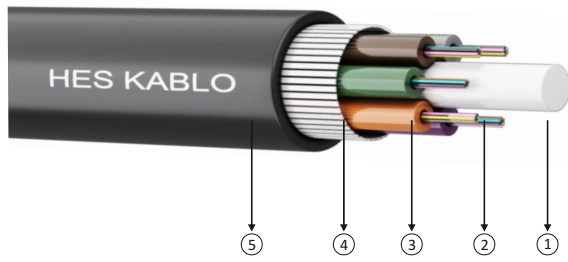


INDOOR CABLES | Multi Loose Tube, Single Sheath, Non-metallic Armoured



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

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 : Dielectric Armour

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	1	5	8	2,2	N/A	2,00/1,40	12,0	140
12	1	5	12	2,2	N/A	2,00/1,40	12,0	140
16	2	4	8	2,2	N/A	2,00/1,40	12,0	141
24	6	-	4	2,2	N/A	2,00/1,40	12,0	143
36	6	-	6	2,2	N/A	2,00/1,40	12,0	144
48	6	-	8	2,2	N/A	2,00/1,40	12,0	144
72	6	-	12	2,2	N/A	2,00/1,40	12,0	145
96	8	-	12	2,2	3,4	2,00/1,40	13,2	169
144	12	-	12	2,2	6,2	2,00/1,40	16,0	233
288	24	-	12	2,2	4,5	2,00/1,40	18,0	294

MECHANICAL AND ENVIRONMENTAL PROPERTIES		
Physical Tests	Conditions	Standard
Tensile Strength	3000 N Tensile Strength (Installation) 1500 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)	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.