



• Application

The XLPE insulated low smoke zero halogen (LSZH) power cables, also known as 0.6/1kV Single Core AWA LSZH Power Cables, are designed for use in residential, commercial, and industrial facilities. Typical applications include power supply for lighting and power circuits in environments such as factories, power plants, subways, underground tunnels, and high-rise structures. These cables are suitable for fixed installations both indoors and outdoors, including cable trays, tunnels, and conduits.

• Performance

Voltage Rating: U_0/U : 0.6/1kV
 Temperature Rating: Fixed installation: -20°C to +90°C
 Minimum Bending Radius: Fixed installation: 6 x overall diameter
 Thermal Performance:
 Maximum Service Temperature: 90°C
 Maximum Short-Circuit Temperature: 250°C (for a maximum of 5 seconds)
 Minimum Service Temperature: -10°C
 Fire Performance:
 Low Smoke Zero Halogen: Complies with IEC/EN 60754-1/2 and IEC/EN 61034-2 standards
 Flame Retardant: Meets IEC/EN 60332-1-2 and IEC/EN 60332-3-24 Cat C standards

• Construction

Conductor: Circular stranded aluminum conductor or class 2 stranded copper conductor
 Insulation: XLPE (Cross-linked polyethylene)
 Bedding: LSZH (Low Smoke Zero Halogen)
 Armoring: AWA (Aluminum Wire Armour)
 Sheath: LSZH (Low Smoke Zero Halogen)
 Core Identification:
 Single Core: Brown
 Sheath Colour: Black

• Specification

-BS 6724, IEC/EN 60502-1, EN 60228 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	Nominal Thickness of Insulation	Min. Number of Individual Wires in Conductor						Maximum Resistance of Conductor at 20°C	
			Circular		Circular Compact		Shaped			
			Copper	Aluminum	Copper	Aluminum	Copper	Aluminum	Copper	Aluminum
-	mm ²	mm	-	-	-	-	kg/km	kg/km	Ω/km	Ω/km
1	50	1	19	19	6	6	6	6	0.387	0.641
1	70	1.1	19	19	12	12	12	12	0.268	0.443
1	95	1.1	19	19	15	15	15	15	0.193	0.32
1	120	1.2	37	37	18	18	18	18	0.153	0.253
1	150	1.4	37	37	18	15	18	15	0.124	0.206
1	185	1.6	37	37	18	15	18	15	0.0991	0.164
1	240	1.7	37	37	34	30	34	30	0.0754	0.125
1	300	1.8	61	61	34	30	34	30	0.0601	0.1
1	400	2	61	61	53	53	53	53	0.047	0.0778
1	500	2.2	91	91	53	53	53	53	0.475	0.0605
1	630	2.4	91	91	53	53	53	53	0.0283	0.0469
1	800	2.6	91	91	53	53	-	-	0.0221	-
1	1000	2.8	91	91	53	53	-	-	0.0176	-

Nominal Cross Section Area	Electrical Performance(Current Carrying Capacity of copper conductor)										
	Reference Method C (Clipped Direct)			Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)							
	Touching		Three Cables Single-Phase A.C. or D.C. Flat	Touching		Spaced By One Cable Diameter					
	Two Cables Single Phase A.C. or D.C. Flat	Three or Four Cables Three Phase A.C. Flat		Three Cables Three-Phase A.C. Flat	Three Cables Three-Phase A.C. Trefoil	Two Cables D.C.		Two Cables Single Phase A.C.		Three or Four Cables Three-Phase A.C.	
						Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
mm ²	A	A	A	A	A	A	A	A	A	A	A
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	322	293	285	356	349	357	337	358	331
95	367	333	389	352	346	446	426	436	412	425	393
120	425	383	449	405	402	519	497	504	477	485	449
150	488	437	516	462	463	600	575	566	539	549	510
185	557	496	587	524	529	688	660	643	614	618	574
240	656	579	689	612	625	815	782	749	714	715	666
300	755	662	792	700	720	943	906	842	805	810	755
400	853	717	899	767	815	1137	1094	929	889	848	797
500	962	791	1016	851	918	1314	1266	1032	989	923	871
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041