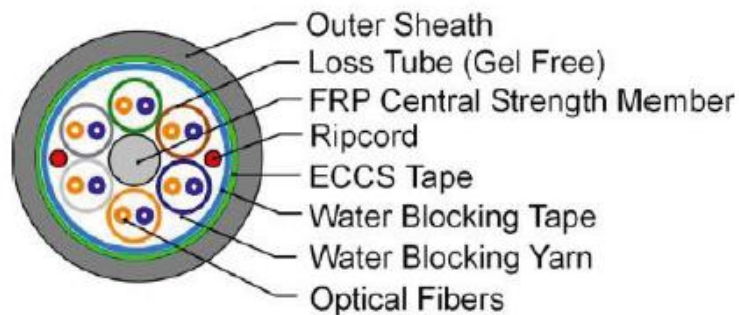


# Multi Mode OFC

## Multi Loose Tube Gel-Free Dry Core

### Cable Construction



**Genius** Dry Core Fiber Optic Cable is designed with advanced Multi loose tube stranding and a gel-free water blocking system for easy handling and faster installation. It delivers excellent optical performance with low attenuation, high bending endurance, and long-term reliability. Its armored construction provides superior mechanical strength, ensuring high tensile and crush resistance for demanding outdoor applications. Compact, lightweight, and environmentally friendly, it offers consistent performance and extended service life.

### Key Features

- Gel-free dry core design enables quick installation and easy fiber access
- ECCS steel tape armouring ensures high tensile strength and Crush Resistance
- Loose tube design with FRP member for long durability
- Low attenuation optical performance supports 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              | OM3 / OM4                                 |
| Fiber Count              | 6F / 12F                                  |
| Number of Tubes          | 3 Tubes for 6F & 6 Tubes for 12F          |
| Number of Fiber per tube | 2Nos                                      |
| Loose tube diameter      | 2.2 ±0.1 mm                               |
| Loose tube material      | PBT (Gel Free)                            |
| Loose Tube Color         | 12F – Blue to White<br>6F – Blue to Green |
| Fiber Color              | Blue & Orange                             |
| Armoring Type            | ECCS Tape                                 |
| Central Strength Member  | FRP Rod                                   |
| Strength Member Size     | 2.3 ±0.1 mm                               |
| Rip Cord                 | Polyester Rip Cord - 2 Nos                |
| Moisture Barrier         | Water Observable Tape and Yarn            |
| 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%                             |

## 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                          | OM3 / OM4                                      |
| Attenuation Loss @ 850nm             | ≤2.7 dB/km                                     |
| Attenuation Loss @ 1300nm            | ≤0.8 dB/km                                     |
| Polarization Mode Dispersion         | ≤0.2ps/√km                                     |
| Effective Modal Bandwidth            | > 4800 MHz·km for OM4<br>> 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
- Compliance with 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

Packing

Wooden Drum – 2Km±10%

## Ordering Information

| Part Number      | Product Description  |
|------------------|--|
| GFM3DALTMSAPE006 | Genius Fiber Optic cable 6 core OM3 Multitube Dry Core Armored Cable HDPE  |
| GFM3DALTMSAPE012 | Genius Fiber Optic cable 12 core OM3 Multitube Dry Core Armored Cable HDPE |
| GFM3DALTMSALS006 | Genius Fiber Optic cable 6 core OM3 Multitube Dry Core Armored Cable LSZH  |
| GFM3DALTMSALS012 | Genius Fiber Optic cable 12 core OM3 Multitube Dry Core Armored Cable LSZH |

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

