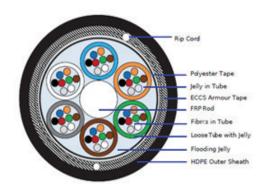


Outdoor Loose Tube Armored 9/125µm OS2 Type Optical Cable

Cable containing up to 48 optical fibers in water blocked loose tubes and solid polyethylene fillers, total of 6 elements laid-up around a fiber reinforced plastic (FRP) central strength member, water blocked interstices, taped, corrugated steel tape armored, HDPE overall sheathed.



SPECIFICATIONS

Commercial Standards

Specifications

ISO.IEC 11801 - 2nd Edition, type OS2; AS/ACIF S008; AS/NZS 3080, EIA/TIA 568.3-D ITU-T REC G 652D spec for Low Water Peak fiber; supports 10G + data applications Complies with Telcordia GR20, IEC-60793-2-50 and TIA/EIA 492- CAAB standards

RoHS Complaint

Construction Details

Number of elements: 6
Design of Cable: Wet - Wet
No. of Fibers per tube: 1-12 F
Color of Fibers in Tube: Blue, Orange,

Green, Brown, Grey,

White

Color of Tubes: Blue, Orange, Green,

Brown, Grey, White

No. of tubes and dummies: As required Loose tube diameter: 2.0 ± 0.1 mm Central Strength Member: Fiber

Reinforced Plastic (FRP)

Armoring: ECCS Tape

Fiber protection (Tubes): Polybutylene

Terephthalate (PBT)

Polyester Tape

Water Blocking: Thixotropic Gel (Tube)

Petroleum Jelly (Interstices)

Outer Sheath: Anti Rodent, Anti

Termite and UV HD Polyethylene- Black

Outer Sheath thickness: 1.8 mm (nominal)

Dimensions and Mass Overall Cable

(Nominal): 11.0 ± 1 mm Mass (Nominal): 135 ± 10 kg/km Standard length: $2 \text{ km} \pm 5\%$

Mechanical

Core Wrapping:

Min. Bending Radius (during full load):

20D; D is OD

Max. Tensile Strength- Short Term:

3500N

Max. Tensile Strength- Long Term: 2500N Min. Crush Resistance: 4400N/10cm Operating Temperature range:

-40°C to 75°C

Physical

Core Diameter: $9.2\pm0.4~\mu m$ Cladding Diameter: $125\pm1.0\mu m$ Coating Diameter: $245\pm10~\mu m$ Coating cladding Concentricity Error:

≤12.0 µm

Optical

Max. Attenuation:

At 1310 nm: 0.34 dB/km At 1550 nm: 0.20 dB/km

Chromatic Dispersion

1285-1330nm: ≤3.5 ps/nm.km 1550nm: ≤18.0 ps/nm.km **Zero Dispersion Wavelength:** 1302 to

1322nm

Zero Dispersion Slope: ≤0.091 ps/nm2.km Cable cut-off wavelength: ≤1260 nm Mode Field Diameter at 1310nm:

92±0.5 μm

Core clad Concentricity Error: ≤0.8 µm

Cladding Non-Circularity: ≤1 %

Polarization mode dispersion: ≤ 0.2ps/km

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



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Cable Test

Tensile Test: Change in Attenuation

<= 0.05 dB/km

Crush Test: Change in Attenuation

<= 0.05 dB/km

Impact test: Change in Attenuation

<= 0.05 dB/km

Repeated Bend Test: Change in

Attenuation <= 0.05 dB/km

Torsion Test: Change in Attenuation

<= 0.05 dB/km

Kink Test: Change in Attenuation

<= 0.05 dB/km

Cable Bend Test: Change in Attenuation

<= 0.05 dB/km

Temperature Cycling Test: Change in

Attenuation <= 0.05 dB/km

Cable Aging Test: Change in Attenuation

<= 0.05 dB/km

Flexural Rigidity Test: Change in

Attenuation <= 0.05 dB/km

Test of Figure of Eight: Change in

Attenuation <= 0.05 dB/km

Static Bend Test: Change in Attenuation

<= 0.05 dB/km

Water Penetration Test: No leak at the

other end

Fiber Count	Fiber Per tube	Tubes	Fillers
6	6	1	5
12	6	2	4
24	6	4	2
48	8	6	0

ORDERING INFORMATION

Order No.	SAP No.	Description
ZFOAJXXXOS2-BP	Consult Molex	XXX Core, Outdoor, Loose Tube Armored, 9/125μm, OS2 Type Fiber Cable

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