

Features and Benefits

Cable containing upto 4 - 12 optical fibres in water blocked loose tube, taped, corrugated steel tape armoured (STA) polyethylene (HDPE) outer sheathed embedded with two steel wires on the periphery.

Construction Details

Number of elements: 1

Tube: Polybutylene
Terephthalate(PBT)

Tube colour: White

Tube diameter: 3.0/2.0 mm nominal OD/ID

No of fibres: 4/6/8/12

Fibre colour sequence: Blue, Orange, Green, Brown, Slate (Grey), White, Red, Black, Yellow, Violet, Pink, Aqua

Water Blocking: Thixotropic Gel (Tube)
Petroleum Jelly (Interstices)

Core Wrapping: Polyester tape
/Water swellable tape

Armouring: Corrugated Steel
Tape Armour (ECCS Tape)
Thickness > 0.125mm

Peripheral Strength Member: Two Steel wires (0.9 mm dia)

Ripcord: Polyester based
yarns below armoured
tape for easy ripping

Outer Sheath: UV Stabilised
Polyethylene (HDPE)

Sheath thickness: 2.0 mm nominal

Sheath colour: Black

Technical Information

Mechanical Characteristics

Dimensions and Mass
Overall Cable (Nominal): 9.0 mm
Mass (Nominal): 80 kg/km
Cable length: 2 km ± 10%

Mechanical and Environmental Performance

Max. Bending Radius (during installation): 20 X Overall diameter
Max. Bending Radius (during full load): 10 X Overall diameter
Max. Tensile Strength-Short Term: 1500N
Max. Crush Resistance-Short Term: 2000N/10 cm
Operating Temperature range : -40°C ± 70°C

Physical Characteristics

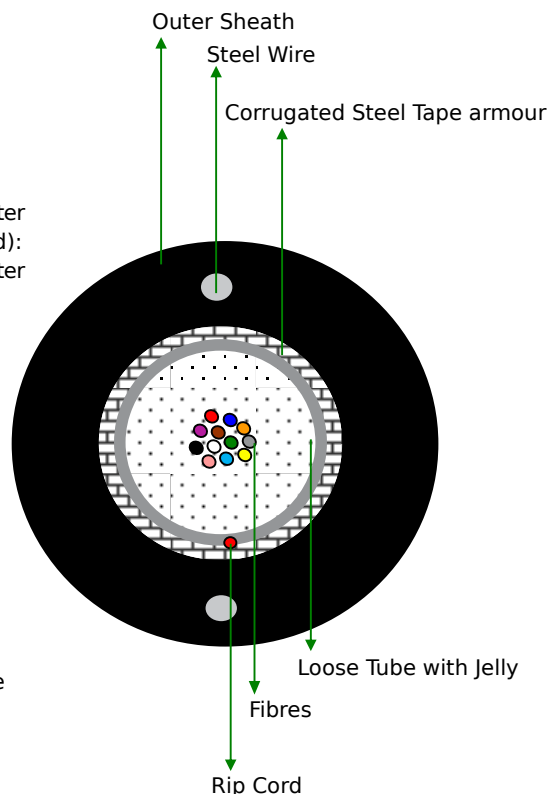
Mode Field Diameter @ 850nm: 50 + 3.0 µm
Cladding Diameter: 125 + 1.0 µm

Electrical/Optical Characteristics

Characteristics - Optical Performance

Attenuation;
At 850 nm: 3.2 dB/km
At 1300 nm: 1.0 dB/km

Min. Bandwidth;
At 850 nm: 550MHz
At 1300 nm: 600MHz



Commercial Standards

ISO/IEC 11801 - 2nd Edition, type OM2;
AS/ACIF S008; AS/NZS 3080 ;
TIA/EIA 568.C.3

ORDERING INFORMATION

Order No.	SAP No.	Description
AFOUN004OM2	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fibre Cable
AFOUN006OM2	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fibre Cable
AFOUN008OM2	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fibre Cable
AFOUN012OM2	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fibre Cable

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