

FIBER OPTIC CABLE PRODUCT

MULTI TUBE, OUTDOOR, DOUBLE JACKET, ARMORED SM



PRODUCT DESCRIPTION

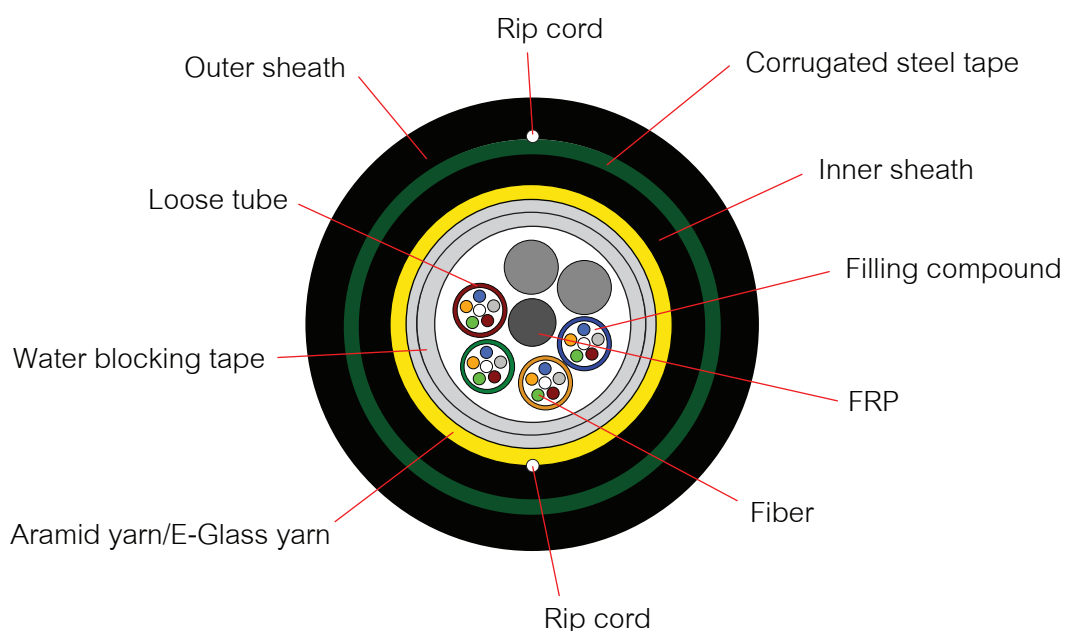
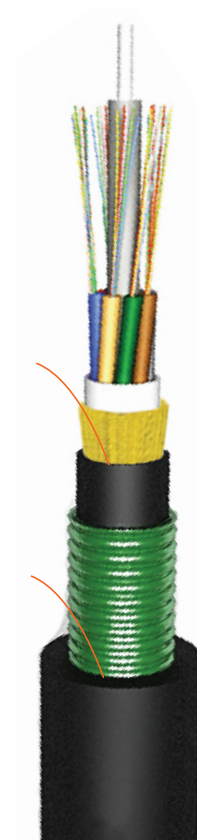
- Low attenuation, dispersion and special control of excess fiber length ensure excellent mechanical and envelopment properties.
- Filling compound and water block material validly prevent water penetration.
- Aramid yarns increase the tensile strength of cable

APPLICATION

- Special design for used together with outdoor and indoor
- All dielectric construction
- Duct or Lash Aerial install
- Multi-mode or single-mode fiber optic

STANDARD

- ATM, FDDI, FTTX, Fiber Channel, CATV, Communication
- ISO/IEC 11801:2007, ISO/IEC 11801:2011(Ed.2.2)
- ANSI/TIA/EIA-568-B.3, ANSI/ TIA-568-C.3, ANSI/TIA-568.3-D, ANSI/ICEA 640
- Telcordia (Bellcore)GR-20CORE, GR-409-CORE
- ANSI/ICEA 596, ICEA696, IEC61034-2, IEC60754-2, IEC60793, IEC60794-1-2
- ITU G.652D, ITU-TG 657A2
- TIA/EIA-598-C (Rev.TIA/EIA-598-A), EIA-359-A.
- IEEE802.3z, IEEE802.3ae, IEEE802.3 (LAN, Ethernet Fast Ethernet, Gigabit Ethernet and 10 Gigabit Ethernet 40-100 Gbps)
- RoHS compliant
- TISI-2165
- Made in Thailand : MIT



CABLE STRUCTURE AND PARAMETER

| Item | Contents | Unit | Value | | | | | | | | |
|----------------------------|------------------|-------|---|------|-----------|-----------|------|-----------|------------------------------|------|-----------|
| Fiber count | Number | / | 12/24 | 48 | 96 | 12/24 | 48 | 96 | 12/24 | 48 | 96 |
| Fiber type | / | / | G652D | | | | | | | | |
| Cable structure | / | / | 1+5 | 1+5 | 1+8 | 1+5 | 1+5 | 1+8 | 1+5 | 1+5 | 1+8 |
| Fibers per tube | Counts | / | 6 | 12 | 12 | 6 | 12 | 12 | 6 | 12 | 12 |
| Fibers color | / | / | Blue, orange, green, brown, gray, white, red, black, Yellow, Violet, Pink, Aqua | | | | | | | | |
| Loose tube | Material | / | PBT | | | | | | | | |
| | Nominal Diameter | mm | 1.8 | 2.1 | 2.1 | 1.8 | 2.1 | 2.1 | 1.8 | 2.1 | 2.1 |
| | Color | / | Blue, orange, green, brown, gray, white, red, black, Yellow, Violet, Pink, Aqua | | | | | | | | |
| Central strength member | Material | / | FRP & PE cushion layer | | | | | | | | |
| | Nominal Diameter | mm | 1.5 | 1.6 | 2.6 | 1.5 | 1.6 | 2.6 | 1.5 | 1.6 | 2.6 |
| | PE cushion | mm | - | - | 3.4 ± 0.2 | - | - | 3.4 ± 0.2 | - | - | 3.4 ± 0.2 |
| Water blocking | Material | | Water blocking tape & yarn | | | | | | | | |
| Peripheral strength member | Material | | Aramid yarn & Corrugated steel tape | | | | | | | | |
| Outer Sheath | Material | | HDPE | | | LSZH | | | HDPE (With Rodent Repellent) | | |
| | Color | | | | | Black | | | | | |
| | Thickness | mm | | | | 1.5 ± 0.2 | | | | | |
| Attenuation (after cable) | 1310nm | dB/km | ≤ 0.36 | | | | | | | | |
| | 1550nm | dB/km | ≤ 0.22 | | | | | | | | |
| Cable diameter | ±5% | mm | 9.3 | 10.0 | 12.1 | 9.3 | 10.0 | 12.1 | 9.3 | 12.1 | 10.0 |
| Cable weight | ±10% | kg/km | 107 | 121 | 173 | 127 | 143 | 201 | 107 | 173 | 121 |
| Wind speed | / | Km/h | 126 | | | | | | | | |

MAIN MECHANICAL & ENVIRONMENTAL PERFORMANCE

| Item | Contents | Value |
|-----------------------|--------------------------|-----------------------------|
| Max. tensile load | Max allowable tension | 3600 N fiber strain ≤ 0.33% |
| Max. crush resistance | Short term | 1000 N/100mm |
| Min. bending radius | Installation | 20x cable diameter |
| | Operation | 10x cable diameter |
| Temperature range | Operation | -40°C ~ +70°C |
| | Installation | -40°C ~ +70°C |
| | Storage / transportation | -40°C ~ +75°C |

OPTICAL FIBER

| Item | | Unit | Specification |
|--------------------------------------|--------|-------|---------------|
| Mode field diameter | 1310nm | μm | 9.2 ± 0.6 |
| | 1550nm | μm | 10.4 ± 0.8 |
| Cladding diameter | | μm | 125.0 ± 1.0 |
| Cladding non-circularity | | % | ≤1.0 |
| Core concentricity error | | μm | ≤0.6 |
| Coating diameter | | μm | 242 ± 7 |
| Coating/cladding concentricity error | | μm | ≤12 |
| Cable cut-off wavelength | | nm | ≤1260 |
| Attenuation | 1310nm | dB/km | ≤0.35 |
| | 1550nm | dB/km | ≤0.21 |

ORDER INFORMATION

F-ML-ODA9 - XX - XX - DJ

{ H = HDPE
 LZ = LSZH

{ 12
 24
 48
 96