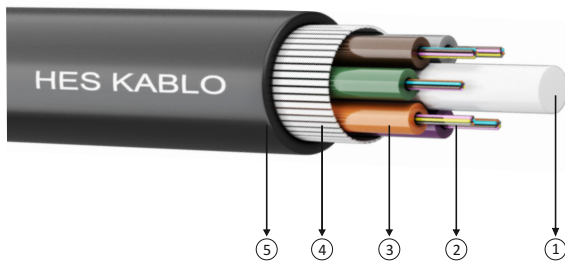




OUTDOOR CABLES | Multi Loose Tube, Single Sheath, Non-metallic Armoured



- 1 Central Strength Member
- 2 Fiber
- 3 Loose Tube
- 4 Aramid/Glass Yarn
- 5 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 : Dielectric Armour

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

Applications

They are used in a pipe made of HDPE etc. materials in long range and local communication networks or directly burying in the ground.

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 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) *
8	1	5	8	2,2	N/A	2,00/1,40	12,0	110
12	1	5	12	2,2	N/A	2,00/1,40	12,0	110
16	2	4	8	2,2	N/A	2,00/1,40	12,0	110
24	6	-	4	2,2	N/A	2,00/1,40	12,0	113
36	6	-	6	2,2	N/A	2,00/1,40	12,0	113
48	6	-	8	2,2	N/A	2,00/1,40	12,0	113
72	6	-	12	2,2	N/A	2,00/1,40	12,0	114
96	8	-	12	2,2	3,4	2,00/1,40	13,2	135
144	12	-	12	2,2	6,2	2,00/1,40	16,0	191
288	24	-	12	2,2	4,5	2,00/1,40	18,0	246

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	-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.