



- 1 Fiber
- 2 Loose Tube
- 3 Aramid/Glass Yarn
- 4 Corrugated Steel Tape
- 5 Outer Sheath

Loose Tube Colors

Natural

Fiber Colors

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

Inner Sheath : N/A

Armour : Corrugated Steel Tape

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

Applications

They are used in a pipe which is made of HDPE etc. material in long range and local communication networks.

Construction

Colored fibers are placed in the central Loose tube. Then yarns steel belt is used as a shield with aramid / glass yarns. They are covered with MDPE material. 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	9,0	96
6	3,0/2,0	9,0	96
8	3,0/2,0	9,0	96
12	3,0/2,0	9,0	96
16	3,0/2,0	9,0	96
24	3,0/2,0	9,0	96

MECHANICAL AND ENVIRONMENTAL PROPERTIES

Physical Tests	Conditions	Standard
Tensile Strength	1100 N Tensile Strength (Installation) 900 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-E3
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	-30 to +60 ° C	N/A
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.