

Aerial Type Armored Optical Cables

General Information

- Loose tube designed
- Applied to the poles with highly reliable and flexible and industrial applications.
- Designed for outside applications to protect optical fiber for the unexpected mechanical and environmental conditions.
- Suitable for the 60 meter span length
- Special design is required for more than 60 m span
- 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
- Fibers per loose tube 1-12
- Gel filled cable core for the water resistance
- Dry core design also possible for water resistance in customer request
- Colored fiber for the quick identification
- UV resistance for the outer sheath
- High fiber count to diameter ratio
- Suitable for aerial installation
- Fully complies with international standards, TIA/EIA
- Customer designs are available on request
- Ripcord for easy strip outer sheath

Applications

- Telecommunication
- Video
- Long Haul Communication Systems
- Metropolitan Communication Systems

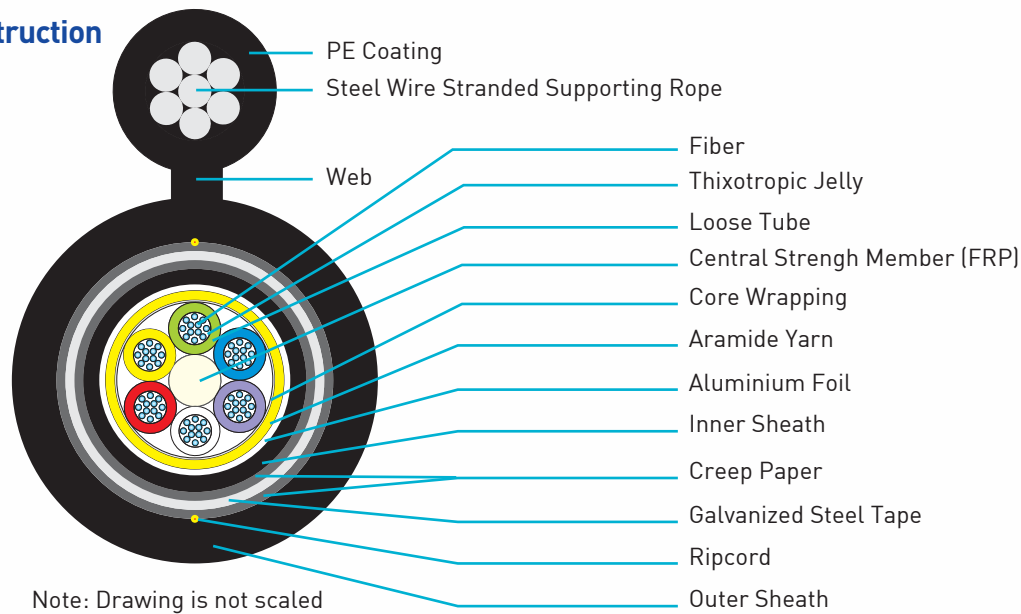
Cable Weight & Diameter

| 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* |
|-----------------------|-----------------|----------------|----------------|----------------------|-----------------------|------------------------|-----------------|
| Aerial Armored Cables | 4 | 2 | 2 | 4 | 19,0x31,0 | 520 | 2 |
| | 6 | 2 | 3 | 3 | 19,0x31,0 | 520 | 2 |
| | 12 | 2 | 6 | 0 | 19,0x31,0 | 520 | 2 |
| | 24 | 4 | 6 | 0 | 19,0x31,0 | 520 | 2 |
| | 36 | 6 | 6 | 0 | 19,0x31,0 | 540 | 2 |
| | 48 | 8 | 6 | 0 | 20,5x32,5 | 550 | 2 |
| | 60 | 12 | 5 | 1 | 20,5x32,5 | 550 | 2 |
| | 72 | 12 | 6 | 0 | 20,5x32,5 | 560 | 2 |
| | 96 | 12 | 8 | 0 | 22,5x34,5 | 590 | 2 |
| | 144 | 12 | 12 | 0 | 27,0x37,0 | 670 | 2 |
| | 192 | 12 | 12 | 2 | 27,0x37,0 | 670 | 2 |
| | 216 | 12 | 18 | 0 | 27,0x37,0 | 670 | 2 |

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



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. | 6.000 N 3.000 N |
| Bending Radius(mm) IEC 60794-1-2-E11 | Dynamic Static | 20xD 10xD |
| Crush Resistance IEC 60794-1-2-E3 | ----- ----- | 5.000 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 |

Note: Special design for higher than given tensile load also available

Type Code of Optical Cable

A-DF(ZN) 2Y (SR) T 2Y mxnN LG
Refer to the type code of the optical cables 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

Inner/ Outer sheath materials are MDPE-HDPE-LDPE and outer sheath color is black. Other color can be applied in customer request

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(G.655) , MM 62,5/125 – MM 50/125 Loose tube design
Aerial type optical cables are armored design
Galvanized steel wire and corrugated steel tape armored also available
UV resistance Outer Sheath (MDPE, 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)