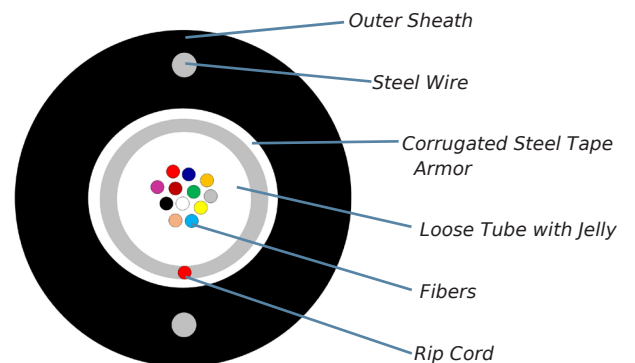


Outdoor Unitube Single Sheathed Armored Type Fiber Cable

Cable containing up to 4 - 24 optical fibers in water blocked loose tube. Taped, corrugated steel tape armored (STA); polyethylene (HDPE) outer sheathed; and embedded with two steel wires on the periphery. The cables are constructed with a UV stabilized PE jacket. The cable is anti-termite and anti-rodent.



SPECIFICATIONS

Commercial Standards

ISO.IEC 11801 - 2nd Edition,
AS/ACIF S008
AS/NZS 3080
TIA/EIA 568.3-D
IEC-60793-1, 60793-2
EIA/TIA-492
Telcordia(BELLCORE) GR 20 STDS,
EIA 455

Construction Details

Number of Elements: 1
Tube: Polybutylene Terephthalate (PBT)
Tube Color: White -
Tube Diameter: 3.0/2.0 mm nominal OD/ID
No of Fibers: 4/6/8/12/24
Fiber Color Sequence: Blue, Orange, Green, Brown, Slate (Gray), White, Red, Black, Yellow, Violet, Pink, Aqua
Water Blocking: Thixotropic Gel (Tube) Petroleum Jelly (Interstices)
Core Wrapping: Polyester tape / Water swellable tape

Armoring: Corrugated Steel Tape Armor (ECCS Tape) Thickness > 0.125mm
Peripheral Strength Member: Two steel wires (0.9 mm dia)
Ripcord: Polyester based yarns below armored tape for easy ripping
Outer Sheath: UV Stabilized Polyethylene (HDPE)
Sheath Thickness: 2.0 mm nominal
Sheath Color: Black

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SPECIFICATIONS

Fiber Type	Unit	OS1a/2	OM1	OM2	OM3	OM4	OM5
Mechanical							
Max. Bending Radius (during installation):	x Overall diameter	20					
Max. Bending Radius (during full load):	x Overall diameter	10					
Max. Tensile Strength-Short Term	N	1500					
Max. Crush Resistance-Short Term	N	2000/10 cm					
Operating Temperature range	°C	-40 ±70					
Physical Characteristics							
Mode Field Diameter @850nm	µm	-	62.5+/-3.0	50+/-3.0	50+/-3.0	50+/-3.0	50+/-2.5
Mode Field Diameter @1310nm		9+/-0.6	-	-	-	-	-
Cladding Diameter	µm	125+/-1.0	125+/-1.0	125+/-1.0	125+/-1.0	125+/-1.0	125+/-0.8
Primary Coating Diameter (uncolored)	µm	245 +/-10.0	245 +/-10.0	245 +/-7.0	245 +/-7.0	245 +/-7.0	245 +/-7.0
Mass							
Overall Cable (Nominal)	mm	9					
Mass (Nominal)	kg/km	80					
Cable Length	km	2km ± 10%					
Optical Performance							
Max Attenuation	850 nm [dB/km]	-	≤3.5	≤3.5	≤3.0	≤3.0	≤3.0
	953 nm [dB/km]	-	-	-	-	-	≤2.4
	1300nm [dB/km]	0.35	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
	1550nm [dB/km]	0.22	-	-	-	-	-
Min Bandwidth	850 nm [MHz/km]	-	≥200	≥500	≥2000	≥4700	≥4700
	953 nm [dB/km]	-	-	-	-	-	≥2470
	1300 nm [MHz/km]	-	≥500	≥500	≥500	≥500	≥500
Numerical Aperture		0.14	0.275	0.2	0.2	0.2	0.2

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ORDERING INFORMATION

Order No.	SAP No.	Description
AFOUN004OS2	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 9/125µm, OS1a/OS2 Type Fiber Cable
AFOUN006OOS2	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 9/125µm, OS1a/OS2 Type Fiber Cable
AFOUN008OSOS2	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 9/125µm, OS1a/OS2 Type Fiber Cable
AFOUN012OSOS2	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 9/125µm, OS1a/OS2 Type Fiber Cable
AFOUN004OM1	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 62.5/125µm, OM1 Type Fiber Cable
AFOUN006OM1	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 62.5/125µm, OM1 Type Fiber Cable
AFOUN008OM1	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 62.5/125µm, OM1 Type Fiber Cable
AFOUN012OM1	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 62.5/125µm, OM1 Type Fiber Cable
AFOUN024OM1	Consult Molex	24 Core, Unitube Single Sheathed, Armoured, 62.5/125µm, OM1 Type Fiber Cable
AFOUN004OM2	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fiber Cable
AFOUN006OM2	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fiber Cable
AFOUN008OM2	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fiber Cable
AFOUN012OM2	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM2 Type Fiber Cable
AFOUN004OM3	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM3 Type Fiber Cable
AFOUN006OM3	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM3 Type Fiber Cable
AFOUN008OM3	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM3 Type Fiber Cable
AFOUN012OM3	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM3 Type Fiber Cable
AFOUN004OM4	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM4 Type Fiber Cable
AFOUN006OM4	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM4 Type Fiber Cable
AFOUN008OM4	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM4 Type Fiber Cable
AFOUN012OM4	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM4 Type Fiber Cable
AFOUN024OM4	Consult Molex	24 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM4 Type Fiber Cable
AFOUN004OM5	Consult Molex	4 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM5 Type Fibre Cable
AFOUN006OM5	Consult Molex	6 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM5 Type Fibre Cable
AFOUN008OM5	Consult Molex	8 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM5 Type Fibre Cable
AFOUN012OM5	Consult Molex	12 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM5 Type Fibre Cable
AFOUN024OM5	Consult Molex	24 Core, Unitube Single Sheathed, Armoured, 50/125µm, OM5 Type Fibre Cable

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