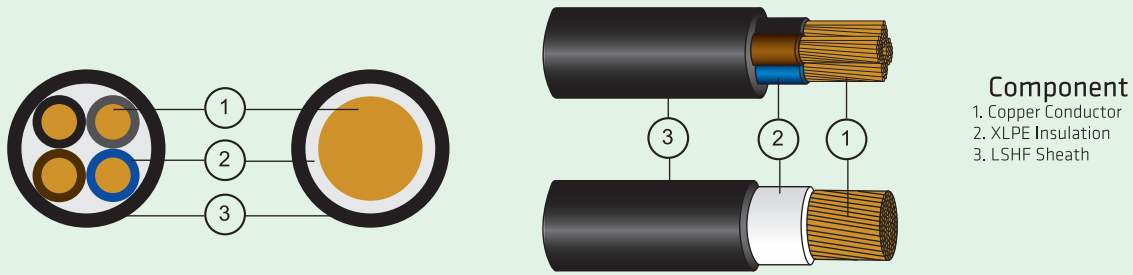


Single Core, 2-, 3-, 4-, 5-, Multicores CU/XLPE/LSHF

XLPE insulated, LSHF sheathed Cable 0.6/1kV



Component
 1. Copper Conductor
 2. XLPE Insulation
 3. LSHF Sheath

Standards Applied

Design Guide: IEC60502-1
 Conductor: IEC60228, BS6360, BS EN 60228
 Flame Retardancy: IEC60332-1-2, IEC60332-3-22
 Low Smoke & Reduced Toxicity: IEC60754-1/2, IEC61034-2

Electrical Characteristics

Operating voltage, U_0/U : 600/1000V
 Max. operating temperature: 90°C
 Final short circuit temperature: 250°C
 Test voltage: 3.5kV for 5 minutes

Installation Guide

Min. bending radius (mm) : 6 x Cable Overall Diameter (Single Core)
 Min. bending radius (mm) : 8 x Cable Overall Diameter (2-, 3-, 4-, 5-, multicores)
 Max. pulling tension (kgf) : 7 x No. of Core x Conductor Size

Construction

Conductor	Plain annealed copper wire
Insulation	An extruded layer of cross-linked polyethylene (XLPE) compound
Core Identification	Refer to Appendix F for details except single core. Single core will come with natural colour insulation.
Assembly***	Cores cabled together, supplied with filler* and covered with polyester (PETP) binder tape*
Outer Sheath	A low smoke halogen free (LSHF) compound
Outer Sheath Colour	Black

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm		kg/km
	1	1.5	0.7	1.4	5.8	49	12.1
	1	2.5	0.7	1.4	6.2	64	7.41
	1	4	0.7	1.4	6.8	80	4.61
	1	6	0.7	1.4	7.3	103	3.08
	1	10	0.7	1.4	8.5	153	1.83
	1	16	0.7	1.4	9.5	214	1.15
	1	25	0.9	1.4	11.2	318	0.727
	1	35	0.9	1.4	12.5	419	0.524
	1	50	1.0	1.4	13.7	543	0.387
	1	70	1.1	1.4	15.7	757	0.268
	1	95	1.1	1.5	18.0	1025	0.193
	1	120	1.2	1.5	19.7	1275	0.153
	1	150	1.4	1.6	21.9	1565	0.124
	1	185	1.6	1.6	24.2	1943	0.0991
	1	240	1.7	1.7	27.2	2524	0.0754
	1	300	1.8	1.8	29.9	3140	0.0601
	1	400	2.0	1.9	33.6	4003	0.047
	1	500	2.2	2.0	37.3	5000	0.0366
	1	630	2.4	2.2	42.0	6457	0.0283
	1	800	2.6	2.4	47.2	8222	0.0221
	1	1000	2.8	2.5	52.4	10295	0.0176

* Optional

*** Not available for single core cable

**CU/XLPE/LSHF, XLPE insulated, LSHF sheathed Cable, 0.6/1kV
2-, 3-, 4-, 5-, Multicores**

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm	kg/km	Ω/km
	2	1.5	0.7	1.8	9.6	122	12.1
	2	2.5	0.7	1.8	10.4	152	7.41
	2	4	0.7	1.8	11.5	198	4.61
	2	6	0.7	1.8	12.7	255	3.08
	2	10	0.7	1.8	15.2	347	1.83
	2	16	0.7	1.8	17.3	484	1.15
	2	25	0.9	1.8	20.8	708	0.727
	2	35	0.9	1.8	23.2	922	0.524
	2	50	1.0	1.8	25.8	1191	0.387
	2	70	1.1	1.8	30.1	1659	0.268
	2	95	1.1	1.9	34.1	2240	0.193
	2	120	1.2	2.0	38.2	2821	0.153
	2	150	1.4	2.2	42.4	3441	0.124
	2	185	1.6	2.3	47.2	4281	0.0991
	2	240	1.7	2.5	53.2	5570	0.0754
	2	300	1.8	2.6	58.8	6899	0.0601
	2	400	2.0	2.9	66.2	8771	0.047

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm	kg/km	Ω/km
	3	1.5	0.7	1.8	10.1	143	12.1
	3	2.5	0.7	1.8	11.0	183	7.41
	3	4	0.7	1.8	12.2	243	4.61
	3	6	0.7	1.8	13.5	319	3.08
	3	10	0.7	1.8	16.2	468	1.83
	3	16	0.7	1.8	18.5	666	1.15
	3	25	0.9	1.8	22.3	988	0.727
	3	35	0.9	1.8	25.0	1299	0.524
	3	35 sh	0.9	1.8	20.2	1220	0.524
	3	50	1.0	1.8	27.8	1691	0.387
	3	50 sh	1.0	1.8	22.6	1606	0.387
	3	70	1.1	1.9	32.7	2430	0.268
	3	70 sh	1.1	1.9	26.4	2290	0.268
	3	95	1.1	2.0	37.1	3281	0.193
	3	95 sh	1.1	2.0	29.8	3017	0.193
	3	120	1.2	2.1	41.3	4103	0.153
	3	120 sh	1.2	2.1	33.0	3891	0.153
	3	150	1.4	2.3	46.0	5040	0.124
	3	150 sh	1.4	2.3	37.1	4662	0.124
	3	185	1.6	2.4	51.2	6302	0.0991
	3	185 sh	1.6	2.4	41.3	5796	0.0991
	3	240	1.7	2.6	57.8	8187	0.0754
	3	240 sh	1.7	2.6	46.4	7414	0.0754

**CU/XLPE/LSHF, XLPE insulated, LSHF sheathed Cable, 0.6/1kV
2-, 3-, 4-, 5-, Multicores**

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm	kg/km	Ω/km
	4	1.5	0.7	1.8	11.0	178	12.1
	4	2.5	0.7	1.8	12.0	230	7.41
	4	4	0.7	1.8	13.4	313	4.61
	4	6	0.7	1.8	14.8	412	3.08
	4	10	0.7	1.8	17.7	603	1.83
	4	16	0.7	1.8	20.3	866	1.15
	4	25	0.9	1.8	24.6	1291	0.727
	4	35	0.9	1.8	27.9	1705	0.524
	4	35 sh	0.9	1.8	24.3	1639	0.524
	4	50	1.0	1.9	31.2	2261	0.387
	4	50 sh	1.0	1.9	26.7	2159	0.387
	4	70	1.1	2.0	36.4	3195	0.268
	4	70 sh	1.1	2.0	31.4	3080	0.268
	4	95	1.1	2.1	41.3	4303	0.193
	4	95 sh	1.1	2.1	35.7	4056	0.193
	4	120	1.2	2.3	46.1	5503	0.153
	4	120 sh	1.2	2.3	39.7	5245	0.153
	4	150	1.4	2.4	51.1	6727	0.124
	4	150 sh	1.4	2.4	44.6	6262	0.124
	4	185	1.6	2.6	57.1	8454	0.0991
	4	185 sh	1.6	2.6	49.7	7807	0.0991
	4	240	1.7	2.8	64.4	10977	0.0754
	4	240 sh	1.7	2.8	56.0	10027	0.0754
	4	300	1.8	3.0	71.3	13632	0.0601
	4	300 sh	1.8	3.0	61.8	12326	0.0601
	4	400	2.0	3.3	80.2	17348	0.047
	4	400 sh	2.0	3.2	69.5	16291	0.047

sh: sector shaped conductor

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm	kg/km	Ω/km
	5	1.5	0.7	1.8	11.9	189	12.1
	5	2.5	0.7	1.8	13.1	246	7.41
	5	4	0.7	1.8	14.6	338	4.61
	5	6	0.7	1.8	16.2	450	3.08
	5	10	0.7	1.8	18.8	716	1.83
	5	16	0.7	1.8	21.7	1040	1.15
	5	25	0.9	1.8	26.4	1563	0.727
	5	35	0.9	1.8	29.8	2054	0.524
	5	50	1.0	1.9	34.5	2795	0.387
	5	70	1.1	2.1	40.2	3916	0.268

**CU/XLPE/LSHF, XLPE insulated, LSHF sheathed Cable, 0.6/1kV
2-, 3-, 4-, 5-, Multicores**

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thick-ness	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm ²	mm	mm	mm	kg/km	Ω/km
	7	1.5	0.7	1.8	12.8	232	12.1
	7	2.5	0.7	1.8	14.6	309	7.41
	7	4.0	0.7	1.8	15.6	426	4.61
	12	1.5	0.7	1.8	16.2	359	12.1
	12	2.5	0.7	1.8	18.1	488	7.41
	12	4.0	0.7	1.8	20.2	685	4.61
	19	1.5	0.7	1.8	18.8	507	12.1
	19	2.5	0.8	1.8	22.2	715	7.41
	19	4.0	1.0	1.8	26.5	1247	4.61
	27	1.5	0.7	1.8	22.3	700	12.1
	27	2.5	0.7	1.8	18.1	978	7.41
	27	4.0	0.7	1.8	28.0	1401	4.61
	37	1.5	0.7	1.8	24.9	913	12.1
	37	2.5	0.7	1.8	27.8	1288	7.41
	37	4.0	0.7	1.9	31.8	1895	4.61
	48	1.5	0.7	1.8	28.3	1155	12.1
	48	2.5	0.7	1.9	32.1	1652	7.41