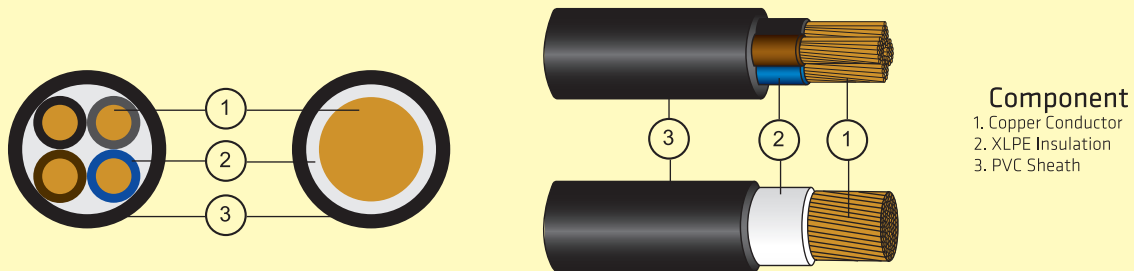


Single Core, 2-, 3-, 4-, 5-, multicores CU/XLPE/PVC

XLPE insulated, PVC sheathed Cable 0.6/1kV



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

Standards Applied

Design Guide: IEC60502-1
 Conductor: IEC60228, BS6360, BS EN 60228
 Flame Retardancy: IEC60332-1-2, IEC60332-3-24**, IEC60332-3-22**

Electrical Characteristics

Operating voltage, U₀/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	An extruded layer of polyvinyl chloride (PVC) compound
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	Ω/km
	1	1.5	0.7	1.4	5.8	47	12.1
	1	2.5	0.7	1.4	6.2	62	7.41
	1	4	0.7	1.4	6.8	77	4.61
	1	6	0.7	1.4	7.3	100	3.08
	1	10	0.7	1.4	8.5	150	1.83
	1	16	0.7	1.4	9.5	211	1.15
	1	25	0.9	1.4	11.2	314	0.727
	1	35	0.9	1.4	12.5	414	0.524
	1	50	1.0	1.4	13.7	538	0.387
	1	70	1.1	1.4	15.7	751	0.268
	1	95	1.1	1.5	18.0	1018	0.193
	1	120	1.2	1.5	19.7	1267	0.153
	1	150	1.4	1.6	21.9	1555	0.124
	1	185	1.6	1.6	24.2	1932	0.0991
	1	240	1.7	1.7	27.2	2510	0.0754
	1	300	1.8	1.8	29.9	3125	0.0601
	1	400	2.0	1.9	33.6	3985	0.047
	1	500	2.2	2.0	37.3	4978	0.0366
	1	630	2.4	2.2	42.0	6430	0.0283
	1	800	2.6	2.4	47.2	8188	0.0221
	1	1000	2.8	2.5	52.4	10256	0.0176

* Optional
 ** Available upon request
 *** Not available for single core

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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	117	12.1
	2	2.5	0.7	1.8	10.4	147	7.41
	2	4	0.7	1.8	11.5	193	4.61
	2	6	0.7	1.8	12.7	249	3.08
	2	10	0.7	1.8	15.2	339	1.83
	2	16	0.7	1.8	17.3	476	1.15
	2	25	0.9	1.8	20.8	697	0.727
	2	35	0.9	1.8	23.2	910	0.524
	2	50	1.0	1.8	25.8	1177	0.387
	2	70	1.1	1.8	30.1	1643	0.268
	2	95	1.1	1.9	34.1	2220	0.193
	2	120	1.2	2.0	38.2	2798	0.153
	2	150	1.4	2.2	42.4	3415	0.124
	2	185	1.6	2.3	47.2	4249	0.0991
	2	240	1.7	2.5	53.2	5530	0.0754
	2	300	1.8	2.6	58.8	6853	0.0601
	2	400	2.0	2.9	66.2	8714	0.047

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	138	12.1
	3	2.5	0.7	1.8	11.0	177	7.41
	3	4	0.7	1.8	12.2	238	4.61
	3	6	0.7	1.8	13.5	312	3.08
	3	10	0.7	1.8	16.2	460	1.83
	3	16	0.7	1.8	18.5	656	1.15
	3	25	0.9	1.8	22.3	976	0.727
	3	35	0.9	1.8	25.0	1286	0.524
	3	35 sh	0.9	1.8	20.2	1210	0.524
	3	50	1.0	1.8	27.8	1677	0.387
	3	50 sh	1.0	1.8	22.6	1594	0.387
	3	70	1.1	1.9	32.7	2412	0.268
	3	70 sh	1.1	1.9	26.4	2276	0.268
	3	95	1.1	2.0	37.1	3259	0.193
	3	95 sh	1.1	2.0	29.8	3000	0.193
	3	120	1.2	2.1	41.3	4077	0.153
	3	120 sh	1.2	2.1	33.0	3874	0.153
	3	150	1.4	2.3	46.0	5008	0.124
	3	150 sh	1.4	2.3	37.1	4637	0.124
	3	185	1.6	2.4	51.2	6265	0.0991
	3	185 sh	1.6	2.4	41.3	5767	0.0991
	3	240	1.7	2.6	57.8	8142	0.0754
	3	240 sh	1.7	2.6	46.4	7414	0.0754
	3	300	1.8	2.8	64.0	10119	0.0601
	3	300 sh	1.8	2.8	50.4	9091	0.0601
	3	400	2.0	3.0	71.8	12853	0.047
	3	400 sh	2.0	3.0	60.8	12097	0.047

sh: sector shaped conductor

CU/XLPE/PVC, XLPE insulated, PVC 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	172	12.1
	4	2.5	0.7	1.8	12.0	223	7.41
	4	4	0.7	1.8	13.4	304	4.61
	4	6	0.7	1.8	14.8	403	3.08
	4	10	0.7	1.8	17.7	594	1.83
	4	16	0.7	1.8	20.3	856	1.15
	4	25	0.9	1.8	24.6	1278	0.727
	4	35	0.9	1.8	27.9	1690	0.524
	4	35 sh	0.9	1.8	24.3	1639	0.524
	4	50	1.0	1.9	31.2	2244	0.387
	4	50 sh	1.0	1.9	26.7	2159	0.387
	4	70	1.1	2.0	36.4	3173	0.268
	4	70 sh	1.1	2.0	31.4	3080	0.268
	4	95	1.1	2.1	41.3	4278	0.193
	4	95 sh	1.1	2.1	35.7	4056	0.193
	4	120	1.2	2.3	46.1	5471	0.153
	4	120 sh	1.2	2.3	39.7	5245	0.153
	4	150	1.4	2.4	51.1	6690	0.124
	4	150 sh	1.4	2.4	44.6	6262	0.124
	4	185	1.6	2.6	57.1	8409	0.0991
	4	185 sh	1.6	2.6	49.7	7807	0.0991
	4	240	1.7	2.8	64.4	10923	0.0754
	4	240 sh	1.7	2.8	56.0	10027	0.0754
	4	300	1.8	3.0	71.3	13567	0.0601
	4	300 sh	1.8	3.0	61.8	12326	0.0601
	4	400	2.0	3.3	80.2	17268	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	183	12.1
	5	2.5	0.7	1.8	13.1	240	7.41
	5	4	0.7	1.8	14.6	331	4.61
	5	6	0.7	1.8	16.2	442	3.08
	5	10	0.7	1.8	18.8	707	1.83
	5	16	0.7	1.8	21.7	1028	1.15
	5	25	0.9	1.8	26.4	1549	0.727
	5	35	0.9	1.8	29.8	2038	0.524
	5	50	1.0	1.9	34.5	2774	0.387
	5	70	1.1	2.1	40.2	3891	0.268

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Dimension & Electrical Data

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		mm ²	mm	mm	mm	kg/km	Ω/km
	7	1.5	0.7	1.8	12.8	226	12.1
	7	2.5	0.7	1.8	14.6	302	7.41
	7	4.0	0.7	1.8	15.7	419	4.61
	12	1.5	0.7	1.8	16.2	351	12.1
	12	2.5	0.7	1.8	18.1	478	7.41
	12	4.0	0.7	1.8	20.3	676	4.61
	19	1.5	0.7	1.8	18.8	507	12.1
	19	2.5	0.7	1.8	20.9	704	7.41
	19	4.0	0.7	1.8	23.6	1006	4.61
	27	1.5	0.7	1.8	22.3	689	12.1
	27	2.5	0.7	1.8	24.9	965	7.41
	27	4.0	0.7	1.8	28.2	1390	4.61
	37	1.5	0.7	1.8	24.9	901	12.1
	37	2.5	0.7	1.8	27.8	1274	7.41
	37	4.0	0.7	1.9	32.0	1881	4.61
	48	1.5	0.7	1.8	28.3	1139	12.1
	48	2.5	0.7	1.9	32.1	1634	7.41