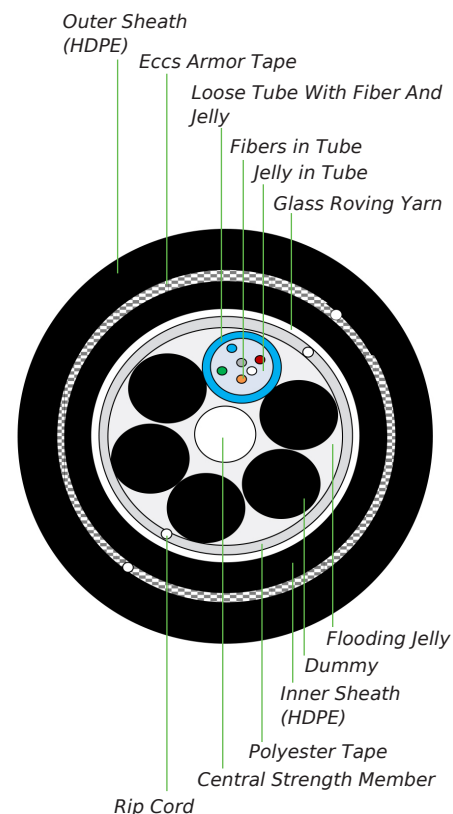


Outdoor Loose Tube Armored 9/125 μ m OS2 Type Optical Cable ➤

Cable containing upto 72 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, polyethylene overall sheathed. Anti-Rodent/Termite.



SPECIFICATIONS

Commercial Standards

ISO.IEC 11801 - 2nd Edition, type OS1/OS2; AS/ACIF S008; AS/NZS 3080
ITU-T REC G 652D spec for Low Water Peak fiber; supports 10G+ data applications, IEC 60794-3-10
IEC 60793/60794-1-2
Telcordia(BELLCORE) GR 20 STDS, TIA/EIA 568-C.3, EIA 455

RoHS Compliant

Mechanical

Number of elements: 6
Loose Tube Color: Blue, Orange, Green, Brown, Slate, White
Fiber protection (Tubes): Polybutylene Terephthalate (PBT)
Optical Fiber Color: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Pink, Aqua
Water Blocking: Thixotropic Gel(Tube) Petroleum Jelly (Interstices)
Core Wrapping: Binder and Polyester Tapes
Type of fiber used: ITU-T-G652D
Loose tube diameter: 2.0mm (nominal)-PBT
Central Strength Member: Fiber Reinforced Plastic (FRP) 2.0 mm OD
Peripheral Strength Elements: Glass Yarns

Inner Sheath material: HDPE (Black)-UV proof.
Inner Sheath thickness: 1.1 mm(nom)
Armoring: Copolymer Laminated Steel (ECCS Tape)>0.15mm
Outer Sheath: UV proof HDPE Black (1.8mm Nominal Thickness)
Rip cords: 4 Nos.

Dimensions and Mass
Overall Cable (Nominal): 13.5 \pm 1.0 mm
Mass (Nominal): 175-185 \pm 10% kg/km

Max. Bending Radius (during full load): 20D; D-Outer Diameter

Max. Bending Radius (permanent): 15D; D-Outer Diameter

Max. Tensile Strength: 3500N

Max. Crush Resistance: 6000N/10 cm

Operating Temperature range : -40°C to +70°C

Water penetration: 1m head, 3M samples, 24 hrs

Drip test: 30cm, 70°C. 24hr

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SPECIFICATIONS

Electrical

Characteristics - Optical Performance

Max. Attenuation (Cable with fibers)

At 1310 nm: 0.35 dB/km

At 1550 nm: 0.22 dB/km

Max. Average Attenuation:

At 1310 nm: 0.33 dB/km

At 1550 nm: 0.21 dB/km

Chromatic dispersion between 1285 -

1330 nm: ≤ 3.5 ps/(nm*km)

At 1550 nm: ≤ 18.0 ps/(nm*km)

Attenuation Discontinuity:

Both Windows < 0.10 dB

Numerical Aperture: 0.14

Optical

Core Diameter @ 1310nm: 9 ± 0.6 μ m

Cladding Diameter: 125 ± 0.7 μ m

Cladding Non circularity: ≤ 1.0 μ m

Core Non circularity: ≤ 6.0 %

Core-Cladding Concentricity error:

≤ 0.6 μ m

Coating Diameter: 242 ± 5 μ m

Maximum Individual Fiber PMD:

≤ 0.06 ps/sqrtkm

Primary Coating Non Circularity: ≤ 5.0 %

Primary Coating Cladding Concentricity:

≤ 12.0 μ m

Proof Stress Level: ≥ 0.7 (~ 1%) GPa

Coating Strip Force: Dry 0.6 lbs (3N);

Wet, 14Days; Room

Temperature: 0.6 lbs(3N)

Zero dispersion wavelength:

1304nm \pm 1324nm

Zero dispersion slope:

≥ 0.092 ps/(nm 2.km)

Fiber curl: ≥ 4 m-radius of

curvature

Cut-off wavelength: ≤ 1260 nm

Mode field diameter at 1310:

9.2 ± 0.4 μ m Mode

Field diameter at 1550:

10.4 ± 0.5 μ m

Macrobending loss @ 1550 nm,

100 turns on a 60mm mandrel: ≤ 0.05 dB

Max (chromatic)dispersion:

@1270-1340nm: ≤ 5.3 ps/nm-km

@1285-1330nm: ≤ 3.5 ps/nm-km

@1550nm: ≤ 18.0 ps/nm-km

Type of Cable	4F	6F	8F	12F	24F	36F	48F	72F
No. of Tubes	1 No.	1 No.	2 Nos	2 Nos	4 Nos	6 Nos	4 Nos	6 Nos
No. of Fillers	5 Nos	5 Nos	4 Nos	4 Nos	2 Nos	Nil	2 Nos	Nil
Color of Tubes	Bl	Bl	Bl, Or	Bl, Or	Bl, Or, Gr, Br	Bl, Or, Gr, Br, Sl, Wh	Bl, Or, Gr, Br	Bl, Or, Gr, Br, Sl, Wh
No. of Fibers per Tube	4F	6F	4F	6F	6F	6F	12F	12F
Color of Fibers per Tube	Bl, Or, Gr, Br	Bl, Or, Gr, Br, Sl, Wh	Bl, Or, Gr, Br	Bl, Or, Gr, Br, Sl, Wh	Bl, Or, Gr, Br, Sl, Wh	Bl, Or, Gr, Br, Sl, Wh	Bl, Or, Gr, Br, Sl, Wh, Rd, Bk, Yl, Vl, Pk, Aq	Bl, Or, Gr, Br, Sl, Wh, Rd, Bk, Yl, Vl, Pk, Aq

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Outdoor Loose Tube Armored 9/125 μ m OS2 Type Optical Cable

ORDERING INFORMATION

Order No.	SAP No.	Description
AFOAJXXXOS2-RP	Consult Molex	0-72 Core, Outdoor, Loose Tube Armored, 9/125 μ m, OS2 Type Fiber Cable

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