



• Application

BS 7835 XLPE Insulated Medium Voltage LSZH Power Cables are ideal for power networks, underground installations, outdoor use, and cable ducting. They are specifically designed for environments where there is a risk of fire, smoke emission, and toxic fumes posing a threat to life and equipment.

• Performance

Voltage Rating $U_0/U(\text{Um})$: Available in various ratings including 3.8/6.6(7.2)kV; 6.35/11(12)kV; 8.7/15(17.5)kV; 12.7/22(24)kV; 19/33(36)kV

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

Conductor Screen: Semi-conductive compound

Insulation: XLPE (Cross-linked Polyethylene)

Insulation Screen: Semi-conductive compound

Metallic Screen: Concentric copper wires and copper tape

Filler: PET (Polyethylene Terephthalate) fibers

Separator: Binding tape

Inner Sheath: LSZH (Low Smoke Zero Halogen)

Armour:

Single-core conductor: AWA (Aluminum Wire Armoring)

Multi-core conductor: SWA (Steel Wire Armoring)

Outer Sheath: LSZH (Low Smoke Zero Halogen)

Sheath Colour: Red, black, blue, or other available colors as per request

• Specification

-BS 7835, IEC/EN 60228, IEC 60502-2

-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 Parameters							
No. of Cores	Nominal Cross Section Area	Min. No. of Individual Wires in Conductor					
		Circular		Circular Compact		Sectoral	
		Cu	Al	Cu	Al	Cu	Al
-	mm ²	-	-	-	-	-	-
1	70	19	19	12	12	12	12
1	95	19	19	15	15	15	15
1	120	37	37	18	15	18	15
1	150	37	37	18	15	18	15
1	185	37	37	30	30	30	30
1	240	37	37	34	30	34	30
1	300	61	61	34	30	34	30
1	400	61	61	53	53	53	53
1	500	61	61	53	53	53	53
1	630	91	91	53	53	53	53
1	800	91	91	53	53	-	-
1	1000	91	91	53	53	-	-
3	50						
3	70	19	19	12	12	12	12
3	95	19	19	15	15	15	15
3	120	37	37	18	15	18	15
3	150	37	37	18	15	18	15
3	185	37	37	30	30	30	30
3	240	37	37	34	30	34	30
3	300	61	61	34	30	34	30
3	400	61	61	53	53	53	53

● Technical Parameters

Electrical Performance Parameters(copper conductor)								
No. of Cores	Nominal Cross Section Area	Max. D.C. Resistance of Conductor at 20℃	Continuous Current Rating					
			in ground		in duct		in air	
			flat	trefoil	flat	trefoil	flat	trefoil
-	mm ²	Ω/km	amp	amp	amp	amp	amp	amp
1	70	0.268	270	280	260	270	310	370
1	95	0.193	320	335	305	325	375	460
1	120	0.153	360	380	340	370	430	530
1	150	0.124	410	430	375	410	490	600
1	185	0.0991	455	485	410	460	550	690
1	240	0.0754	520	560	470	540	650	820
1	300	0.0601	580	640	500	610	740	940
1	400	0.047	650	730	530	690	840	1100
1	500	0.0366	710	830	570	780	930	1280
1	630	0.0283	760	940	620	890	1040	1480
1	800	0.0221	810	1060	660	990	1140	1690
1	1000	0.0176	860	1170	690	1090	1230	1900
3	50	0.387	210	210	180	180	220	220
3	70	0.268	250	250	215	215	270	270
3	95	0.193	300	300	255	255	330	330
3	120	0.153	340	340	290	290	380	380
3	150	0.124	380	380	330	330	430	430
3	185	0.0991	430	430	370	370	490	490
3	240	0.0754	500	500	430	430	570	570
3	300	0.0601	540	540	470	470	650	650