

FEATURES AND SPECIFICATIONS

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 glass reinforced plastic (GRP) central strength member, water blocked interstices, taped, polyethylene inner sheathed, corrugated steel tape armoured, polyethylene overall sheathed and nylon jacketed.

Commercial Standards

ISO/IEC 11801 - 2nd Edition, Type OS1;
AS/ACIF S008; AS/NZS 3080

Technical Information

Mechanical Characteristics

Max. Bending Radius-Full load: 450mm
Max. Tensile Strength-Short Term: 2500N
Max. Crush Resistance-Short Term:
6000 N/10cm
Operating Temperature Range:
-10°C - +70°C

Construction Details

Number of Elements: 5
Fibre/Tube Identification: Colour Coded
Central Strength Member:
Glass Reinforced Plastic (GRP)
Fibre Protection (Tubes): Polybutylene
Terephthalate (PBT)
Fillers: As Required
Water Blocking: Thixotropic Gel
(Tubes) Petroleum
Jelly (Interstices)
Core Wrapping: Polyethylene
Terephthalate Tape
Inner Sheath: Polyethylene
Armouring: Copolymer
Laminated Steel Tape
Sheath: Polyethylene
(UV Stabilised)
Jacket: Nylon (UV Stabilised)

Physical Characteristics

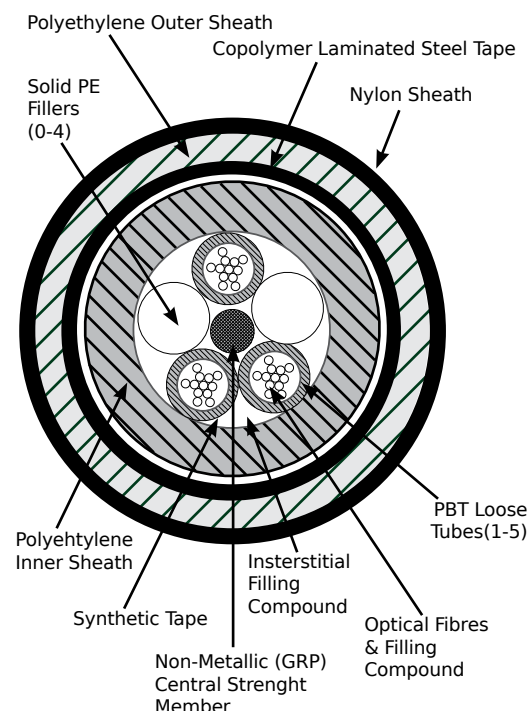
Mode Field Diameter @ 1310 nm:
9.2±0.4µm
Cladding Diameter: 125±1.0µm

Electrical/Optical Characteristics

Max. Attenuation;
At 1310 nm: 0.36 dB/km
At 1550 nm: 0.22 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

Dimensions and Mass

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



ORDERING INFORMATION

Order No.	SAP No.	Description
AFOAH004OS1	Consult Molex	4 Core, Outdoor Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable
AFOAH006OS1	Consult Molex	6 Core, Outdoor Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable
AFOAH008OS1	Consult Molex	8 Core, Outdoor Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable
AFOAH012OS1	Consult Molex	12 Core, Outdoor Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable
AFOAH024OS1	Consult Molex	24 Core, Outdoor Loose Tube Armoured, 9/125µm, OS1 Type Fibre Cable

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