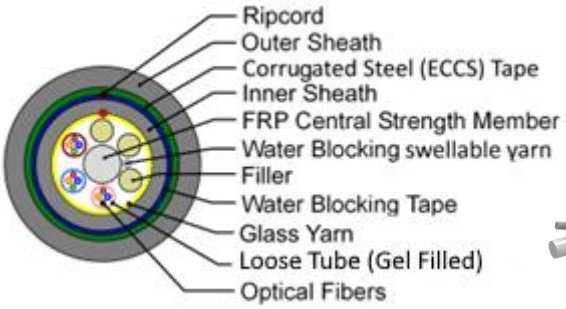
Xlight Outdoor Armored Double Jacket MDPE/HDPE ECCS Tape Fiber Cable



Features

- Unique design Multi loose tube technology provides the fibers with enough space and bending endurance to ensure good optical property of the fibers in the cable.
- Accurate process control ensures good mechanical and temperature performance.
- High quality raw material guarantees the long service life of cable.
- Optical fibers are housed in loose tubes that are made of high-modulus plastic and filled with waterproof compounds.
- Application as Backbone in Campus, LAN and Outdoor ducts.

Reference Standards

- ITU-T G.652D
- IEC60794-1
- IEC60794-3
- IEC11801
- EIA/TIA 568-C.3
- Telecordia GR-20
- RoHS Compliant

Xlight Outdoor Armored Double Jacket MDPE/HDPE ECCS Tape Fiber Cable

Specifications

Fiber Parameters	Specifications
Mode Field Diameter MF	9.1+/-0.4 μm @ 1310nm 10.4+/-0.5 μm @ 1550nm
Cladding diameter	125 ±1.0 μm
Coating diameter	245+/-7μm, with UV coating, and colored to: 250+/-15 μm
Core/cladding concentricity error	≤ 0.6 μm
Coating/cladding concentricity error	≤ 12.0 μm
Cladding non circularity	≤ 1.0%
Cut off wavelength	λcc ≤1260nm
Attenuation	≤0.36dB/km @ 1310nm
	≤0.23dB/km @ 1550nm
Bending-loss performance of optical fiber@1310nm&1550nm	≤0.05dB (100 turns around a mandrel of 50mm diameter)
PMD Polarization Mode Dispersion	≤0.2ps/√km
Zero Dispersion Wavelength	1312+/-12nm
Zero Dispersion Slope	≤0.092ps/nm2.km

Main Mechanical and Environmental Performance

Item	Value
Tensile performance(N) (IEC794-1-2-E1)	Short term - 4000, Long term - 1000
Crush(N/100mm) (IEC794-1-2-E3)	Short term - 4000, Long term - 1000
Min Bend radius (mm) (IEC794-1-2-E11)	20×D (with load) 10×D (without load)
Operation temperature (℃)	-40 ～ +70
Installation temperature (℃)	-20 ～ +70
Storage temperature (℃)	-40 ～ +70

Xlight Outdoor Armored Double Jacket MDPE/HDPE ECCS Tape Fiber Cable

Dimensions and Structure

Item	Contents	Value				
		6	12	24	48	144
Loose tube	Number	3	3	6	4	12
	Inner/Outer diameter (mm)	PBT 1.2/1.9±0.1			1.4/2.1±0.1	
Filler	Material/Number	PPL / 3		0	PPL / 2	0
Fiber counts per tube	G.652D	2	4	4	12	
Central strength member	Material	FRP				FRP/ Coated
	Diameter (mm)	2.0±0.1			2.2±0.1	2.6/6.2
Core Water Blocking	Material	Water Swellable Yarn and Tape (Core wrapping)				
Peripheral strength member	Material	Glass yarn				
Rip Cords	Material/Number	Polyester, Red Color, 3000D*2 under inner sheath, 6000D*2 under steel tape, symmetrical placement				
Inner sheath	Material / Color	MDPE / Black				
	Thickness (mm)	≥1.2				
Moisture Barrier	Material	Water Swellable Tape (between inner sheath and steel tape)				
Armor	Material	ECCS (Copolymer Coated Steel Tape)				
	Thickness (mm)	0.12 (after coating - 0.22)				
Outer sheath	Material	HDPE				
	Color	Black				
	Thickness (mm)	≥1.8mm				
Cable diameter(mm) Approx.		15.0±1.0				15.0±1.0
Cable weight(kg/km) Approx.		200±20			220±20	310±20

Xlight Outdoor Armored Double Jacket MDPE/HDPE ECCS Tape Fiber Cable

Packaging and Drum

Cable Sheath Marking

Unless otherwise specified, the cable sheath marking shall be as follows:

- Color: white
- Contents: RiT, RiT P/N, the type of cable, fibers number, date, length
- Interval: 1.0±0.5% m

Outer sheath marking legend can be changed according to user's requests.

Reel Length

Standard reel length: 2 km/reel. Other lengths are available on request.

Cable Drum

The cables are packed in fumigated wooden drums.

Cable Packing

Both ends of the cable will be sealed with suitable plastic caps to prevent the entry of moisture during shipping, handling and storage. The inner end is available for testing.

Ordering Information

P/N	Description
R2980064	Xlight Outdoor F/O Cable, Multi Loose Tube, SM, G652D, 6 Fibers, ECCS Tape Armored, Double Jacket MDPE/HDPE, High Tensile Strength
R2980124	Xlight Outdoor F/O Cable, Multi Loose Tube, SM, G652D, 12 Fibers, ECCS Tape Armored, Double Jacket MDPE/HDPE, High Tensile Strength
R2980244	Xlight Outdoor F/O Cable, Multi Loose Tube, SM, G652D, 24 Fibers, ECCS Tape Armored, Double Jacket MDPE/HDPE, High Tensile Strength
R2980484	Xlight Outdoor F/O Cable, Multi Loose Tube, SM, G652D, 48 Fibers, ECCS Tape Armored, Double Jacket MDPE/HDPE, High Tensile Strength
R2980154	Xlight Outdoor F/O Cable, Multi Loose Tube, SM, G652D, 144 Fibers, ECCS Tape Armored, Double Jacket MDPE/HDPE, High Tensile Strength