



- 1** Fiber
- 2** Central Strength Member
- 3** Loose Tube
- 4** Water Swellable Yarn
- 5** Outer Sheath

Loose Tube Colors

Natural

Fiber Colors

Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Turquoise.

Inner Sheath : N/A

Armour : N/A

Outer Sheath : Black MDPE, Thickness nominal 1,1 ± 0,1 mm.

Span Lengths : 120m (NESC Light)
90m (NESC Medium)
40m (NESC Heavy)

Applications

They are used between the poles in aerial lines within long range and local communication networks. They are used by hanging with own-reinforced structure.

Construction

They are covered with two FRP element MDPE material with Loose tube. It has a water blocking feature.

TECHNICAL PROPERTIES			
Number Of Fiber	Loose Tube Outer/Inner Diameter (mm)*	Cable Diameter *	Cable Weight (Kg/km) *
4	3,0/2,0	5,5/8,5	40
6	3,0/2,0	5,5/8,5	40
8	3,0/2,0	5,5/8,5	40
12	3,0/2,0	5,5/8,5	40
16	3,0/2,0	5,5/8,5	40
24	3,0/2,0	5,5/8,5	40

MECHANICAL AND ENVIRONMENTAL PROPERTIES		
Physical Tests	Conditions	Standard
Tensile Strength	1350 N Tensile Strength (Installation) 400 N Tensile Strength (Operation)	IEC 60794-1-21-E1
Impact Resistance	10J, 3 impacts	IEC 60794-1-21-E4
Crush Resistance	2000 N / 10cm	IEC 60794-1-21-E4
Bend Radius (During Installation)	30x Cable Diameter	IEC 60794-1-21-E11
Bend Radius (During Service)	15x Cable Diameter	IEC 60794-1-21-E11
Operation Storage and Transportation	-40 to +70 ° C	IEC 60794-1-22-F1
Installation Temperature	-5 to +60 ° C	IEC 60794-1-E6
Water Penetration Test	24 hours 3m length	IEC 60794-1-2 F5
Fire Test**	N/A	N/A

* : Tolerance ±10%.

** : These test case apply to HFFR sheathed cables.