

molex[®] Outdoor Loose Tube Armoured 9/125µm **OS1 Type Optical Cable**

Features and Benefits

Cable containing up to 60 optical fibres in water blocked loose tubes (Maximum 12 fibres per tube) and solid polyethylene fillers, total of 5 elements laid-up around a fibre reinforced plastic (FRP) central strength member, water blocked interstices, taped, polyethylene inner sheathed, corrugated steel tape armoured, polyethylene overall sheathed.

Construction Details

Core Wrapping

Number of elements

Fibre/Tube Idenification : Colour coded

Fibre protection(Tubes) : Polybutylene Terephthalate (PBT) Central Strength Member: Fibre Reinforced Plastic(FRP)

: As Required Fillers Water Blocking

: Thixotropic Gel (Tube) Petroleum Jelly (Interstices)

: Polyethylene Terephthalate

: Polyethylene Inner Sheath

: Copolymer Laminated Steel Armouring

(ECCS Tape)

Sheath : HD Polyethylene (UV Stabilised)

Dimensions and Mass

Overall Cable (Nominal): 15.1 mm Mass (Nominal) : 220 kg/km

Mechanical and Environmental Performance

Max. Bending Radius (during full load)

Max. Tensile Strength-Short Term/Long Term: 3500N/2500N

Max. Crush Resistance-Short Term : 6000N/10 cm Operating Temperature range : -10°C -+70°C

Physical Characteristics

: 9 <u>+</u> 0.4 µm Core Diameter @ 1310nm Cladding Diameter : 125 ± 1.0 µm

Specifications

ISO.IEC 11801 - 2nd Edition, type OS1: AS/ACIF S008:

AS/NZS 3080

ITU-T REC G 652D spec for Low Water Peak fibre; supports 10G + data applications

Technical Specifications

Characteristics - Optical Performance

Max. Attenuation;

At 1310 nm : 0.34 dB/km At 1550 nm : 0.22 dB/km

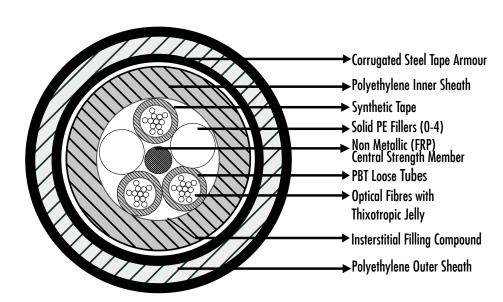
Max. Average Attenuation;

At 1310 nm : 0.33 dB/km : 0.21 dB/km At 1550 nm

Attenuation Discontinuity: Both Windows < 0.10dB

Numerical Aperture : 0.14

CONSTRUCTION DETAILS



ORDERING INFORMATION

Order No.	Description
AFOAJ0040S1	4 Core, Outdoor, Loose Tube Armoured, 9/125 µm, OS1 Type Fibre Cable
AFOAJ0060S1	6 Core, Outdoor, Loose Tube Armoured,9/125µm, OS1 Type Fibre Cable
AFOAJ0080S1	8 Core, Outdoor, Loose Tube Armoured,9/125µm, OS1 Type Fibre Cable
AF0AJ0120S1	12 Core, Outdoor, Loose Tube Armoured,9/125µm, OS1 Type Fibre Cable
AFOAJ0240S1	24 Core, Outdoor, Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable
ΔΕΟΔ1048051	48 Core Outdoor Loose Tube Armoured 9/125um OS1 Type Fibre Cable

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