

# Duct Type Single Sheathed Fiber Optic Cables

## General Information

- Loose tube designed.
- Duct type installation for highly reliable industrial applications.
- Applicable for outdoor and indoor 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 applications
- 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
- Custom designs are available on request

## Applications

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

## Cable Weight & Diameter

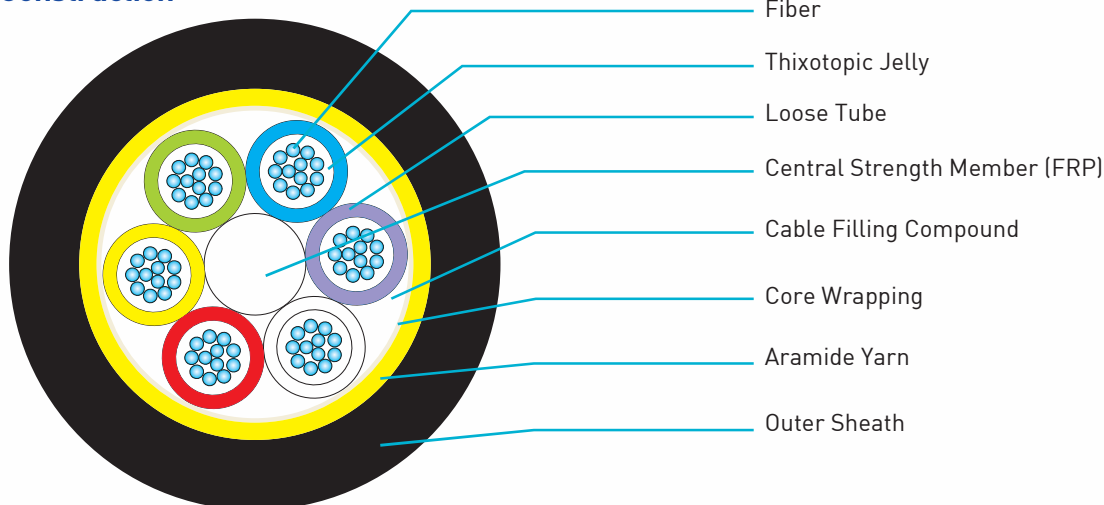
Item	Number of Fiber	Fiber Per Tube	Number of Loose Tube	Number of Dummy Tube	Nom Outer Diameter mm	Nom Cable Weight Kg/km	Reel Length Km*
Duct Type Single Sheathed Optical Cables	4	2	2	4	11,0	100	6
	6	2	3	3	11,0	100	6
	12	2	6	0	11,0	100	6
	24	4	6	0	11,0	100	6
	36	6	6	0	11,0	100	6
	48	8	6	0	11,0	100	6
	60	12	5	1	11,0	100	6
	72	12	6	0	11,0	100	6
	96	12	8	0	12,5	140	4
	144	12	12	0	15,5	195	4
	192	12	16	2	15,5	210	4
216	12	18	0	15,5	210	4	

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
<b>Fiber</b>	Blue	Orange	Green	Red	Yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink
<b>Tubes</b>	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.	2.000 N 1.000 N
Bending Radius(mm) IEC 60794-1-2-E11	Dynamic Static	20xD 10xD
Crush Resistance IEC 60794-1-2-E3	----- -----	2.000 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 mxn .....N 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 - SM 9/125(NZDSF)  
MM 62,5/125 - MM 50/125
- Loose tube design
- UV resistance Outer Sheath (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)