

Galvanized Steel Tape Armored Fiber Optic Cables

General Information

- Direct buried and/or duct type installation with highly reliable and industrial applications.
- Designed for outside application and 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 192
- 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

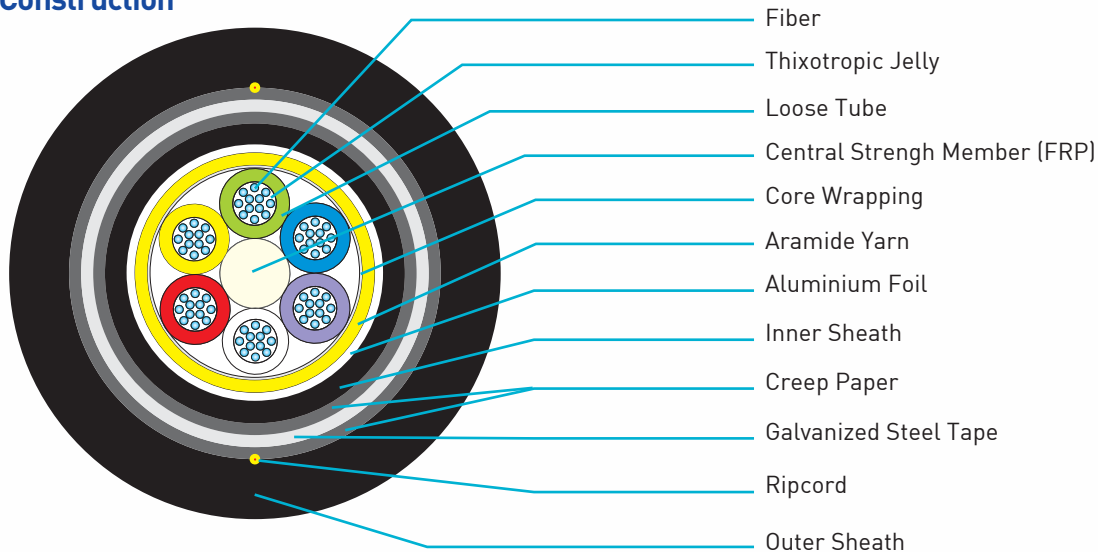
- Telecommunication
- Video
- Long Haul Communication Systems
- Metropolitan Communication Systems

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*
Galvanized Steel Tape Armored Direct Buried Type Optical Cables	4	2	2	4	18,0	350	4
	6	2	3	3	18,0	350	4
	12	2	6	0	18,0	350	4
	24	4	6	0	18,0	350	4
	36	6	6	0	18,0	350	4
	48	8	6	0	18,0	50	4
	60	12	5	1	18,0	350	2
	72	12	6	0	18,0	350	2
	96	12	8	0	20,5	400	2
	144	12	12	0	22,5	510	2
	192	12	16	2	23,5	530	2

Note: Central Strength member is FRP (Fiber Reinforced Plastic) , but steel wire also available on customer request (*)Other delivery length 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.	4.000 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

Type Code of Optical Cable

A-DF(ZN) 2Y (B) 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. Thickness of sheath is nominal 1,1 mm ($\pm 0,1$) for inner and 1,8 ($\pm 0,1$) mm for outer sheath respectively.

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 - NZDSF), MM 62,5/125 – 50/125

Loose tube design

Galvanized steel wire and corrugated steel tape armored also available

UV resistance Outer Sheath (MDPE, HDPE)

LSZH or HFFR Sheathing also possible in indoor applications

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)