 nm: 0.7 dB/km

Min. Bandwidth

At 850 nm: 2000 MHz/km At 1300 nm: 500 MHz/km

ОМ4

Max. Attenuation

At 850 nm: 2.5 dB/km At 1300 nm: 0.7 dB/km

Min. Bandwidth

At 850 nm: 4700 MHz/km At 1300 nm: 500 MHz/km

052

Max. Attenuation

At 1310 nm: 0.4 dB/km At 1550 nm: 0.3 dB/km **Max. Average Attenuation** At 1310 nm: 0.35 dB/km At 1550 nm: 0.21 dB/km

Attenuation Discontinuity:Both Windows < 0.10dB

Numerical Aperture: 0.14



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ORDERING INFORMATION

| Order No. | SAP No. | Description |
|-------------|---------------|---|
| AFOIZ004OM1 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 62.5/125µm, OM1 |
| AFOIZ006OM1 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 62.5/125µm, OM1 |
| AFOIZ008OM1 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 62.5/125µm, OM1 |
| AFOIZ0120M1 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 62.5/125μm, OM1 |
| AFOIZ024OM1 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 62.5/125µm, OM1 |
| AFOIZ004OM2 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM2 |
| AFOIZ006OM2 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM2 |
| AFOIZ008OM2 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM2 |
| AFOIZ012OM2 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM2 |
| AFOIZ024OM2 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM2 |
| AFOIZ004OM3 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM3 |
| AFOIZ006OM3 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM3 |
| AFOIZ008OM3 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM3 |
| AFOIZ012OM3 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM3 |
| AFOIZ024OM3 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM3 |
| AFOIZ004OM4 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM4 |
| AFOIZ006OM4 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM4 |
| AFOIZ008OM4 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM4 |
| AFOIZ012OM4 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM4 |
| AFOIZ024OM4 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM4 |
| AFOIZ004OM5 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM5 |
| AFOIZ006OM5 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM5 |
| AFOIZ008OM5 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM5 |
| AFOIZ012OM5 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM5 |
| AFOIZ024OM5 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 50/125µm, OM5 |
| AFOIZ004OS2 | Consult Molex | Fiber Optic Cable, 4 Core, Indoor/Outdoor Riser, LS0H, 9/125µm, OS2 |
| AFOIZ006OS2 | Consult Molex | Fiber Optic Cable, 6 Core, Indoor/Outdoor Riser, LS0H, 9/125µm, OS2 |
| AFOIZ008OS2 | Consult Molex | Fiber Optic Cable, 8 Core, Indoor/Outdoor Riser, LS0H, 9/125μm, OS2 |
| AFOIZ012OS2 | Consult Molex | Fiber Optic Cable, 12 Core, Indoor/Outdoor Riser, LS0H, 9/125µm, OS2 |
| AFOIZ024OS2 | Consult Molex | Fiber Optic Cable, 24 Core, Indoor/Outdoor Riser, LS0H, 9/125µm, OS2 |
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