

Technical Offer For Cables Generally to BS 6724

General Information:

-Short Description:	CU/XLPE/SWA/LSOH
-Voltage:	0.6 / 1 (1.2) Kv
-Conductor:	Stranded Plain Copper Conductor according to IEC 60228 Class 2/Compacted for 10mm ² and 16mm ²
-Insulation / Temperature:	Cross Linked Polyethylene according to IEC 60502-1 (XLPE) / 90°C
-Bedding Before Armouring:	Low smoke Halogen Free / 90°C / Black
-Armouring:	Galvanized Steel Wires
-Sheathing Material / Temp. / Color:	Low smoke Halogen Free / 90°C / Black

Cable Marking for cables up to and including 5 cores:

= EL SEWEDY CABLES = BASEC BS 6724 H No. of cores x size mm² CU/XLPE/SWA/LSOH ELECTRIC CABLE 600/1000 V Manufacturing Year Meter Marking
For cables with outer diameter > 15 mm, An other line will be Printed as follow "= EL SEWEDY CABLES = ELECTRIC CABLE 600/1000 V BS 6724"

Cable Marking for cables more than 5 cores:

= EL SEWEDY CABLES = BASEC BS 6724 No. of cores x size mm² CU/XLPE/SWA/LSOH ELECTRIC CABLE 600/1000 V AUX Manufacturing Year Meter Marking
For cables with outer diameter > 15 mm, An other line will be Printed as follow "= EL SEWEDY CABLES = ELECTRIC CABLE 600/1000 V AUX BS 6724"

Printing Type: Embossed

Core Identification:

- 3 Cores: Brown, Black, Grey
- 4 Cores: Blue, Brown, Black, Grey
- 5 Cores: Blue, Brown, Black, Grey, G/Y
- > 5 Cores: White Coloured Cores With Black Numbers
- Polypropylene binder tape(s) and/or fillers may be used when necessary according to manufacturing process

Packing:

- Cable shall be supplied in lengths as indicated in technical schedule on non returnable wooden reels up to the manufacturer.
- Both ends of the cable shall be sealed to prevent the ingress of moisture during transportation and storage.
- Each reel shall be marked with type, size and length of Cable, and weight.
- This information shall be written on metallic tag nailed properly to the flange.
- Cutting lengths is 500 m ± 5% on each reel for 19 cores cables and above, and 1000 m ± 5% for other cables.
- Metering on cable outer sheath will be started from "X" to "X+999" m for 1000m cutting lengths and to "X+499" m for 500m cutting lengths

Cable Properties:

- Outer sheath will be flame retardant according IEC 60332 Part 3 Cat C
- Cable smoke emission will be according to IEC 61034-2
- Cable acid gas emission will be according to IEC 60754-1

Tests:

- Routine tests generally to BS 6724 are performed on the cables and test certificate will be supplied on request.
- Electrical Resistance of the conductors shall be tested on IEC 60228.
- Voltage Test: No breakdown of The insulation shall be occurred, The applied Voltage and duration will be according to BS 6724
- Hot Set Test for XLPE insulation according to IEC 60502-1

Electrical Data:

Maximum conductor operating temperature:	90	°C
Maximum conductor temperature during S.C:	250	°C
Laying conditions at trefoil formation are as below:		
-Soil thermal resistivity	120	°C.Cm/Watt
-Burial depth	0.5	m
-Ground temperature	35	°C
-Air temperature	40	°C
-Frequency	50	Hz
-Cables must be protected from direct solar radiation and other thermal sources in the neighborhood.		

Specifications:

No. of Cores	Size (mm ²)	Approx. Outer Diam. (mm)	Approx. Cable Weight (Kg/Km)	Min. Bending Radius (mm)	Max. Conductor DC Resistance at 20 °C (Ω/Km)	Conductor AC Resistance at Max. Operating Temp. and 50Hz (Ω/Km)
3	1.5	11.4	255	228	12.1	15.43
3	2.5	13	331	260	7.41	9.45
3	4	14.1	404	282	4.61	5.88
3	6	15.4	504	308	3.08	3.93
3	10	17.5	747	350	1.83	2.33
4	16	19.7	985	394	1.15	1.47
4	1.5	12.1	287	242	12.1	15.43
4	2.5	13.9	376	278	7.41	9.45
4	4	15.1	481	302	4.61	5.88
4	6	17.5	687	350	3.08	3.93
4	10	18.9	876	378	1.83	2.33
4	16	21.3	1191	426	1.15	1.47
5	1.5	13.1	331	262	12.1	15.43
5	2.5	14.8	439	296	7.41	9.45
5	4	16.4	551	328	4.61	5.88
5	6	18.7	797	374	3.08	3.93
5	10	20.3	1022	406	1.83	2.33
5	16	24.3	1549	486	1.15	1.47
7	1.5	14.2	373	284	12.1	15.43
7	2.5	16.1	494	322	7.41	9.45
12	1.5	18.3	633	366	12.1	15.43
12	2.5	21	834	420	7.41	9.45

-The above data is approximate and subjected to manufacturing tolerance.