

# Fibre Optic Distribution Cable SM, OS2, Indoor/Outdoor, Loose Tube, LSOH Dca-s2,d1,a1

**molex**

**Molex LSOH OS2 9/125µm 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.**

This single mode fibre provides improved performance across the entire 1260nm to 1625nm wavelength spectrum due to its low attenuation in 1383nm water-peak region.



## Specifications

### REFERENCE INFORMATION

Commercial Standards:

#### Fibre:

IEC 60793-2-50 Category B.1.3  
ISO/IEC 11801:2002, cat. OS2 and OS1  
ISO/IEC 24702: 2006, cat. OS2 and OS1  
ITU Recommendation G.652.D and C, B, A  
IEEE 802.3 – 2012  
EN 50173-1:2007, cat. OS2 and OS1 .

#### Cable:

ISO 11801-1, EN 187 000, IEC 60794-2, EN 50173-1, IEC 60794-2-20

#### 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

1310 nm – 1625 nm:  $\leq 0.39$  dB/km  
1550 nm:  $\leq 0.25$  dB/km

#### Group index of refraction IEC 60793-1-22

1310 nm: 1.467  
1550 nm: 1.468  
1625 nm: 1.468

#### Mechanical Characteristics

Loose Tube gel filled  
Strength member: Glass yarns  
Water blocking: Swellable thread  
Sheath: LSOH, UV stabilized  
Sheath Colour: Yellow RAL 1018

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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-00667	183150050	Fibre Optic Cable OS2 9/125 $\mu$ m SM LT LSOH Dca-s2,d1,a1 4F
CFR-00668	183150051	Fibre Optic Cable OS2 9/125 $\mu$ m SM LT LSOH Dca-s2,d1,a1 6F
CFR-00669	183150052	Fibre Optic Cable OS2 9/125 $\mu$ m SM LT LSOH Dca-s2,d1,a1 8F
CFR-00670	183150053	Fibre Optic Cable OS2 9/125 $\mu$ m SM LT LSOH Dca-s2,d1,a1 12F
CFR-00671	183150054	Fibre Optic Cable OS2 9/125 $\mu$ m SM LT LSOH Dca-s2,d1,a1 24F

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