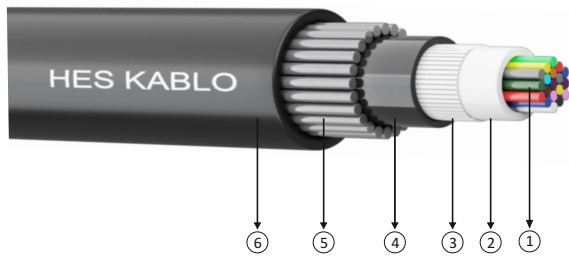




OUTDOOR CABLES | Single Loose Tube, Steel Wire Armoured (SWA) Cables



- 1 Central Strength Member
- 2 Fiber
- 3 Loose Tube
- 4 Inner Sheath
- 5 Steel Wire Armour
- 6 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 : Black LDPE, Thickness nominal $1,0 \pm 0,1$ mm.

Armour : Steel Wire 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

Colored fibers are placed in the central Loose tube. Then they are covered with intercardinal cover using aramid / glass yarns. Round steel wires is used as a shield. They are covered with MDPE material.

TECHNICAL PROPERTIES

Number Of Fiber	Loose Tube Outer/Inner Diameter (mm)*	Cable Diameter *	Cable Weight (Kg/km) *
4	3,0/2,0	10,6	182
6	3,0/2,0	10,6	182
8	3,0/2,0	10,6	182
12	3,0/2,0	10,6	182
16	3,0/2,0	10,6	182
24	3,0/2,0	10,6	182

MECHANICAL AND ENVIRONMENTAL PROPERTIES

Physical Tests	Conditions	Standard
Tensile Strength	600 N Tensile Strength (Installation) 300 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	-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.