



- ① Central Strength Member ③ Loose Tube ⑤ Aramid Yarn
- ② Fiber ④ Inner Sheath ⑥ Outer Sheath

Loose Tube Colors

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

Fiber Colors

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

Inner Sheath : Black LDPE, Thickness nominal $0,8 \pm 0,1$ mm.

Armour : N/A

Outer Sheath : Black MDPE, Thickness nominal $1,5 \pm 0,1$ mm.

Span Lengths : 300m

Diğer Conditions : NESC LIGHT/2,0% sag

Applications

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

Construction

Loose tubes are bent around FRP material with SZ twist method (or filler of any). Then they are covered with intercardinal cover using tumescent belt. The own-reinforced structure is supplied with adequate aramid thread. They are covered with MDPE material. It has a water blocking feature.

TECHNICAL PROPERTIES

Number Of Fiber	Loose Tube Count	Number Of Fiber	Number of Fiber in Per Tube	Central Strength Member OD	Central Strength Member Coated OD	Loose Tube Outer/Inner Diameter	Cable Diameter *	Cable Weight (Kg/km) *
4	1	5	4	2,5	N/A	2,4/1,7	13,5	126
6	3	3	2	2,5	N/A	2,4/1,7	13,5	126
8	2	4	4	2,5	N/A	2,4/1,7	13,5	126
12	3	3	4	2,5	N/A	2,4/1,7	13,5	126
16	4	2	4	2,5	N/A	2,4/1,7	13,5	126
24	6	0	4	2,5	N/A	2,4/1,7	13,5	130
36	6	0	6	2,5	N/A	2,4/1,7	13,9	136
48	6	0	8	2,5	N/A	2,4/1,7	13,9	136
60	5	1	12	2,7	N/A	2,6/1,8	14,5	149
72	6	0	12	2,7	N/A	2,6/1,8	14,5	150
96	8	0	12	2,7	4,5	2,6/1,8	16,7	192
144	12	0	12	2,7	8	2,6/1,8	20,8	284

MECHANICAL AND ENVIRONMENTAL PROPERTIES

Physical Tests	Conditions	Standard
Tensile Strength	(4-24 fiber) 9000 N Tensile Strength (Installation) (4-24 fiber) 6600 N Tensile Strength (Operation) (36-48 fiber) 1000 N Tensile Strength (Installation) (36-48 fiber) 6800 N Tensile Strength (Operation) (60-72 fiber) 11500 N Tensile Strength (Installation) (60-72 fiber) 7300 N Tensile Strength (Operation) (96 fiber) 14000 N Tensile Strength (Installation) (96 fiber) 8800 N Tensile Strength (Operation) (144 fiber) 17000 N Tensile Strength (Installation) (144 fiber) 11500 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)	20x Cable Diameter	IEC 60794-1-21-E11
Bend Radius (During Service)	10x Cable Diameter	IEC 60794-1-E11
Operation Storage and Transportation	-40 to +70 ° C	IEC 60794-1-21-E11
Installation Temperature	-30 to +60 ° C	IEC 60794-1-22-F1
Water Penetration Test	24 hours 3m length	IEC 60794-1-22 F5
Fire Test**	N/A	N/A

* : Tolerance $\pm 10\%$.

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