



• Application

The 0.6/1kV Multi Core XLPE SWA LSZH Cable is designed for power and auxiliary fixed wiring applications in power networks. It is suitable for use in underground installations, as well as outdoor and indoor environments, including cable ducting. This cable is ideal for installations where fire safety, low smoke emission, and minimal toxic fumes are critical to protect life and equipment.

• Performance

Electrical Performance: U_0/U : 0.6/1kV

Chemical Performance: Resistant to chemicals, UV radiation, and oil

Mechanical Performance:

Minimum Bending Radius:

1.5mm² to 16mm²: Fixed: 6 x overall diameter

25mm² and above: Fixed: 8 x overall diameter

Thermal Performance:

Maximum Service Temperature: 90°C

Maximum Short-Circuit Temperature: 250°C (Max. 5s)

Fire Performance:

Flame Retardant according to BS EN/IEC 60332-1-2 and BS EN/IEC 60332-3-24 Cat C standards

• Construction

Conductor: Class 2 stranded copper conductor or circular stranded aluminum conductor

Insulation: XLPE (Cross-linked polyethylene)

Bedding: LSZH (Low Smoke Zero Halogen)

Armoring: SWA (Steel Wire Armour)

Sheath: LSZH (Low Smoke Zero Halogen)

Core Identification:

Two cores: Brown, Blue

Three cores: Brown, Black, Gray or Blue, Brown, Green/Yellow

Four cores: Brown, Black, Blue, Gray or Brown, Black, Gray, Green/Yellow

Five cores: Brown, Blue, Black, Gray, Green/Yellow

Seven cores and above: White cores with Black numbers

Sheath Colour: Black

• Specification

-BS 6724, BS EN/IEC 60228, BS EN/IEC 60754-1/2, BS EN 50267-2-1, BS EN/IEC 60502-1, BS EN/IEC 61034-2 Standard

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Physical Performance and Resistance											
No. of Cores	Nominal Cross Section Area	Min. Number of Individual Wires in Conductor						Nominal Thickness of Insulation	Dia. of Armour Wire	Max. D.C. Resistance of Conductor at 20°C	
		Circular		Circular Compact		Sectorial				Cu	Al
-	mm ²	-	-	-	-	-	-	mm	mm	Ω/km	Ω/km
2,3,4,5,7,12,19,27,37	1.5	0.6	7	-	6	-	-	-	12.1	-	-
2,3,4,5,7,12,19,27,37	2.5	0.7	7	-	6	-	-	-	7.41	-	-
2,3,4,5,7	4	0.7	7	-	6	-	-	-	4.61	-	-
2,3,4,5	6	0.7	7	-	6	-	-	-	3.08	-	-
2,3,4,5	10	0.7	7	7	6	6	-	-	1.83	-	-
2,3,4,5	16	0.7	7	7	6	6	-	-	1.15	-	1.91
2,3,4,5	25	0.9	7	7	6	6	6	6	0.727	-	1.2
2,3,4,5	35	0.9	7	7	6	6	6	6	0.524	-	0.868
2,3,4,5	50	1	19	19	6	6	6	6	0.387	0,641	0.641
2,3,4	70	1.1	19	19	12	12	12	12	0.268	0,443	0.443
2,3,4	95	1.1	19	19	15	15	15	15	0.193	0,32	0.32
2,3,4	120	1.2	37	37	18	15	18	15	0.158	0,253	0.253
2,3,4	150	1.4	37	37	18	15	18	15	0.124	0,206	0.206
3,4	185	1.6	37	37	30	30	30	30	0.0991	0,164	0.164
3,4	240	1.7	37	37	34	30	34	30	0.0754	0,125	0.125
3,4	300	1.8	61	61	34	34	34	34	0,0601	0,1	0.1
3,4	400	61	61	53	53	53	53	2	3.15	0.047	0.0778

● Technical Parameters

Nominal Cross Section Area	Electrical Performance(Current Carrying Capacity of copper conductor)					
	Reference Method C (Clipped Direct)		Reference Method E (in Free Air or on a Perforated Cable Tray Horizontal or Vertical)		Reference Method D (Direct in Ground or in Ducting Ground in or Around Buildings)	
	1 two core cable single- phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C.	1 two core cable single- phas A.C. or D.C.	1 three or 1 four core cable three-phase A.C.	1 two core cable single- phase A.C. or D.C.	1 three or 1 four core cable three-phase A.C.
mm ²	A	A	A	A	A	A
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44
10	85	73	90	78	71	58
16	110	94	115	99	91	75
25	146	124	152	131	116	96
35	180	154	188	162	139	115
50	219	187	228	197	164	135
70	279	238	291	251	203	167
95	338	289	354	304	239	197
120	392	335	410	353	271	223
150	451	386	472	406	306	251
185	515	441	539	463	343	281
240	607	520	636	546	395	324
300	698	599	732	628	446	365
400	787	673	847	728	-	-