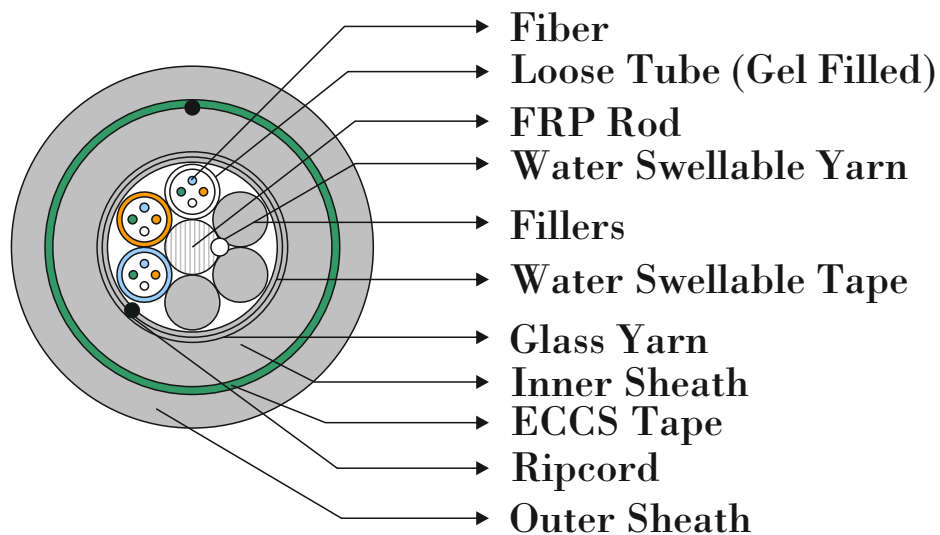


Outdoor Armored Double Jacket HDPE ECCS Tape Fiber Cable

Features



- With unique design Multi loose tube technology provide the fibers with enough space and bending endurance, which 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 Back bone in Campus LAN Network and Outdoor ducts.

Properties of fiber

Optical Fibers supplied in this specification meet the requirements of ITU-T G.652D

Specifications

Parameters	Specifications
MFD (1310nm)	9.2+/-0.4 μm
MFD (1550nm)	10.4+/-0.5 μm
Cladding diameter	125 1.0 μm
Fiber diameter	245+/-7 μm , with UV coating, and colored to : 250+/-15 μm
Core/cladding concentricity error	$\leq 0.8 \mu\text{m}$
Coating/cladding concentricity error	$\leq 12.0 \mu\text{m}$
Cladding non circularity	$\leq 1.0\%$
Cut off wavelength	$\lambda_{cc} \leq 1260\text{nm}$
Attenuation coefficient	1310nm: 0.36dB/km max after cabling
	1550nm: 0.23dB/km max after cabling
Bending-loss performance of optical fiber@1310nm&1550nm	$\leq 0.05\text{dB}$ (100 turns around a mandrel of 50mm diameter)
Polarization mode dispersion link value	0.2ps/ km
Zero-dispersion wavelength	1312+/-12nm
Zero-dispersion slope	$\leq 0.092\text{ps/nm}^2.\text{km}$

Dimension and Data

Armored	ECCS Tape – 0.15mm
Inner Jacket material	HDPE – Black - 1.2mm
Out Jacket material	HDPE –Black – 1.8mm
Fiber count	6/12/24/ 48/96 fibers 6F – 3Tube * 2 Fiber 12F – 6 Tube * 2 Fiber 24F - 6Tubes *4 Fiber 48F - 4Tubes *12 Fiber 96F – 8 Tubes * 12Fibers
Cable diameter (mm)	15.0 \pm 2.0 mm
Cable weight (kg/km)	200 \pm 50 kg
No Of Tubes	As Above
Central Strength Member	FRP Rod (2.0 +/- 0.1mm) till 48 Core and 2.0 +/- 0.1mm for 96F

Reference Standard

- IEC60794-1
- IEC11801

- ITU-T G.652D; G.657A2; G.655
- IEC60332-1-2;
- GR-20

Specifications

Mechanical and Environmental Characteristics

Temperature rating (IEC794-2-F1) Operation Storage	-20°C~+70°C -20°C~+70°C
Max. loading (IEC794-1-E1) - Tensile Strength	4000N
Min bend radius (IEC794-1) With load (mm) Without load (mm)	20×D 10×D
Crush resistance (IEC794-1)	4000N
Water Penetration	IEC 60794-1-2 F5

Packaging

Wooden Drums Protection

Marking

Cable Marker every Meter by: • Year of manufacture, • Type of Cable , • Number of fiber, • Cable length,

Delivery Length

Standard delivery length is 2km/drums other lengths available on request.

Ordering Information

P/N	Descriptions
GFS2CALHTAPE006	Genius Fiber Optic cable 6 core Single Mode Multitube High Tensile Armoured HDPE
GFS2CALHTAPE012	Genius Fiber Optic cable 12 core Single Mode Multitube High Tensile Armoured HDPE
GFS2CALHTAPE024	Genius Fiber Optic cable 24 core Single Mode Multitube High Tensile Armoured HDPE
GFS2CALHTAPE048	Genius Fiber Optic cable 48 core Single Mode Multitube High Tensile Armoured HDPE
GFS2CALHTAPE096	Genius Fiber Optic cable 96 core Single Mode Multitube High Tensile Armoured HDPE