

Cu/XLPE/LSOH

XLPE Insulated, LSOH Sheathed, Unarmoured, Single Core Cables, BS8573

APPLICATION AND DESCRIPTION



- © **Conductor:** IEC 60228 or BS EN 60228 Class 2
- © **Insulation:** complying with BS7655 requirements for type GP8
 - **Identification:** Natural, Blue, Brown, Black, Gray, Green/ Yellow
 - Other color available upon request
- © **Sheath:** LSOH according to BS7655-6.1 LTS 4
 - Black color, other colors available upon request

APPLICABLE STANDARDS

- © **Design guidelines:** BS 8573
- © **Flame retardant properties:** BS EN 60332-1-2, BS EN 60332-3-24
- © **Halogen properties:** BS EN 60754-1
- © **Low smoke performance:** BS EN 61034-2
- © **Insulation resistance:** BS 6469
- © Other flame-retardant class can be designed according to customer requirements
- © According to the application environment, the anti-rodent, anti-termite and UV resistant performance can be available.

TECHNICAL CHARACTERISTICS

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Working voltage	600/1000V
Minimum bending radius	10×Overall diameter
Operating temperature	-15°C to +90°C
Insulation resistance	20MΩ·km

1/C XLPE/LSOH,BS8573

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	Current Rating			Voltage Drop		
					three phase AC flat touching free air	three phase AC trefoil touching free air	three phase AC horizontal flat spaced by one diameter free air	three phase AC trefoil flat touching free air	three phase AC flat touching free air	three phase AC horizontal flat spaced by one diameter free air
mm²	mm	kg/km	Ohms/km	kA	Amps			mV/A/m		
Single Core										
1.5	6.0	50	12.1	0.20	-	-	-	27	27	27
2.5	6.5	70	7.41	0.35	-	-	-	16	16	16
4	7.0	80	4.61	0.57	-	-	-	10	10	10
6.0	7.5	110	3.08	0.86	-	-	-	6.8	6.8	6.8
10	8.5	150	1.83	1.40	-	-	-	4.0	4.0	4.0
16	9.5	215	1.15	2.20	-	-	-	2.5	2.5	2.5
25	11.5	315	0.727	3.60	141	135	182	1.60	1.60	1.65
35	12.0	415	0.524	5.00	176	169	226	1.15	1.15	1.20
50	13.0	555	0.387	7.10	216	207	275	0.87	0.87	0.89
70	15.0	760	0.268	10.00	279	268	353	0.61	0.62	0.65
95	17.0	1025	0.193	13.60	342	328	430	0.45	0.46	0.49
120	18.5	1270	0.153	17.20	400	383	500	0.37	0.38	0.42
150	21.5	1575	0.124	21.40	464	444	577	0.31	0.32	0.37
185	23.0	1955	0.0991	26.50	533	510	661	0.26	0.28	0.33
240	26.0	2470	0.0754	34.30	634	607	781	0.22	0.24	0.29
300	28.0	3155	0.0601	42.90	736	703	902	0.195	0.21	0.27
400	32.0	4049	0.047	57.20	868	823	1085	0.175	0.195	0.26
500	36.0	5100	0.0366	71.50	998	946	1253	0.160	0.180	0.25
630	40.0	6410	0.0283	90.10	1151	1088	1454	0.150	0.170	0.24
800	47.0	8200	0.0221	114.40	1275	1214	1581	0.130	0.155	0.23
1000	52.0	9860	0.0176	143.00	1436	1349	1775	0.140	0.165	0.24

TEMPERATURE RATING FACTORS

Ambient Temperature °C	25	30	35	40	45	50	55	60	65
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65

※Note: Ambient Temperature 30°C

Conductor Operation Temperature 90°C

If current rating in buildings is required reference should be made to BS7671 (IEE Wiring Regs)

Complied with the HongKong EMSD COP, and the rating is the average of the conductor cross-sectional area and installation method, and the overall error is within ±5%