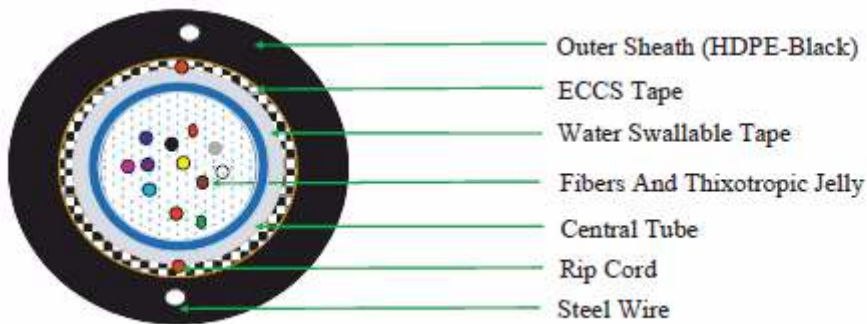


Fiber Optic Unitube Single Mode Loose Tube Armored Cable

Fiber | Cables | Outdoor



Genius Armored cables consisting of single central loose tube fibers, corrugated steel-polyethylene laminated tape, water blocking tape, two Steel Wires 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 Steel wires are resistant to tensile and lateral pressure
- Crush resistance

STANDARDS COMPLIANCE

- ISO/IEC 11801
- ITU-T G.652D
- EIA/TIA 568C.3
- EIA/TIA 598
- IEC 60794-1-E2/E2/E3/E4/E6/E7
- IEC 60794-1-2-F1
- ROHS Compliant

TECHNICAL SPECIFICATION

Mechanical and Environmental Properties	
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	20 x Cable Diameter
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	λ _{cc} ≤1260nm
Attenuation coefficient	1310nm: ≤0.33dB/km ,1550nm: ≤0.18dB/km
Bending-loss performance of optical fiber @1310@1550	≤0.05dB (100 turns around a mandrel of Ø50mm)
Polarization Mode Dispersion	≤0.1ps/vkm
Zero-dispersion wavelength	1312+/-12nm
Zero-dispersion slope	≤0.091ps/nm ² *km

Cable Construction			
Cable Outer Diameter	9.5 ± 0.5mm	8.5 ± 0.5mm	7.5 ± 0.5mm
Fiber Count	6F/12F	6F/12F	6F/12F
Central Tube – PBT (With Thixotropic Jelly)	3.0 ±0.1	3.0 ±0.1	2.0 ±0.1
Strength Members - SW/Glass Yarn / FRP	Steel Wire (0.9 mm x 2 Nos)	Steel Wire (0.9 mm x 2 Nos)	Steel Wire (0.6 mm x 2 Nos)
Moisture Barrier	Water Swallable Tape	Water Swallable Tape	Water Swallable Tape
Armouring	ECCS Tape	ECCS Tape	ECCS Tape
Outer Sheath Material	HDPE Back (UV Stabilized)	HDPE Back (UV Stabilized)	HDPE Back (UV Stabilized)
HDPE Thickness	2.25mm nominal	2.0mm nominal	1.80mm nominal
Cable diameter (mm)	9.5 ± 0.5mm	8.5 ± 0.5mm	7.5 ± 0.5mm
Cable Weight (kg/km)	85.0 ± 10 % KG	70.0 ± 10 % KG	59.0 ± 10 % KG
Tensile Strength	Short - 3000N	Short - 2500N	Short - 2000N
	Long - 1000N	Long - 1000N	Long - 800N
Crush Test	Short - 3000N / 100mm	Short - 2500N / 100mm	Short - 2000N / 100mm
	Long - 100N / 100mm	Long - 100N / 100mm	Long - 800N / 100mm

ORDERING INFORMATION

P/N	DESCRIPTION
GFS2CALTUS9PE006	Genius Fiber Optic cable 6 core Single Mode Unitube Armoued SW HDPE 09mm
GFS2CALTUS9PE012	Genius Fiber Optic cable 12 core Single Mode Unitube Armoued SW HDPE 09mm
GFS2CALTUS8PE006	Genius Fiber Optic cable 6 core Single Mode Unitube Armoued SW HDPE 08mm
GFS2CALTUS8PE012	Genius Fiber Optic cable 12 core Single Mode Unitube Armoued SW HDPE 08mm
GFS2CALTUS7PE006	Genius Fiber Optic cable 6 core Single Mode Unitube Armoued SW HDPE 07mm
GFS2CALTUS7PE012	Genius Fiber Optic cable 12 core Single Mode Unitube Armoued SW HDPE 07mm

