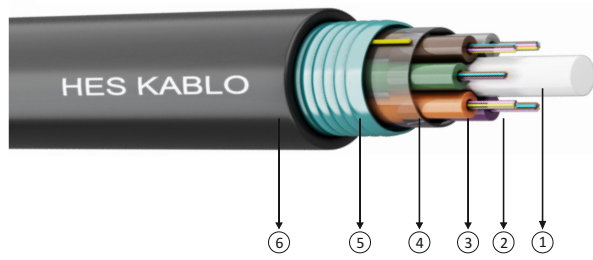




INDOOR CABLES | Multi Loose Tube, Single Sheath, Steel Tape Armoured



- ① Central Strength Member
- ② Fiber
- ③ Loose Tube
- ④ Polyester Tape
- ⑤ Central Strength Member
- ⑥ Outer Sheath

Loose Tube Colors

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

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 HFFR, Thickness nominal 1.5 ± 0.1 mm.

Applications

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

Construction

Loose tubes are bent around FRP material with SZ twist method (or filler of any). 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 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) *
8	2	4	4	2,2	N/A	2,0/1,4	11,7	159
12	3	3	4	2,2	N/A	2,0/1,4	11,7	160
16	4	2	4	2,2	N/A	2,0/1,4	11,7	160
24	6	-	4	2,2	N/A	2,0/1,4	11,7	162
36	6	-	6	2,5	N/A	2,4/1,7	12,8	193
48	6	-	8	2,5	N/A	2,4/1,7	12,8	194
72	6	-	12	2,7	N/A	2,6/1,8	13,4	211
96	8	-	12	2,7	N/A	2,6/1,8	15,2	260
144	12	-	12	2,7	8,0	2,6/1,8	18,7	371
288	24	-	12	2,7	5,4	2,6/1,8	21,3	485
432	18	-	24	3,0	N/A	2,8/1,8	19,7	402

MECHANICAL AND ENVIRONMENTAL PROPERTIES

Physical Tests	Conditions	Standard
Tensile Strength	2000 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	3000 N / 10cm	IEC 60794-1-21-E3
Bend Radius (During Installation)	20x Cable Diameter	IEC 60794-1-21-E11
Bend Radius (During Service)	10x 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.