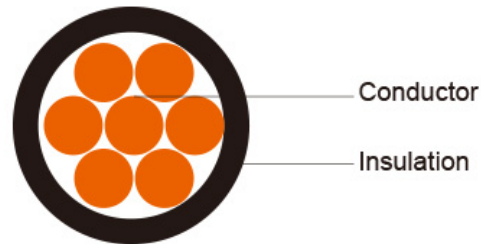


600/1000V LSZH Insulated (single core)



Application:	The cables are mainly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings.
Standard:	Basic design to BS 7211

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	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
Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)	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
Halogen Free	IEC 60754-1; EN 50267-2-1; DIN VDE 0482-267-2-1; CEI 20-37/2-1 ; BS 6425-1
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2; DIN VDE 0482-267-2-2; CEI 20-37/2-2 ; BS 6425-2
minimum Smoke Emission	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
No Toxic gases	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.

COLOUR CODE

Insulation colour as per bs7671

	with earth conductor	without earth conductor
2Cores	-	Brown,Blue
3Cores	Yellow/Green,Brown,Blue	Brown,Gray,Black
4Cores	Yellow/Green,Brown,Gray,Black	Brown,Gray,Black,Blue
5Cores	Yellow/Green,Brown,Gray,Black,Blue	Brown,Gray,Black,Blue,Black

above 5 Cores

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: 8 x Overall Diameter

CONSTRUCTION PARAMETERS

Conductor		Insulated, Non-Sheathed				
No. of Core X Cross Section	No./ Nominal Diameter Of Strands	Nominal Insulation Thickness	Nominal Overall Diameter	Approx. Weight		
Noxmm2	No./mm	mm	mm	kg/km		
1x1.5	7/0.53	0.7	3.1	22		
1x2.5	7/0.67	0.8	3.7	34		
1x4	7/0.85	0.8	4.3	50		
1x6	7/1.04	0.8	4.8	70		
1x10	7/1.35	1.0	6.2	116		
1x16	7/1.70	1.0	7.2	174		
1x25	7/2.14	1.2	9.0	276		
1x35	7/2.52	1.2	10.0	366		
1x50	19/1.78	1.4	11.9	502		
1x70	19/2.14	1.4	13.7	706		
1x95	19/2.52	1.6	16.0	974		
1x120	37/2.03	1.6	17.6	1213		
1x150	37/2.25	1.8	19.6	1492		
1x185	37/2.52	2.0	21.8	1868		
1x240	61/2.25	2.2	24.4	2443		
1x300	61/2.52	2.4	27.7	3055		
1x400	61/2.85	2.6	31.1	3888		
1x500	61/3.20	2.8	34.6	4880		
1x630	127/2.52	2.8	38.6	6229		

Electrical PROPERTIES

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

Current-Carrying Capacities (Amp)

Conductor cross-sectional area	Reference Method 4 (enclosed in conduit in thermally insulating wall etc)		Reference Method 3 (enclosed in conduit on a wall or in trunking etc)		Reference Method 1 (clipped direct)		Reference Method 11 (on a perforated cable tray, horizontal or vertical)		Reference Method 12 (free air)		
	2 cables, single phase a.c. or d.c.	3 or 4 cables, 3-phase a.c.	2 cables, single phase a.c. or d.c.	3 or 4 cables, 3-phase a.c.	2 cables, single phase a.c. or d.c. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	2 cables, single phase a.c. or d.c. flat and touching	3 or 4 cables, 3-phase a.c. flat and touching or trefoil	Horizontal flat spaced	Vertical flat spaced	Trefoil
1	2	3	4	5	6	7	8	9	10	11	12
mm2	A	A	A	A	A	A	A	A	A	A	A
1.5	18	17	22	19	25	23	-	-	-	-	-
2.5	24	23	30	26	34	31	-	-	-	-	-
4	33	30	40	35	46	41	-	-	-	-	-
6	43	39	51	45	59	54	-	-	-	-	-
10	58	53	71	63	81	74	-	-	-	-	-
16	76	70	95	85	109	99	-	-	-	-	-
25	100	91	126	111	143	130	158	140	183	163	138
35	125	111	156	138	176	161	195	176	226	203	171
50	149	135	189	168	228	209	293	215	274	246	209
70	189	170	240	214	293	268	308	279	351	318	270
95	228	205	290	259	355	326	375	341	426	389	330
120	263	235	336	299	413	379	436	398	495	453	385
150	300	270	375	328	476	436	505	461	570	524	445
185	341	306	426	370	545	500	579	530	651	600	511
240	400	358	500	433	644	590	686	630	769	711	606
300	459	410	573	493	743	681	791	730	886	824	701
400	-	-	684	584	868	793	915	849	1065	994	820

Voltage Drop (Per Amp Per Meter)

Nominal Cross Section Area	2 cable s d.c.	2 cables, single-phase a.c.						3 or 4 cables, 3-phase a.c.								
		Ref. Methods 3 and 4 (enclosed in conduit etc, in or on a wall)			Ref. Methods 1 and 11 (clipped direct or on trays touching)			Ref. Methods 3 and 4 (enclosed in conduit etc, in or on a wall)			Ref. Methods 1, 11 and 12 (in trefoil)			Ref. Methods 1 and 11(Flat and touching)		
1	2	3			4			5			6			7		
mm ²	mV/A/m	mV/A/m			mV/A/m			mV/A/m			mV/A/m			mV/A/m		
1.5	31	31			27			27			27			27		
2.5	19	19			16			16			16			16		
4	33	12			10			10			10			10		
6	7.8	7.9			6.8			6.8			6.8			6.8		
10	4.7	4.7			4.7			4			4			4		
16	2.9	2.9			2.9			2.5			2.5			2.5		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
25	1.85	1.85	0.31	1.90	1.85	0.190	1.85	1.60	0.27	1.65	1.60	0.165	1.60	1.60	0.190	1.60
35	1.35	1.35	0.29	1.35	1.35	0.180	1.35	1.15	0.25	1.15	1.15	0.155	1.50	1.15	0.180	1.15
50	0.99	1.00	0.29	1.05	0.99	0.180	1.00	0.87	0.25	0.90	0.86	0.155	0.87	0.86	0.180	0.87
70	0.68	0.70	0.28	0.75	0.68	0.175	0.71	0.60	0.24	0.65	0.59	0.150	0.61	0.59	0.175	0.62
95	0.49	0.51	0.27	0.58	0.49	0.170	0.52	0.44	0.23	0.50	0.43	0.145	0.45	0.43	0.170	0.46
120	0.39	0.41	0.26	0.48	0.39	0.165	0.43	0.35	0.23	0.42	0.34	0.140	0.37	0.34	0.165	0.38
150	0.32	0.33	0.26	0.43	0.32	0.165	0.36	0.29	0.23	0.37	0.28	0.140	0.31	0.28	0.165	0.32
185	0.25	0.27	0.26	0.37	0.26	0.165	0.30	0.23	0.23	0.32	0.22	0.140	0.26	0.22	0.165	0.28
240	0.19	0.21	0.26	0.33	0.20	0.160	0.25	0.18	0.22	0.29	0.17	0.140	0.22	0.17	0.165	0.24
300	0.155	0.175	0.25	0.31	0.16	0.160	0.22	0.15	0.22	0.27	0.14	0.140	0.19	0.13	0.165	0.21
400	0.12	0.140	0.25	0.29	0.13	0.155	0.20	0.12	0.22	0.25	0.11	0.135	0.17	0.11	0.165	0.19
500	0.093	0.120	0.25	0.28	0.10	0.155	0.18	0.10	0.22	0.24	0.09	0.135	0.16	0.08	0.165	0.18

630	0.072	0.10 0	0.2 5	0.2 7	0.08 6	0.15 5	0.17 5	0.08 8	0.2 1	0.2 3	0.07 4	0.13 5	0.15 0	0.07 1	0.16 0	0.17 0
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