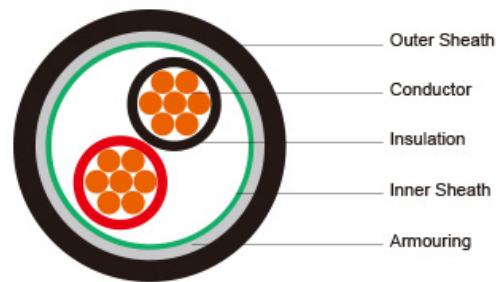


**600/1000V LSZH Sheathed, armoured (2cores)**



**Application:** The cables is mainly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings.

**Standard:** Basic design to IEC 60502-1

**FIRE PERFORMANCE**

<b>Flame Retardance (Single Vertical Wire Test)</b>	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1; CEI 20-35/1-2; EN 50265-2-1; DIN VDE 0482-265-2-1
<b>Reduced Fire Propagation (Vertically-mounted bundled wires &amp; cable test)</b>	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; CEI 20-22/3-4; EN 50266-2- 4; DIN VDE 0482-266-2-4
<b>Halogen Free</b>	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1
<b>No Corrosive Gas Emission</b>	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2
<b>minimum Smoke Emission</b>	IEC 61034-1&2; EN 61034 -1&2; DIN VDE 0482-1034-1&2; CEI 20-37/3-1&2; EN 50268-1&2; BS 7622-1&2
<b>No Toxic gases</b>	NES 02-713

**VOLTAGE RATING**

600/1000V

**CABLE CONSTRUCTION**

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Extruded cross-linked XLPE compound.

Screen: Copper Tape

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1 (Thermosetting LSZH compound type SW2-SW4 as per BS 7655-2.6 can be offered.)

**COLOUR CODE**

Insulation Colour: Red, Yellow, Blue, Green/Yellow (x3)

Outer sheath: Black or as order

	with earth conductor	without earth conductor
<b>2Cores</b>		Brown,Blue
<b>3Cores</b>	Yellow/Green,Brown,Blue	Brown,Gray,Black

<b>4Cores</b>	Yellow/Green,Brown,Gray,Black	Brown,Gray,Black,Blue
<b>5Cores</b>	Yellow/Green,Brown,Gray,Black,Blue	Brown,Gray,Black,Blue,Black
<b>above 5 Cores</b>	Yellow/Green,Black Numbered	Black Numbered

Sheath Colour: Black

**Physical AND THERMAL PROPERTIES**

Temperature range during operation: Max.90°C for XLPE

250°C in short-circuit for 5s max.

Minimum bending radius: 10x Overall Diameter

**CONSTRUCTION PARAMETERS**

No. of Core X Cross Section	No./Nominal Diameter of Strands	Combined Earth Size	Nominal Insulation Thickness	Steel Tape Thickness	Nominal Sheath Thickness	Nominal Overall Diameter	Max.DC resistance of conductor @20°C	Approx. Weight
mm <sup>2</sup>	No/mm	mm	mm	mm	mm	mm	Ω/km	Kg/km
2x6	7/1.04	2.90	0.7	0.2	1.8	16.8	3.08	417
2x10	7/1.35	3.75	0.7	0.2	1.8	18.5	1.83	539
2x16	7/1.70	4.75	0.7	0.2	1.8	20.5	1.15	704
2x25	7/2.14	5.85	0.7	0.2	1.8	23.5	0.727	971
2x35	7/2.52	6.90	0.9	0.2	1.8	25.6	0.524	1216
2x50	19/1.78	8.15	1.0	0.2	1.9	28.5	0.387	1582
2x70	19/2.14	9.75	1.1	0.2	1.9	32.3	0.268	3081
2x95	19/2.52	11.45	1.1	0.2	2.0	36.4	0.193	2749
2x120	37/2.03	12.85	1.2	0.5	2.2	41.1	0.153	3727
2x150	37/2.25	14.30	1.4	0.5	2.3	45.1	0.124	4509
2x185	37/2.52	15.95	1.6	0.5	2.5	49.9	0.0991	5523
2x240	61/2.25	18.25	1.7	0.5	2.6	55.3	0.0754	6981
2x300	61/2.52	20.40	1.8	0.5	2.8	60.7	0.0601	8383
2x400	61/2.85	23.35	2.0	0.5	3.0	67.9	0.0470	10897

**Electrical PROPERTIES**

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

**Current-Carrying Capacities (Amp)**

Conductor cross-sectional area	Reference Method 1 (clipped direct		Reference Method 11 (on a perforated horizontal cable tray Reference Method 13 [free air] )		In single-way ducts		Laid direct in ground	
	one core cable single phase a.c. or d.c.	2- core or 4- core cable 3- phase a.c.	one core cable single phase a.c. or d.c.	2- core or 4- core cable 3- phase a.c.	one core cable single phase a.c. or d.c.	2- core or 4- core cable 3- phase a.c.	one core cable single phase a.c. or d.c.	2- core or 4- core cable 3- phase a.c.
1	2	3	4	5	6	7	8	9
mm <sup>2</sup>	A	A	A	A	A	A	A	A
6	62	53	66	56	-	50	-	60
10	85	73	90	78	-	65	-	80
16	110	94	115	99	115	94	140	115
25	146	124	152	131	145	125	180	150
35	180	154	188	162	175	150	215	180
50	219	187	228	197	210	175	255	215
70	279	238	291	251	260	215	315	265
95	338	289	354	304	310	260	380	315
120	392	335	410	353	355	300	430	360
150	451	386	472	406	400	335	480	405
185	515	441	539	463	455	380	540	460
240	607	520	636	546	520	440	630	530
300	698	599	732	628	590	495	700	590
400	787	673	847	728	660	560	790	670

**Voltage Drop (Per Amp Per Meter)**

Conductor cross-sectional area	2-core cable d.c.	2 cables, single-phase a.c.	3 or 4 cables, 3-phase a.c.	2 cables, single-phase a.c.	3 or 4 cables, 3-phase a.c.
				In ducts or in ground	In ducts or in ground
1	2	3	4	5	6
mm <sup>2</sup>	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
6	7.9	7.9	6.8	7.9	6.5
10	4.7	4.7	4.0	4.7	3.9

16	2.9	2.9			2.5			2.9	2.6
		r	x	z	r	x	z		
25	1.850	1.350	0.160	1.900	1.600	0.140	1.650	1.900	1.600
35	1.350	1.350	0.155	1.350	1.150	0.135	1.150	1.350	1.200
50	0.980	0.990	0.155	1.000	0.860	0.135	0.870	1.000	0.870
70	0.670	0.670	0.150	0.690	0.590	0.130	0.600	0.690	0.610
95	0.490	0.500	0.150	0.520	0.430	0.130	0.450	0.520	0.450
120	0.390	0.400	0.145	0.420	0.340	0.130	0.370	0.420	0.360
150	0.310	0.320	0.145	0.350	0.280	0.125	0.300	0.350	0.300
185	0.2500	0.260	0.145	0.290	0.220	0.125	0.260	0.290	0.250
240	0.195	0.200	0.140	0.240	0.175	0.125	0.210	0.240	0.210
300	0.155	0.160	0.140	0.210	0.140	0.120	0.185	0.210	0.190
400	0.120	0.130	0.140	0.190	0.115	0.120	0.165	0.190	0.180