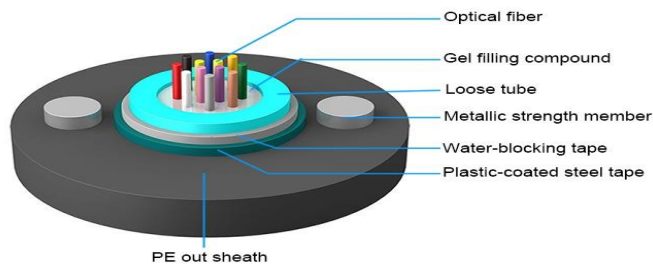


Single Loose Tube Steel Tape Armored Cable With Steel Wire

4-24 fibers



DESCRIPTION

METACOM Fiber optic cables are constructed with a single loose tube filled with water blocking jelly, water blocking tape over the tube giving it excellent water and moisture resistance. A corrugated steel armoring and two steel wires strengthening within the outer PE/LSZH sheath give this cable excellent tensile strength, mechanical and environmental protection, fully water blocked cable for outdoor duct applications. Its compact design is suitable for limited conduit space and the cables are well suited for campus-type environments in and between buildings without building entry joints.

STANDARDS & FEATURES

ANSI/TIA-568-C.3 / ISO/IEC 11801
 IEC 60332-1-2, IEC 60332-3-24, IEC 60754-1,2 & IEC 61034-2
 ITU.T G.652D / G.657A/B / G.651.1
 IEC60793-2-10 type A1a.2 OM3/ IEC60793-2-10 type A1a.3 OM4
 Fiber-count 4 -24 fibers
 Corrugated steel armoring
 Option for LSZH jacket or PE jacket
 Color-coded fibers for easy identification
 Lightweight construction, Rodent resistant

APPLICATIONS

Outdoor duct applications (PE jacket)
 Indoor/outdoor applications (LSZH jacket)
 Voice, data, video and imaging applications

FIBER PARAMETERS

Item		Unit	Specification
Fiber Type			G.652D
Mode field diameter	1310nm	mm	9.2±0.4
	1550nm	mm	10.4±0.8
Cladding diameter		mm	125.0±1
Cladding non-circularity		%	£1.0
Core/cladding concentricity error		mm	£0.5
Coating diameter		mm	245±5
Coating non-Circularity		%	£6.0
Coating/cladding concentricity error		mm	£12.0
Cable cut-off wavelength		nm	£1260
Attenuation Coefficient	1310nm	dB/km	£0.36
	1550nm	dB/km	£0.22
Proof stress level		kpsi	≥100

CABLE PERFORMANCE

Item		Parameters
Fiber Count		6/12/24
Colored coated fiber	Dimension	250µm±15µm
	Color	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua
Loose tube	Dimension	2.2mm±0.1mm
	Material	PBT
	Color	nature
Filler	Material	none
	Color	none
Strength Member	Dimension	0.7mm±0.05mm
	Material	Phosphating steel wire
Armoured	Material	Plastic coated steel strip
Outer jacket	Material	PE/LSZH
	Color	Black

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Item	Unit	Specifications
Tension(Long Term)	N	600
Tension(Short Term)	N	1500
Crush(Long Term)	N/10cm	300
Crush(Short Term)	N/10cm	1000
Min. Bend Radius(Dynamic)	mm	20D
Min.Bend Radius(Static)	mm	10D
Installation Temperature	°C	-40~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70
Repeating bending	Load : 250N;number of cycles:30 No obvious addition attenuation, no fiber break and no cable damage.	
Torsion	Load : 250N; number of cycles:10; twist angle:±90° No obvious addition attenuation, no fiber break and no cable damage.	
Impact	Impact energy : 450g×1m; radius of hammer head:12.5mm; number of impact: 5 No obvious addition attenuation, no fiber break and no cable damage.	

CABLE DIMENSIONS

Fiber count	Structure	Fibers per tube	Loose tube diameter (mm)	CSM diameter /padding diameter (mm)	Thickness of outer jacket (mm)	Cable diameter/Height (mm)	Cable weight (kg/km)
2	1	2	1.7±0.1	1.0/1.0	1.6	8.0±0.2	57
4	1	4	1.85±0.1	1.0/1.0	1.6	8.0±0.2	58
6	1	6	1.9±0.1	1.0/1.0	1.6	8.0±0.2	58
8	1	8	2.0±0.1	1.0/1.0	1.6	8.0±0.2	60
12	1	12	2.2±0.1	1.0/1.0	1.6	8.0±0.2	60
24	1	24	2.2±0.1	1.0/1.0	1.6	8.5±0.2	65

ORDERING INFORMATION

PART NUM	DESCRIPTION
MCFC-XXX-STA-YY-LZ	FIBER OPTIC CABLE STEEL TAPE ARMoured, LSZH JACKET
MCFC-XXX-STA-YY-PE	FIBER OPTIC CABLE STEEL TAPE ARMoured, PE JACKET

xxx = OS1, OS2, OM1, OM2, OM3, OM4, yy = 04, 06, 08, 12, 24 fibers
 Standard reel length 2000m

