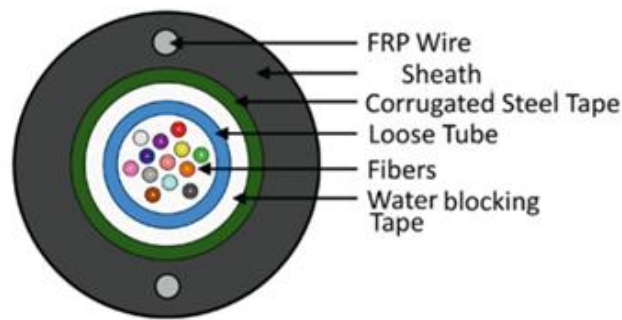


Multi Mode OFC

Uni Loose Tube Armored – FRP Rod

Cable Construction



Genius Armored cables feature a single central loose tube construction integrated with corrugated steel–polyethylene laminated tape for enhanced mechanical protection, water-blocking tape to prevent moisture ingress, dual FRP strength members for improved tensile strength, and a durable HDPE / LSZH outer sheath, ensuring excellent crush resistance, rodent protection, and reliable performance in demanding outdoor, direct burial, and duct and underground installations

Key Features

- Small cable diameter, light weight and excellent bending properties
- Two parallel round FRP are resistant to tensile and lateral pressure
- Maximum Crush resistance
- Support Aerial, Internal/external duct and tunnel applications
- Genius Network Brand Performance warranty for 25 Years

Product Construction

Cable Type	Multi Mode, Unitube, Armored
Fiber Grade	OM4 / OM3
Fiber Count	6F / 12F
Number of Tubes	1 Nos
Number of Fiber per tube	6F / 12F
Loose tube diameter	2.5 mm
Loose tube material	PBT (With Thixotropic Jelly)
Loose Tube Color	White / Natural
Fiber Color	Blue to White for 6F Blue to Aqua for 12F
Armoring Type	ECCS Tape (0.2mm With Coating)
Strength Member	FRP Rod
No of Strength Member	2Nos
Strength Member Size	0.60 mm (Nominal)
Rip Cord	Yes
Outer Jacket Material	HDPE / LSZH
Outer Cable Diameter	7.5 mm \pm 0.5 mm
Sheath Thickness	1.5 mm (Nominal)
Moisture Barrier	W S Tape
Weight	54 Kg/km +/- 10%

Environmental Specification

Operation Temperature	-40°C to +70°C
Installation Temperature	-10°C to +70°C
Storage Temperature	-40°C to +70°C

Fiber Characteristics

Fiber Grade	OM4 / OM3
Fiber Type	50/125 μm
Attenuation Loss @ 850 nm	≤ 2.7 dB/km for OM4 ≤ 3.0 dB/km for OM3
Attenuation Loss @ 1300 nm	≤ 0.8 dB/km for Om4 ≤ 1.0 dB/km for OM3
Effective Modal Bandwidth	> 4800 MHz·km for OM4 > 2000 MHz·km For OM3
Core Diameter	$50 \mu\text{m} \pm 2.0 \mu\text{m}$
Cladding Diameter	$125 \mu\text{m} \pm 1.0 \mu\text{m}$
Coating Diameter	$245 \mu\text{m} \pm 8 \mu\text{m}$
Core non-circularity	5%
Cladding non-circularity	2%
Coating non-circularity	5%
Coating diameter – Uncolored	$245 \mu\text{m} \pm 7 \mu\text{m}$
Coating diameter – Colored	$254 \mu\text{m} \pm 10 \mu\text{m}$
Coating/cladding concentricity error	$< 10 \mu\text{m}$
Core/cladding concentricity error	$2 \mu\text{m}$

Mechanical Properties

Tensile Strength (Short)	2000 N
Tensile Strength (Long)	700 N
Crush Resistance (Short)	2000 N / 100 mm
Crush Resistance (Long)	700 N / 100 mm
Bend Radius (Short)	20D (D – Diameter of the cable)
Bend Radius (Long)	10D (D – Diameter of the cable)
Torsion Strength	$\pm 180^\circ$

Standards, Certifications & Compliances

- RoHS v3 Compliant
- Compliance with ISO/IEC 11801, EIA/TIA 568C.3, ITU-T G.652D
- Compliance with ANSI/TIA 598-D Color Code standard
- Compliance with temperature Standards for Fiber Cable IEC 60794-1-2-F1
- Compliant to Mechanical Test Standard IEC 60794-1-E2/E2/E3/E4/E6/E7
- Compliance with IEC 60332-1, IEC 60754-1, IEC 61034-2, ASTM D2843 & ASTM D2863 for LSZH Jacketed Cable

Packaging

Packaging

Wooden Drum – 2Km±10%

Ordering Information

Part Number	Product Description
GFM4CALTUFAPE006	Genius Fiber Optic cable 6 core OM4 Unitube Armored FRP HDPE
GFM4CALTUFAPE012	Genius Fiber Optic cable 12 core OM4 Unitube Armored FRP HDPE
GFM4CALTUFALS006	Genius Fiber Optic cable 6 core OM4 Unitube Armored FRP LSZH
GFM4CALTUFALS012	Genius Fiber Optic cable 12 core OM4 Unitube Armored FRP LSZH
GFM3CALTUFAPE006	Genius Fiber Optic cable 6 core OM3 Unitube Armored FRP HDPE
GFM3CALTUFAPE012	Genius Fiber Optic cable 12 core OM3 Unitube Armored FRP HDPE
GFM3CALTUFALS006	Genius Fiber Optic cable 6 core OM3 Unitube Armored FRP LSZH
GFM3CALTUFALS012	Genius Fiber Optic cable 12 core OM3 Unitube Armored FRP LSZH

Note – Last 3 Digit of part number Indicate Number Of cores in Fiber Cable



Note – Any specification in the data sheet including Design, Performance, Measurement and standards may change without prior notice by **Net Gen Innovations Private Limited** as part of continuous Improvement – Always download data sheet from genius-net.com for latest version