

Direct Buried Type Double Sheathed Fiber Optic Cables

General Information

- Loose tube designed.
- Installed direct buried and/or duct type installation for highly reliable industrial applications.
- Designed for outdoor applications 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 also possible for water resistance in customer request
- Suitable for direct buried application
- Colored fiber for the quick identification
- UV resistance for the outer Sheath
- High fiber count to diameter ratio
- Fully complies with Telcordia GR-20 and TIA/EIA standards
- Customer design is available on request
- Colored fiber for the quick identification
- Ripcord for easy strip outer sheath

Applications

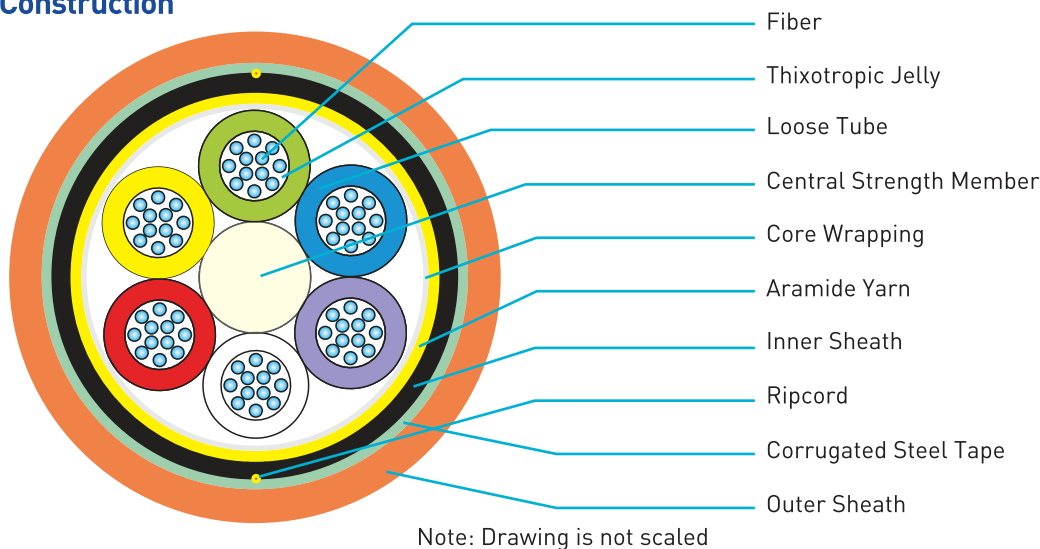
- Telecommunication applications
- Video applications
- Distribution
- Long Haul Communications
- Metropolitan Communication Systems

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 Corrugated Steel Tape Armored Double Sheathed Optical Cables	4	2	2	4	15,0	200	6
	6	2	3	3	15,0	200	6
	12	2	6	0	15,0	200	6
	24	4	6	0	15,0	200	6
	36	6	6	0	15,0	200	6
	48	8	6	0	15,0	200	6
	60	12	5	1	15,0	200	6
	72	12	6	0	15,0	200	6
	96	12	8	0	16,5	250	4
	144	12	12	0	19,0	320	4
	192	12	16	2	20,0	370	4
	216	12	18	0	20,0	370	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
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 2.000 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

D: Outer Diameter of Cable

Type Code of Optical Cable

A-DF(ZN) 2Y (SR) 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;
< 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.

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)