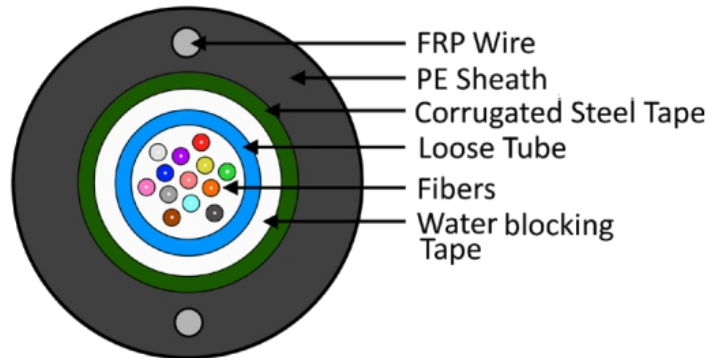


F/O Single Loose Tube Armored

Fiber | Cables | Outdoor



Genius Armored cables consisting of single central loose tube fibers, corrugated steel-polyethylene laminated tape, water blocking tape, two FRP strength members and PE outer sheath.

KEY APPLICATIONS

- Outdoor and Aerial applications
- Internal/external duct and tunnel applications

KEY FEATURES

- Small cable diameter, light weight and excellent bending properties
- 6/12 SM 250 μ m G.652D color coded Fibers
- Two parallel round FRP wires are resistant to tensile and lateral pressure
- Crash resistance

STANDARDS COMPLIANCE

- ISO/IEC 11801
- ITU-T G.652D
- EIA/TIA 568C.3
- IEC 60794-1-E2/E2/E3/E4/E6/E7
- IEC 60794-1-2-F1
- ROHS Compliant



TECHNICAL SPECIFICATION

Cable Construction	
Fiber Count	6/12
Central Tube	Loose Tube, PBT, $\varnothing 2.5 \pm 0.1\text{mm}$
Strength Members	FRP Wires $\varnothing 0.6-0.62\text{mm}$ (x2)
Armor Layer	CSTA / ECCS Tape - 0.2mm with coating
Sheath	MDPE, 1.5mm Thick or LSZH
Cable Outer Diameter	$\varnothing 7.5 \pm 0.5\text{mm}$

Mechanical and Environmental Properties	
Tensile Strength Short/Long- term	200/50 N (IEC 60794-1-E1)
Crush Resistance Short/Long- term	1000/300 N (IEC 60794-1-E3)
Cable Impact	PASS (IEC 60794-1-E4)
Repeat Bending	PASS (IEC 60794-1-E6)
Torsion	PASS (IEC 60794-1-E7)
Operation Temperature	-40-+70 °C (IEC 60794-1-2-F1)
Storage Temperature	-40-+70 °C (IEC 60794-1-2-F1)
Storage Temperature	-10-+70 °C (IEC 60794-1-2-F1)
Max Bending Radius	10 x Cable Diameter
Cable Weight	54±10kg/km
Marking	Every meter
Packaging	2.0Km per Wooden Drums

Fiber Characteristics	
Type	G652D Single-Mode fiber
MFD(1310nm)	9.2+/-0.4µm
MFD(1550nm)	10.4+/-0.4µm
Cladding diameter	125µm±1.0µm
Fiber diameter	245±7µm with UV coating and colored to : 250±15µm
Core/cladding concentricity	≤0.6µm
Coating/cladding concentricity	≤12.0µm
Cladding non circularity	≤1.0%
Cut-off wavelength	$\lambda_{cc} \leq 1260\text{nm}$
Attenuation coefficient	1310nm: ≤0.36dB/km 1550nm: ≤0.22dB/km
Bending-loss performance of optical fiber @1310@1550	≤0.05dB (100 turns around a mandrel of $\varnothing 50\text{mm}$)
Polarization Mode Dispersion	≤0.1ps/√km
Zero-dispersion wavelength	1312+/-12nm
Zero-dispersion slope	≤0.091ps/nm ² *km

ORDERING INFORMATION

P/N	DESCRIPTION
GFS2CALTUFAPE006	Genius Fiber Optic cable 6 core Single Mode Unitube Armoured FRP HDPE
GFS2CALTUFAPE012	Genius Fiber Optic cable 12 core Single Mode Unitube Armoured FRP HDPE
GFS2CALTUFAPE024	Genius Fiber Optic cable 24 core Single Mode Unitube Armoured FRP HDPE
GFS2CALTUFALS006	Genius Fiber Optic cable 6 core Single Mode Unitube Armoured FRP LSZH
GFS2CALTUFALS012	Genius Fiber Optic cable 12 core Single Mode Unitube Armoured FRP LSZH
GFS2CALTUFALS024	Genius Fiber Optic cable 24 core Single Mode Unitube Armoured FRP LSZH

