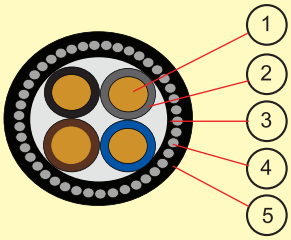
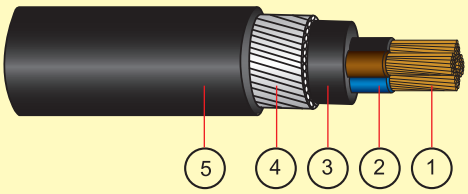
2-, 3-, 4-, 5-, Multicores, CU/XLPE/PVC/SWA/PVC

XLPE insulated, PVC bedded, SWA armoured, PVC sheathed Cable 0.6/1kV





Component

1. Copper Conductor
2. XLPE Insulation
3. PVC Bedding
4. Galvanised Steel Wire Armoured
5. PVC Sheath

Standards Applied

Design Guide: BS5467, IEC60502-1
Conductor : IEC60228, BS6360, BS EN 60228
Flame Retardancy: IEC60332-1-2, IEC60332-3-24**, IEC60332-3-22**

Electrical Characteristics

Operating voltage, Uo/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) : 10 x Cable Overall Diameter
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
Assembly	Cores cabled together, supplied with filler* and covered with polyester (PETP) binder tape*
Bedding	An extruded layer of polyvinyl chloride (PVC) compound
Bedding Colour	Black
Armour	A single layer of steel wire armoured (SWA)
Outer Sheath	An extruded layer of polyvinyl chloride (PVC) compound
Outer Sheath Colour	Black

Dimension & Electrical Data

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Dia. after Bedding	Nom. Armour Wire Size	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm²	mm	mm	mm	mm	mm	kg/km	Ω/km
	2	1.5	0.7	8.0	0.9	1.8	13.4	332	12.1
	2	2.5	0.7	8.9	0.9	1.8	14.3	381	7.41
	2	4	0.7	10.0	0.9	1.8	15.4	447	4.61
	2	6	0.7	11.1	0.9	1.8	16.5	533	3.08
	2	10	0.7	13.6	1.25	1.8	19.7	780	1.83
	2	16	0.7	15.7	1.25	1.8	21.8	978	1.15
	2	25	0.9	19.2	1.6	1.8	26.0	1457	0.727
	2	35	0.9	21.6	1.6	1.8	28.4	1754	0.524
	2	50	1.0	24.2	1.6	1.8	31.0	2117	0.387
	2	70	1.1	28.5	1.6	2.0	35.7	2770	0.268
	2	95	1.1	32.7	2.0	2.1	40.9	3827	0.193
	2	120	1.2	36.4	2.0	2.2	44.8	4573	0.153
	2	150	1.4	40.3	2.5	2.3	48.9	5351	0.124
	2	185	1.6	45.3	2.5	2.5	55.3	7006	0.0991
	2	240	1.7	51.0	2.5	2.7	61.4	8588	0.0754
	2	300	1.8	56.8	2.5	2.8	61.4	10305	0.0601
	2	400	2.0	63.6	2.5	3.1	74.8	12569	0.047

* Optional
** Available upon request

CU/XLPE/PVC/SWA/PVC, XLPE insulated, PVC bedded, SWA armoured, 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. Dia. after Bedding	Nom. Armour Wire Size	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm²	mm	mm	mm	mm	mm	kg/km	Ω/km
	3	1.5	0.7	8.6	0.9	1.8	14.0	365	12.1
	3	2.5	0.7	9.5	0.9	1. 8	14.9	425	7.41
	3	4	0.7	10.7	0.9	1.8	16.1	515	4.61
	3	6	0.7	12.0	0.9	1.8	17.4	616	3.08
	3	10	0.7	14.6	1.25	1.8	20.7	936	1.83
	3	16	0.7	16.9	1.25	1.8	23.0	1194	1.15
	3	25	0.9	20.7	1.6	1.8	27.5	1793	0.727
	3	35	0.9	23.4	1.6	1.8	30.2	2198	0.524
	3	35 sh	0.9	18.6	1.6	1.8	25.4	1950	0.524
	3	50	1.0	26.2	1.6	1.9	33.2	2708	0.387
	3	50 sh	1.0	20.9	1.6	1.9	27.9	2431	0.387
	3	70	1.1	31.3	2.0	2.0	39.3	3963	0.268
	3	70 sh	1.1	25.0	2.0	2.1	33.2	3518	0.268
	3	95	1.1	35.4	2.0	2.2	43.8	5019	0.193
	3	95 sh	1.1	28.2	2.0	2.2	36.6	4398	0.193
	3	120	1.2	39.5	2.0	2.3	48.1	6000	0.153
	3	120 sh	1.2	31.2	2.0	2.3	39.8	5419	0.153
	3	150	1.4	44.2	2.5	2.5	54.2	7715	0.124
	3	150 sh	1.4	35.2	2.5	2.5	45.2	6777	0.124
	3	185	1.6	49.2	2.5	2.6	59.4	9264	0.0991
	3	185 sh	1.6	39.3	2.5	2.6	49.5	8149	0.0991
	3	240	1.7	55.8	2.5	2.8	66.4	11544	0.0754
	3	240 sh	1.7	44.4	2.5	2.8	55.0	10136	0.0754
	3	300	1.8	61.6	2.5	3.0	72.6	13870	0.0601
	3	300 sh	1.8	48.0	2.5	3.0	59.0	12019	0.0601
	3	400	2.0	69.0	3.2	3.3	81.9	18039	0.047
	3	400 sh	2.0	58.0	2.5	3.3	69.6	15650	0.047

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Dia. after Bedding	Nom. Armour Wire Size	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resis-tance at 20°C
		mm²	mm	mm	mm	mm	mm	kg/km	Ω/km
	4	1.5	0.7	9.4	0.9	1.8	14.8	413	12.1
	4	2.5	0.7	10.4	0.9	1.8	15.8	493	7.41
	4	4	0.7	11.8	0.9	1.8	17.2	602	4.61
	4	6	0.7	13.2	1.25	1.8	19.3	842	3.08
	4	10	0.7	16.1	1.25	1.8	22.2	1108	1.83
	4	16	0.7	18.7	1.25	1.8	24.8	1453	1.15
	4	25	0.9	23.0	1.6	1.8	29.8	2179	0.727
	4	35	0.9	26.2	1.6	1.9	33.2	2722	0.524
	4	35 sh	0.9	22.7	1.6	1.9	29.7	2536	0.524
	4	50	1.0	29.3	2.0	2.0	37.3	3651	0.387
	4	50 sh	1.0	24.9	1.6	2.0	32.1	3136	0.387
	4	70	1.1	34.7	2.0	2.2	43.1	4875	0.268
	4	70 sh	1.1	29.8	2.0	2.2	38.2	4541	0.268
	4	95	1.1	39.4	2.0	2.3	48.0	6200	0.193
	4	95 sh	1.1	33.8	2.0	2.3	42.4	5729	0.193
	4	120	1.2	44.3	2.5	2.5	54.3	8179	0.153
	4	120 sh	1.2	37.8	2.5	2.5	47.8	7529	0.153
	4	150	1.4	49.1	2.5	2.6	59.3	9646	0.124
	4	150 sh	1.4	42.6	2.5	2.6	52.8	8794	0.124
	4	185	1.6	54.7	2.5	2.8	65.3	11707	0.0991
	4	185 sh	1.6	47.3	2.5	2.8	57.9	10632	0.0991
	4	240	1.7	62.0	2.5	3.0	73.0	14677	0.0754
	4	240 sh	1.7	53.6	2.5	3.0	64.6	13251	0.0754
	4	300	1.8	68.5	2.5	3.2	79.9	17676	0.0601
	4	300 sh	1.8	59.0	2.5	3.2	70.4	15896	0.0601
	4	400	2.0	77.2	3.2	3.5	90.5	22972	0.047
	4	400 sh	2.0	66.9	3.2	3.5	80.2	21387	0.047

sh: sector shaped conductor

CU/XLPE/PVC/SWA/PVC, XLPE insulated, PVC bedded, SWA armoured, 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. Dia. after Bedding	Nom. Armour Wire Size	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm²	mm	mm	mm	mm	mm	kg/km	Ω/km
	5	1.5	0.7	10.3	0.9	1.8	15.7	444	1.15
	5	2.5	0.7	11.4	0.9	1.8	16.8	531	0.727
	5	4	0.7	13.0	1.25	1.8	19.1	760	0.524
	5	6	0.7	14.5	1.25	1.8	20.6	918	0.387
	5	10	0.7	17.2	1.25	1.8	23.3	1256	0.268
	5	16	0.7	20.1	1.6	1.8	26.9	1809	0.193
	5	25	0.9	24.8	1.6	1.8	31.6	2508	0.153
	5	35	0.9	28.2	1.6	1.9	35.2	3130	0.124
	5	50	1.0	32.9	2.0	2.1	41.1	4391	0.0991
	5	70	1.1	38.4	2.0	2.3	47.0	5780	0.0754

Product ID	No. of Core	Conductor Size	Nom. Insulation Thickness	Nom. Dia. after Bedding	Nom. Armour Wire Size	Nom. Sheath Thickness	Nom. Overall Diameter	Approx. Cable Weight	Max. d.c. Resistance at 20°C
		mm²	mm	mm	mm	mm	mm	kg/km	Ω/km
	7	1.5	0.7	11.2	0.9	1.8	16.6	510	12.1
	7	2.5	0.7	12.4	1.25	1.8	18.5	718	7.41
	7	4	0.7	14.0	1.25	1.8	20.1	875	4.61
	12	1.5	0.7	14.7	1.25	1.8	20.8	827	12.1
	12	2.5	0.7	16.5	1.25	1.8	22.6	1004	7.41
	12	4	0.7	18.6	1.6	1.8	25.4	1417	4.61
	19	1.5	0.7	17.2	1.25	1.8	23.3	1056	12.1
	19	2.5	0.7	19.4	1.6	1.8	26.2	1464	7.41
	19	4	0.7	21.9	1.6	1.8	28.7	1864	4.61
	27	1.5	0.7	20.6	1.6	1.8	27.4	1495	12.1
	27	2.5	0.7	23.3	1.6	1.8	30.1	1867	7.41
	27	4	0.7	26.5	1.6	1.9	33.5	2424	4.61
	37	1.5	0.7	23.2	1.6	1.8	30.0	1802	12.1
	37	2.5	0.7	26.2	1.6	1.9	33.2	2288	7.41
	37	4	0.7	30.3	2.0	2.1	38.5	3351	4.61
	48	1.5	0.7	26.8	1.6	1.8	33.8	2173	12.1
	48	2.5	0.7	30.7	2.0	2.1	38.9	3122	7.41