

Direct Buried Type Single Sheathed Fiber Optic Cables

General Information

- Loose tube designed.
- Direct buried and/or duct type installation for highly reliable industrial applications.
- Designed for outside applications, also it's designed to protect optical fiber for the unexpected mechanical and environmental conditions.
- Qualification and acceptance testing are performed to assure the optical cable's performance and durability in several environments.

Features and Benefits

- Fiber counts up to 216
- High tensile strength design
- Fibers per loose tube 1-12
- Gel filled cable core for the water resistance
- Dry core design is also possible for water resistance in customer request
- Suitable for duct application
- Colored fiber for the quick identification
- UV resistance for the outer Sheath
- High fiber count to diameter ratio
- Fully complied with Telcordia GR-20 and TIA/EIA standards
- Colored fiber for the quick identification
- Ripcord for easy strip outer sheath

Applications

- Telecommunication applications
- Video applications
- Distribution
- Long Haul Communication and
- Metropolitan Communication Systems

Cable Weight & Diameter

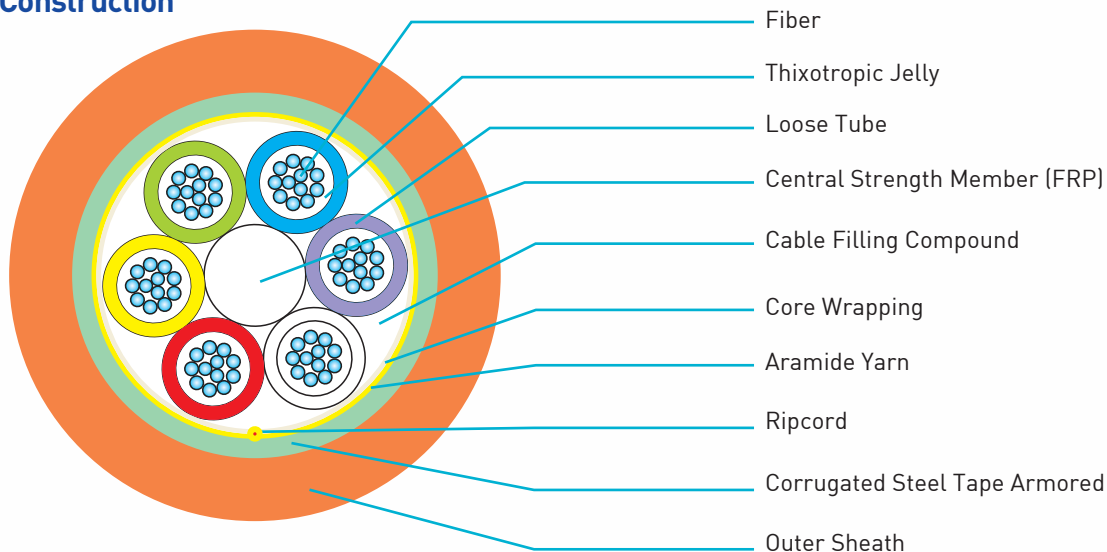
| Item | Number of Fiber | Fiber Per Tube | Number of Tube | Number of Dummy Tube | Nom Outer Diameter mm | Nom Cable Weight Kg/km | Reel Length Km* |
|---|-----------------|----------------|----------------|----------------------|-----------------------|------------------------|-----------------|
| Direct Buried Type Single Sheathed Fiber Optic Cables | 4 | 2 | 2 | 4 | 12,5 | 160 | 4 |
| | 6 | 2 | 3 | 3 | 12,5 | 160 | 4 |
| | 12 | 2 | 6 | 0 | 12,5 | 160 | 4 |
| | 24 | 4 | 6 | 0 | 12,5 | 160 | 4 |
| | 36 | 6 | 6 | 0 | 12,5 | 160 | 4 |
| | 48 | 8 | 6 | 0 | 12,5 | 160 | 4 |
| | 60 | 12 | 5 | 1 | 12,5 | 160 | 4 |
| | 72 | 12 | 6 | 0 | 12,5 | 160 | 4 |
| | 96 | 12 | 8 | 0 | 13,5 | 200 | 4 |
| | 144 | 12 | 12 | 0 | 16,0 | 275 | 4 |
| | 192 | 12 | 16 | 2 | 20,0 | 420 | 4 |
| | 216 | 12 | 18 | 0 | 20,0 | 420 | 4 |

Note: Central Strength member is FRP (Fiber Reinforced Plastic), but steel wire is also available on customer request.

(*) Other delivery length is available

TURKUAZ CABLE

Cable Construction



Identification of Optical Fiber and Loose Tube

| No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--------------|------|--------|-------|-----|--------|--------|-------|-------|-------|------|-----------|------|
| Fiber | Blue | Orange | Green | Red | Yellow | Violet | Brown | Black | White | Grey | Turquoise | Pink |
| Tubes | Blue | Orange | Green | Red | Yellow | Violet | Brown | Black | White | Grey | Turquoise | Pink |

Mechanical & Environmental Characteristics

Parameters

| | | |
|---|-------------------------|------------------------------|
| Tensile Strength IEC 60794-1-2-E1 | Max Opr. | 3.000 N 1.000 N |
| Bending Radius(mm) IEC 60794-1-2-E11 | Dynamic Static | 20xD 10xD |
| Crush Resistance IEC 60794-1-2-E3 | ----- ----- | 4.000 N ---- |
| Impact Resistance IEC-60794-1-2-E4 | ----- ----- | 50 N ---- |
| Operation Temperature IEC 60794-1-2-F1 | Installing Operating | -30 +60 (°C) -40 +80 (°C) |
| Water Penetration IEC 60794-1-2 F5 | 24 hour, 1 meter | No leakage |

D: Outer Diameter of Cable

Type Code of Optical Cable

A-DF(ZN) 2Y mxnN LG
Refer to the type code of the optical cable for the description of the cable code.

Length Marking On The Cable

The outer sheath will be marked in one meter intervals as follows;
TURKUAZ CABLE < Year of manufacturing >
< number and type of fiber >
< length marking in meter >

Color of Sheath and Material

Outer sheath materials are MDPE-HDPE-LDPE and outer sheath color is black.

Packing

Shipment will be done with non-returnable wooden drums with protection.

TURKUAZ Cable Design Information

Fiber Type: SM 9/125 /G.652 d), SM 9/125(NZDSF) (G.655), SM 9/125 (G.657), MM 50 /125 OM2 , MM 62,5/125 OM1 , MM 50/125 OM3

Loose tube design

UV resistance Outer Sheath (LDPE-MDPE or HDPE)

Jelly Filled for Water resistance

Dry core design is also available on customer request

Dielectric Strength member (FRP)

Peripheral Strength Member is glass yarn or Aramid yarn (If necessary)