



• Application

BS 6724 LV XLPE Insulated Armoured LSZH Power Cables are designed for low voltage applications and are suitable for power networks, underground installations, outdoor usage, and cable ducting. They are particularly suitable for environments where there is a risk of fire, smoke emission, and toxic fumes endangering life and equipment.

• Performance

Voltage Rating U_0/U (Um): Available in 0.6/1kV and 1.9/3.3kV ratings

Mechanical Performance:

Single core: Minimum bending radius of 15 x overall diameter

Three cores: Minimum bending radius of 12 x overall diameter

Thermal Performance:

Maximum operating temperature: 90°C

Maximum short-circuit temperature: 250°C (Max. 5s)

Minimum service temperature: -10°C

Fire Performance:

Flame retardant according to IEC/EN 60332-1-2 standard

Reduced emission of halogens chlorine <15%

• Construction

Conductor: Stranded compacted copper conductor or aluminum conductor

Insulation: XLPE (Cross-linked Polyethylene)

Bedding: LSZH (Low Smoke Zero Halogen) or HFFR (Halogen Free Flame Retardant)

Armour:

Single-core conductor: AWA (Aluminum Wire Armoring)

Multi-core conductor: SWA (Steel Wire Armoring)

Outer Sheath: LSZH (Low Smoke Zero Halogen) or HFFR (Halogen Free Flame Retardant)

Sheath Colour: Brown, black, gray, or other available colors as per request

• Specification

-BS 6724, IEC/EN 60228, IEC 60502-1

-Low Smoke Zero Halogen is in accordance with IEC/EN 60754-1/2, IEC/EN 61034-1/2

-Flame Retardant is in accordance with BS EN/IEC 60332-1-2, BS EN/IEC 60332-3-24

• 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						Max. D.C. Resistance of Conductor at 20°C	
		Circular		Circular Compact		Sectorial		Cu	Al
		Cu	Al	Cu	Al	Cu	Al		
-	mm ²	-	-	-	-	-	-	Ω/km	Ω/km
2,3,4,5	1.5	7	-	6	-	-	-	12.1	-
2,3,4,5	2.5	7	-	6	-	-	-	7.41	-
2,3,4,5	4	7	-	6	-	-	-	4.61	-
2,3,4,5	6	7	-	6	-	-	-	3.08	-
2,3,4,5	10	7	7	6	6	-	-	1.83	1.83
2,3,4,5	16	7	7	6	6	-	-	1.15	1.15
2,3,4,5	25	7	7	6	6	6	6	0.727	0.727
2,3,4,5	35	7	7	6	6	6	6	0.524	0.524
2,3,4,5	50	19	19	6	6	6	6	0.387	0.387
2,3,4	70	19	19	12	12	12	12	0.268	0.268
2,3,4	95	19	19	15	15	15	15	0.193	0.193
2,3,4	120	37	37	18	15	18	15	0.158	0.158
2,3,4	150	37	37	18	15	18	15	0.124	0.124
3,4	185	37	37	30	30	30	30	0.0991	0.124
3,4	240	37	37	34	30	34	30	0.0754	0.0754
3,4	300	61	61	34	30	34	30	0.0601	0.0601
3,4	400	61	61	53	53	53	53	0.0470	0.0471

● 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	amp	amp	amp	amp	amp	amp
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	364
400	787	673	847	728	-	570

Note:

Air ambient temperature:30℃

Ground ambient temperature: 20℃

Conductor operating temperature: 90℃