



- 1 Fiber
- 2 Loose Tube
- 3 Aramid/Glass Yarn
- 4 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 :** Dielectric Armour

**Outer Sheath :** Black HFFR, Thickness nominal  $1.5 \pm 0.1$  mm.

### Applications

Used in cable channels or cable trays in communication networks within the building.

### Construction

Painted fibers are placed in the central Loose tube. Then adequate aramid / glass yarns are used as a shield. They are covered with HFFR 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	85
6	3,0/2,0	9,0	85
8	3,0/2,0	9,0	85
12	3,0/2,0	9,0	85
16	3,0/2,0	9,0	85
24	3,0/2,0	9,0	85

MECHANICAL AND ENVIRONMENTAL PROPERTIES		
Physical Tests	Conditions	Standard
Tensile Strength	1900 N Tensile Strength (Installation) 1000 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	-5 to +60 ° C	N/A
Water Penetration Test	24 hours 3m length	IEC 60794-1-22 F5
Fire Test**	IEC 60332-1-2 IEC 60754-2 IEC 61034-2	IEC 60332-1-2 IEC 60754-2 IEC 61034-2

\* : Tolerance  $\pm 10\%$ .

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