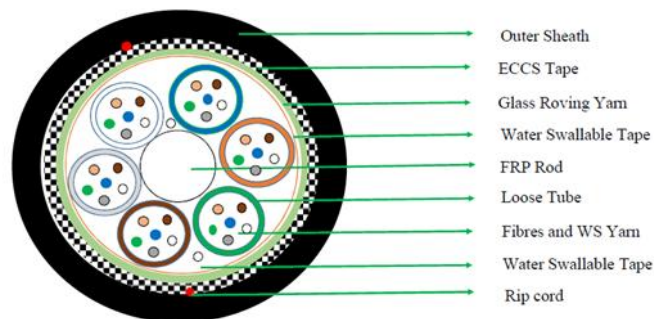


Multi Mode OFC

MLT - Glass Roving Yarn Dry Core

Cable Construction



Genius Dry Core Fiber Optic Cable is designed with an Glass roving yarn, FRP central strength member and ECCS armor for enhanced mechanical strength and durability. Its dry core construction using water-swollable tapes and yarn ensures reliable moisture protection without the use of gel, enabling clean and easy installation. The loose tube design with glass roving yarn offers excellent fiber protection and long-term performance stability. Suitable for outdoor and duct applications, it delivers high tensile strength, durability, and superior resistance to environmental conditions

Key Features

- Gel-free dry core design enables quick installation and easy fiber access
- ECCS steel tape armouring ensures high strength and crush resistance.
- Loose tube design with FRP member for long durability
- Low attenuation ensures reliable long-distance transmission
- Genius Network Brand Performance warranty for 25 Years

Product Construction

Cable Type	Multi Mode, Multi loose tube, Dry Core
Fiber Grade	OM4
Fiber Count	6F / 12F
No of Fiber Per Tube	2 Nos.
Fiber Color	Blue & Orange
Loose Tube diameter	2.2 ±0.1mm
Loose tube material	PBT (Gel Free)
Loose Tube Count	3 Tubes for 6F 6 Tubes for 12F
Loose Tube Color	6F – Blue to Green 12F – Blue to Orange
Filler Count	3 Nos for 6F & 0 Nos for 12F
Armoring Type	ECCS Tape
Central Strength Member	FRP Rod
Peripheral Strength Member	Glass Roving Yarn
Strength Member Size	2.3 ±0.1 mm
Rip Cord	Polyester Rip Cord - 2Nos
Moisture Barrier	Water Swallable Tape
Outer Jacket Material	HDPE / LSZH
Outer Jacket Color	Black
Outer Cable Diameter	11.5 ±0.5 mm
Sheath Thickness	1.5 mm (Nominal)
Weight	115 Kg/km±10% for HDPE 145 Kg/km±10% for LSZH

Environmental Specification

Operation Temperature	-20°C to +70°C
Installation Temperature	0°C to +60°C
Storage Temperature	-20°C to +70°C

Fiber Characteristics

Fiber Grade	OM4
Attenuation Loss @ 850nm	≤2.7 dB/km
Attenuation Loss @ 1300nm	≤0.8 dB/km
Polarization Mode Dispersion	≤0.2 ps/√km
Bandwidth	> 4800 MHz·km for OM4 > 2000 MHz·km For OM3
Core Diameter	50 μm±2.0 μm
Cladding Diameter	125 μm±1.0 μm
Core non-circularity	< 5.0%
Cladding non-circularity	< 2%
Coating diameter – Uncolored	245±10 μm
Coating diameter – Colored	254±10 μm
Coating/cladding concentricity error	< 10 μm
Coating non-circularity	5%
Core/cladding concentricity error	< 2 μm

Mechanical Properties

Max. Tensile Strength	2000 N
Max. Crush Test	2000 Newton /100x100 mm
Cable Bend Test	20D (D – Diameter of the cable)
Torsion Strength	±180°

Standards, Certifications & Compliances

- RoHS Compliant
- Compliance with ISO/IEC 11801, EIA/TIA 568C.3, GR-20
- Compliant to ANSI/TIA 598-D Color Code standard
- Compliant to Mechanical Test Standard IEC 60794-1- E2/E2/E3/E4/E6/E7
- Compliant to temperature Standards for Fiber Cable IEC 60794-1-2-F1
- Compliant to 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
GFM4GDLTMSAPE006	Genius Fiber Optic cable 6 core OM4 Multitube Glass Roving Dry HDPE Cable
GFM4GDLTMSAPE012	Genius Fiber Optic cable 12 core OM4 Multitube Glass Roving Dry HDPE Cable
GFM4GDLTMSALS006	Genius Fiber Optic cable 6 core OM4 Multitube Glass Roving Dry LSZH Cable
GFM4GDLTMSALS012	Genius Fiber Optic cable 12 core OM4 Multitube Glass Roving Dry LSZH Cable

Note – Last 3 Digit of Part Number Indicate Number of cores in Fiber Cable

