

Aerial (ADSS) Type Optical Cables

General Information

- Loose tube designed all dielectric self-supported (ADSS)
- Applied to the toughest environmental and electrical conditions.
- Designed for extra high voltage transmission lines without interruption of services.
- 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
- Perfect aerodynamic performance
- All dielectric construction allows installation and maintenance on energized circuits
- 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

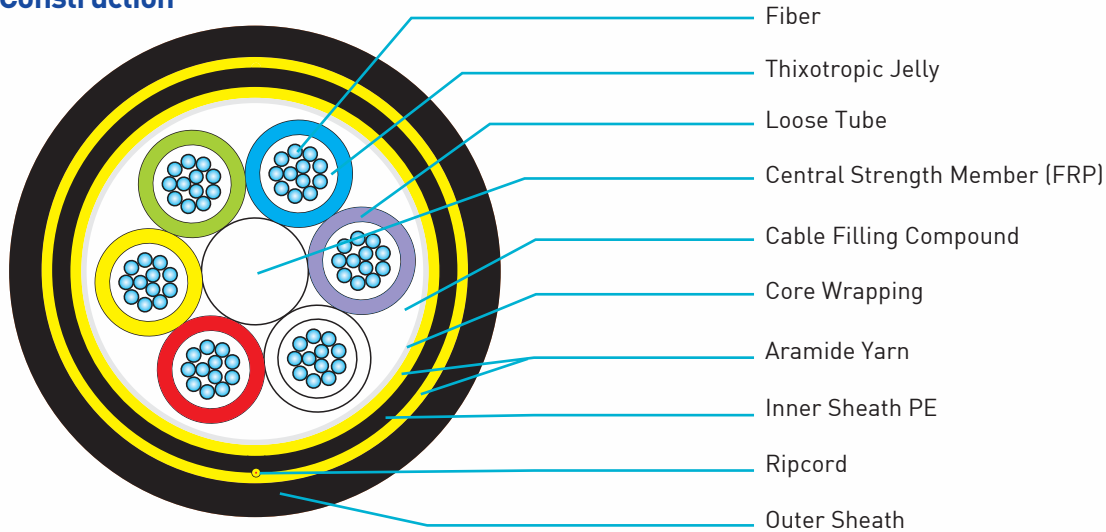
Cable Weight & Diameter

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*
ADSS Optical Cables	4	2	2	4	14,5	160	6
	6	2	3	3	14,5	160	6
	10	2	5	1	14,5	160	6
	12	2	6	0	14,5	160	6
	24	4	6	0	14,5	160	6
	36	6	6	0	14,5	160	6
	48	8	6	0	14,5	160	6
	60	12	5	1	14,5	160	6
	72	12	6	0	14,5	160	6
	96	12	8	0	16,5	210	4
	144	12	12	0	20,0	330	4
	192	16	12	2	22,5	450	4

(*) 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.	14.000 N 7.000 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
Span Length (m)	Max.	150

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

Type Code of Optical Cable

A-DF 2Y (ZN) 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. Another color can be applied per 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
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 Aramid yarn