
5.2 ARMoured, PVC OR XLPE INSULATED AND PVC SHEATHED CABLES

1. SCOPE

This specification covers PVC or XLPE insulated, circular, twin, three or four conductors armoured cables, rated at 0.6/1 KV to international Electrotechnical commission Publication IEC 60502-1 for use indoors, outdoors, in cable ducts, in water and for direct burial underground, where severe mechanical stresses are present. These cables have high dielectric strength, an excellent resistance to deformations under high temperature and pressure, and high resistance to ageing, abrasion, moisture, chemicals, acids and oils.

2. CONSTRUCTION

2.1 Conductor

Plain, annealed electrolytic copper or Aluminium conductors, solid, circular stranded, or sectoral stranded, conforming to the applicable requirements of IEC 60228.

2.2 Insulation

PVC based thermoplastic or XLPE thermosetting material, conforming to the applicable requirements of IEC 60502-1.

2.3 Assembly

Insulated conductors are laid up, filled where necessary with non-hygroscopic material and covered with an extruded thickness of thermoplastic material.

2.4 Armour

Galvanized round wires, or flat strips, completely covering the assembly of cores and a counter helix of galvanized steel tape on top; or two layers of steel tape, complying to the applicable requirements of IEC 60502-1.

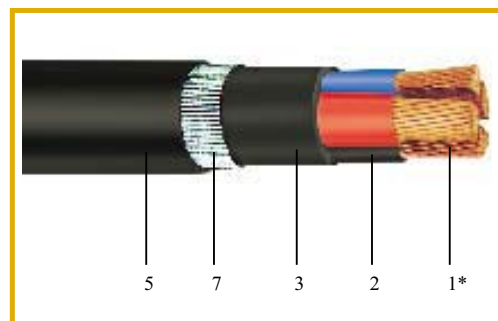
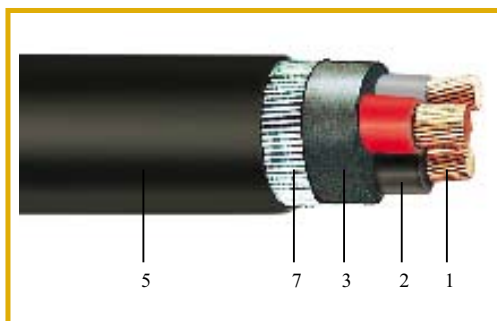
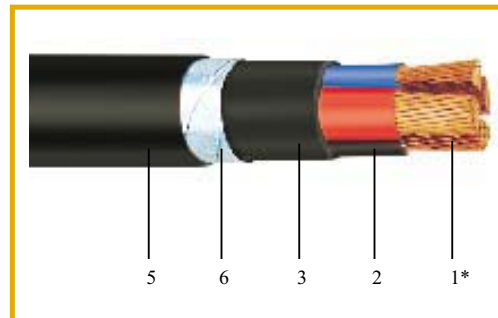
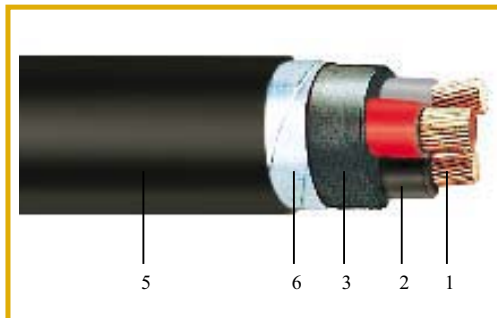
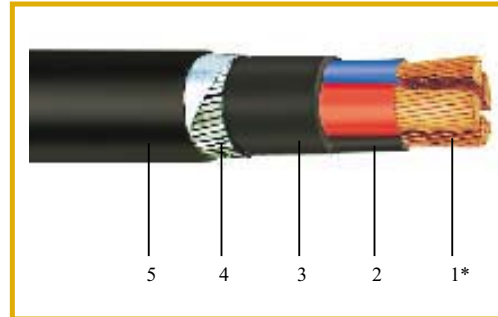
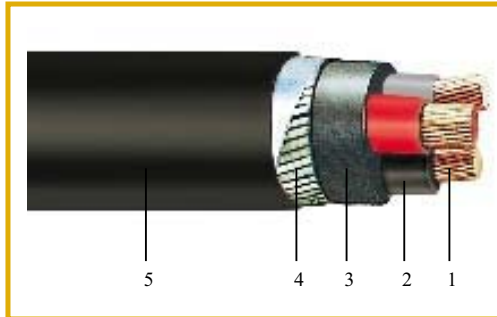
2.5 Sheath

PVC based thermoplastic material, conforming to the applicable requirements of IEC 60502-1.

2.6 TESTS

Conforming to the applicable requirements of IEC 60502-1 either on Raw materials or on finished products.

5.2 ARMoured, PVC OR XLPE INSULATED AND PVC SHEATHED CABLES



1	Stranded circular copper or aluminium conductor *stranded sectoral copper or aluminium conductor
2	PVC or XLPE insulation
3	Bedding

4	Galvanized flat steel strip armour with flat steel tape applied in helical form
5	PVC or PE sheath
6	Double steel tape armoured
7	Galvanized round steel wire armour

**GALVANIZED STEEL WIRE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 1.5	0.8	1.0	1.8	1.38	2.98	15	27	345	...	...	1000
2 x 2.5	0.8	1.0	1.8	1.78	3.38	16	44	394	...	...	1000
2 x 4	1.0	1.0	1.8	2.25	4.25	17	70	496	...	...	1000
2 x 6	1.0	1.0	1.8	2.95	4.95	19	107	605	...	...	1000
2 x 10	1.0	1.0	1.8	3.82	5.82	21	179	760	55	635	1000
2 x 16	1.0	1.0	1.8	4.83	6.83	24	284	1270	87	1070	1000
2 x 25	1.2	1.0	1.8	6.02	8.42	28	450	1660	138	1350	500
2 x 35	1.2	1.0	1.8	7.15	9.55	30	624	2000	191	1570	500

THREE CORE											
3 x 1.5	0.8	1.0	1.8	1.38	2.98	15	40	374	...	...	1000
3 x 2.5	0.8	1.0	1.8	1.78	3.38	16	66	434	...	...	1000
3 x 4	1.0	1.0	1.8	2.25	4.25	18	105	560	...	...	1000
3 x 6	1.0	1.0	1.8	2.95	4.95	20	160	685	...	...	1000
3 x 10	1.0	1.0	1.8	3.82	5.82	23	269	1170	82	985	1000
3 x 16	1.0	1.0	1.8	4.83	6.83	25	426	1470	130	1170	1000
3 x 25	1.2	1.0	1.8	6.02	8.42	29	675	1960	206	1490	500
3 x 35	1.2	1.0	1.9	shaped	shaped	29	945	2140	289	1480	500
3 x 50	1.4	1.0	2.1	shaped	shaped	34	1279	2920	391	2030	500
3 x 70	1.4	1.2	2.2	shaped	shaped	37	1848	3750	565	2470	500
3 x 95	1.6	1.2	2.3	shaped	shaped	42	2562	4800	783	3020	500
3 x 120	1.6	1.2	2.5	shaped	shaped	46	3242	6100	990	3850	250
3 x 150	1.8	1.4	2.6	shaped	shaped	52	3978	7350	1216	4590	250
3 x 185	2.0	1.4	2.8	shaped	shaped	55	4990	8700	1525	5200	250
3 x 240	2.2	1.4	3.0	shaped	shaped	61	6557	10800	2004	6250	250
3 x 300	2.4	1.6	3.2	shaped	shaped	66	8226	13100	2514	7400	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**GALVANIZED STEEL WIRE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
FOUR CORE											
4 x 1.5	0.8	1.0	1.8	1.38	2.98	16	53	417	...	...	1000
4 x 2.5	0.8	1.0	1.8	1.78	3.38	17	88	490	...	...	1000
4 x 4	1.0	1.0	1.8	2.25	4.25	19	140	640	...	...	1000
4 x 6	1.0	1.0	1.8	2.95	4.95	21	213	795	...	...	1000
4 x 10	1.0	1.0	1.8	3.82	5.82	25	358	1350	110	1100	1000
4 x 16	1.0	1.0	1.8	4.83	6.83	27	568	1720	174	1330	1000
4 x 25	1.2	1.0	1.9	6.02	8.42	31	900	2350	275	1730	500
4 x 35	1.2	1.0	2.0	shaped	shaped	32	1259	2640	385	1770	500
4 x 50	1.4	1.2	2.2	shaped	shaped	37	1705	3650	521	2470	500
4 x 70	1.4	1.2	2.3	shaped	shaped	41	2464	4670	754	2960	500
4 x 95	1.6	1.2	2.5	shaped	shaped	47	3417	6450	1044	4080	500
4 x 120	1.6	1.4	2.6	shaped	shaped	51	4323	7700	1320	4700	250
4 x 150	1.8	1.4	2.8	shaped	shaped	56	5305	9100	1621	5400	250
4 x 185	2.0	1.6	3.0	shaped	shaped	61	6654	11100	2023	6500	250
4 x 240	2.2	1.6	3.2	shaped	shaped	68	8743	13850	2672	7800	250
4 x 300	2.4	1.6	3.4	shaped	shaped	75	10969	17600	3352	10000	250

FOUR CORE WITH REDUCED NEUTRAL													
3 x Ph. +N. Ph. N.				Ph. N. Ph. N.									
3 x 25+16	1.2	1.0	1.9	6.02	4.83	8.42	6.83	30	817	2220	249	1650	500
3 x 35 + 16	1.2	1.0	1.9	shaped	4.83	shaped	6.83	31	1086	2400	333	1650	500
3 x 50 + 25	1.4	1.2	1.0	2.1	shaped	6.02	shaped	35	1504	3290	460	2250	500
3 x 70 + 35	1.4	1.2	1.2	2.2	shaped	shaped		39	2163	4240	662	2740	500
3 x 95 + 50	1.6	1.4	1.2	2.4	shaped	shaped		44	2989	5450	914	3380	500
3 x 120+70	1.6	1.4	1.4	2.5	shaped	shaped		49	3858	7050	1179	4370	250
3 x 150+70	1.8	1.4	1.4	2.7	shaped	shaped		53	4594	8150	1404	4960	250
3 x 185+95	2.0	1.6	1.4	2.8	shaped	shaped		58	5845	9850	1786	5800	250
3x240+120	2.2	1.6	1.6	3.0	shaped	shaped		64	7638	12300	2334	7000	250
3x300+150	2.4	1.8	1.6	3.2	shaped	shaped		70	9552	14850	2919	8200	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**GALVANIZED STEEL WIRE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾ Cos φ = 0.8		Current carrying capacity ⁽³⁾			
	Copper	Alu	Copper	Alu	Underground Cable		Cables in air	
					Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	23.3	...	30	...	22	...
2.5	7.41	...	14.2	...	41	...	30	...
4	4.61	...	9.0	...	53	...	40	...
6	3.08	...	6.1	...	67	...	52	...
10	1.83	3.08	3.7	6.1	91	67	71	55
16	1.15	1.91	2.3	3.8	115	90	96	75
25	0.727	1.20	1.5	2.4	146	114	127	99
35	0.524	0.868	1.1	1.7	176	137	157	125
50	0.387	0.641	0.9	1.4	212	165	190	151
70	0.268	0.443	0.6	1.0	261	204	242	192
95	0.193	0.320	0.5	0.7	313	244	293	232
120	0.153	0.253	0.4	0.6	358	279	339	269
150	0.124	0.206	0.4	0.5	400	312	390	309
185	0.0991	0.164	0.3	0.4	451	352	444	353
240	0.0754	0.125	0.3	0.3	522	407	522	415
300	0.0601	0.100	0.2	0.3	590	460	595	472
400	0.0470	0.0778	0.2	0.2	680	530	695	552

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%

**GALVANIZED STEEL WIRE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 1.5	0.7	1.0	1.8	1.38	2.78	14	27	327	...	...	1000
2 x 2.5	0.7	1.0	1.8	1.78	3.18	15	44	372	...	...	1000
2 x 4	0.7	1.0	1.8	2.25	3.65	16	70	434	...	...	1000
2 x 6	0.7	1.0	1.8	2.95	4.35	18	107	535	...	...	1000
2 x 10	0.7	1.0	1.8	3.82	5.22	19	179	685	55	560	1000
2 x 16	0.7	1.0	1.8	4.83	6.23	21	284	880	87	685	1000
2 x 25	0.9	1.0	1.8	6.02	7.82	26	450	1550	138	1240	500
2 x 35	0.9	1.0	1.8	7.15	8.95	29	624	1880	191	1450	500

THREE CORE											
3 x 1.5	0.7	1.0	1.8	1.38	2.78	15	40	354	...	...	1000
3 x 2.5	0.7	1.0	1.8	1.78	3.18	16	66	419	...	...	1000
3 x 4	0.7	1.0	1.8	2.25	3.65	17	105	490	...	...	1000
3 x 6	0.7	1.0	1.8	2.95	4.35	18	160	610	...	...	1000
3 x 10	0.7	1.0	1.8	3.82	5.22	20	269	795	82	610	1000
3 x 16	0.7	1.0	1.8	4.83	6.23	24	426	1350	130	1050	1000
3 x 25	0.9	1.0	1.8	6.02	7.82	28	675	1820	206	1350	500
3 x 35	0.9	1.0	1.8	shaped	shaped	28	945	1990	289	1330	500
3 x 50	1.0	1.0	2.0	shaped	shaped	31	1279	2490	391	1600	500
3 x 70	1.1	1.0	2.1	shaped	shaped	35	1848	3500	565	2220	500
3 x 95	1.1	1.2	2.2	shaped	shaped	39	2562	4480	783	2700	500
3 x 120	1.2	1.2	2.4	shaped	shaped	43	3242	5400	990	3150	250
3 x 150	1.4	1.4	2.6	shaped	shaped	50	3978	7150	1216	4390	250
3 x 185	1.6	1.4	2.7	shaped	shaped	53	4990	8300	1525	4840	250
3 x 240	1.7	1.6	2.9	shaped	shaped	58	6557	10350	2004	5800	250
3 x 300	1.8	1.6	3.1	shaped	shaped	63	8226	12450	2514	6650	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**GALVANIZED STEEL WIRE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
FOUR CORE											
4 x 1.5	0.7	1.0	1.8	1.38	2.78	15	53	388	...	...	1000
4 x 2.5	0.7	1.0	1.8	1.78	3.18	16	88	459	...	...	1000
4 x 4	0.7	1.0	1.8	2.25	3.65	18	140	560	...	...	1000
4 x 6	0.7	1.0	1.8	2.95	4.35	19	213	705	...	...	1000
4 x 10	0.7	1.0	1.8	3.82	5.22	22	358	935	110	685	1000
4 x 16	0.7	1.0	1.8	4.83	6.23	25	568	1570	174	1180	1000
4 x 25	0.9	1.0	1.8	6.02	7.82	30	900	2160	275	1540	500
4 x 35	0.9	1.0	1.9	shaped	shaped	31	1259	2470	385	1600	500
4 x 50	1.0	1.0	2.1	shaped	shaped	35	1705	3340	521	2160	500
4 x 70	1.1	1.2	2.2	shaped	shaped	40	2464	4430	754	2720	500
4 x 95	1.1	1.2	2.4	shaped	shaped	44	3417	5650	1044	3280	500
4 x 120	1.2	1.2	2.5	shaped	shaped	49	4323	7250	1320	4250	250
4 x 150	1.4	1.4	2.7	shaped	shaped	53	5305	8700	1621	5000	250
4 x 185	1.6	1.4	2.9	shaped	shaped	59	6654	10500	2023	5900	250
4 x 240	1.7	1.6	3.1	shaped	shaped	65	8743	13200	2672	7150	250
4 x 300	1.8	1.6	3.3	shaped	shaped	71	10969	15950	3352	8350	250

FOUR CORE WITH REDUCED NEUTRAL														
3 x Ph. +N. Ph. N.				Ph. N. Ph. N.										
3 x 25+16	0.9	0.7	1.0	1.8	6.02	4.83	7.82	6.23	29	817	2050	249	1480	500
3 x 35 + 16	0.9	0.7	1.0	1.9	shaped	4.83	shaped	6.23	30	1086	2240	333	1490	500
3 x 50 + 25	1.0	0.9	1.0	2.0	shaped	6.02	shaped	7.82	33	1504	3050	460	2010	500
3 x 70 + 35	1.1	0.9	1.2	2.2	shaped	shaped	shaped	shaped	38	2163	4080	662	2580	500
3 x 95 + 50	1.1	1.0	1.2	2.3	shaped	shaped	shaped	shaped	42	2989	5100	914	3030	500
3 x 120+70	1.2	1.1	1.2	2.4	shaped	shaped	shaped	shaped	46	3858	6250	1179	3570	250
3 x 150+70	1.4	1.1	1.4	2.6	shaped	shaped	shaped	shaped	51	4594	7750	1404	4560	250
3 x 185+95	1.6	1.1	1.4	2.8	shaped	shaped	shaped	shaped	56	5845	9400	1786	5350	250
3x240+120	1.7	1.2	1.6	3.0	shaped	shaped	shaped	shaped	62	7638	11750	2334	6450	250
3x300+150	1.8	1.4	1.6	3.1	shaped	shaped	shaped	shaped	67	9552	14150	2919	7500	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**GALVANIZED STEEL WIRE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾ Cos φ = 0.8		Current carrying capacity ⁽³⁾			
	Copper	Alu	Copper	Alu	Underground Cable		Cables in air	
					Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	24.8	...	34	...	27	...
2.5	7.41	...	14.8	...	46	...	37	...
4	4.61	...	9.2	...	59	...	50	...
6	3.08	...	6.2	...	74	...	64	...
10	1.83	3.08	3.7	6.1	101	79	88	69
16	1.15	1.91	2.4	3.9	128	100	119	93
25	0.727	1.20	1.6	2.5	162	126	157	122
35	0.524	0.868	1.2	1.9	195	152	194	151
50	0.387	0.641	0.87	1.4	235	183	235	183
70	0.268	0.443	0.64	1.0	290	226	299	234
95	0.193	0.320	0.48	0.75	347	271	362	282
120	0.153	0.253	0.40	0.60	397	310	419	327
150	0.124	0.206	0.35	0.50	444	346	481	375
185	0.0991	0.164	0.29	0.42	500	390	549	428
240	0.0754	0.125	0.24	0.33	578	452	645	503
300	0.0601	0.100	0.23	0.30	655	512	735	575
400	0.0470	0.0778	0.22	0.28	754	588	859	670

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%

**GALVANIZED STEEL STRIP ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 16	1.0	1.0	1.8	4.83	6.83	23	284	1080	87	885	1000
2 x 25	1.2	1.0	1.8	6.02	8.42	26	450	1440	138	1130	500
2 x 35	1.2	1.0	1.8	7.15	9.55	28	624	1760	191	1330	500

THREE CORE											
3 x 16	1.0	1.0	1.8	4.83	6.83	24	426	1260	130	965	1000
3 x 25	1.2	1.0	1.8	6.02	8.42	27	675	1730	206	1260	500
3 x 35	1.2	1.0	1.8	shaped	shaped	28	945	1890	289	1230	500
3 x 50	1.4	1.0	2.0	shaped	shaped	31	1279	2420	391	1530	500
3 x 70	1.4	1.2	2.1	shaped	shaped	35	1848	3190	565	1910	500
3 x 95	1.6	1.2	2.2	shaped	shaped	39	2562	4160	783	2380	500
3 x 120	1.6	1.2	2.3	shaped	shaped	42	3242	5000	990	2750	250
3 x 150	1.8	1.4	2.5	shaped	shaped	49	3978	6150	1216	3390	250
3 x 185	2.0	1.4	2.6	shaped	shaped	51	4990	7350	1525	3890	250
3 x 240	2.2	1.4	2.8	shaped	shaped	57	6557	9300	2004	4750	250
3 x 300	2.4	1.6	3.0	shaped	shaped	63	8226	11600	2514	5900	250

FOUR CORE											
4 x 16	1.0	1.0	1.8	4.83	6.83	26	568	1500	174	1100	1000
4 x 25	1.2	1.0	1.8	6.02	8.42	30	900	2080	275	1460	500
4 x 35	1.2	1.0	1.9	shaped	shaped	31	1259	2370	385	1500	500
4 x 50	1.4	1.2	2.1	shaped	shaped	35	1705	3080	521	1900	500
4 x 70	1.4	1.2	2.2	shaped	shaped	39	2464	4040	754	2330	500
4 x 95	1.6	1.2	2.4	shaped	shaped	44	3417	5350	1044	2980	500
4 x 120	1.6	1.4	2.5	shaped	shaped	48	4323	6500	1320	3500	250
4 x 150	1.8	1.4	2.7	shaped	shaped	52	5305	7800	1621	4120	250
4 x 185	2.0	1.6	2.8	shaped	shaped	58	6654	9700	2023	5100	250
4 x 240	2.2	1.6	3.1	shaped	shaped	65	8743	12300	2672	6250	250
4 x 300	2.4	1.6	3.3	shaped	shaped	71	10969	15100	3352	7500	250

**GALVANIZED STEEL STRIP ARMOURED
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum			
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable					
							Conductor	Cable	Conductor	Cable				
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m			
FOUR CORE WITH REDUCED NEUTRAL														
3 x Ph. +N. Ph. N.				Ph.	N.	Ph.	N.							
3 x 25+16	1.2	1.0	1.0	1.8	6.02	4.83	8.42	6.83	29	817	1960	249	1390	500
3 x 35 + 16	1.2	1.0	1.0	1.9	shaped	4.83	shaped	6.83	30	1086	2140	333	1390	500
3 x 50 + 25	1.4	1.2	1.0	2.0	shaped	6.02	shaped	8.42	33	1504	2760	460	1720	500
3 x 70 + 35	1.4	1.2	1.2	2.1	shaped	shaped			37	2163	3630	662	2130	500
3 x 95 + 50	1.6	1.4	1.2	2.3	shaped	shaped			42	2989	4770	914	2700	500
3 x 120+70	1.6	1.4	1.4	2.4	shaped	shaped			46	3858	5900	1179	3220	250
3 x 150+70	1.8	1.4	1.4	2.5	shaped	shaped			49	4594	6850	1404	3660	250
3 x 185+95	2.0	1.6	1.4	2.7	shaped	shaped			54	5845	8500	1786	4440	250
3x240+120	2.2	1.6	1.6	2.9	shaped	shaped			61	7638	10900	2334	5600	250
3x300+150	2.4	1.8	1.6	3.1	shaped	shaped			67	9552	13300	2919	6650	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available.

**GALVANIZED STEEL STRIP ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾		Current carrying capacity ⁽³⁾			
	Copper	Alu	Cos φ = 0.8		Underground Cable		Cables in air	
			Copper	Alu	Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	23.3	...	30	...	22	...
2.5	7.41	...	14.2	...	41	...	30	...
4	4.61	...	9.0	...	53	...	40	...
6	3.08	...	6.1	...	67	...	52	...
10	1.83	3.08	3.7	6.1	91	67	71	55
16	1.15	1.91	2.3	3.8	115	90	96	75
25	0.727	1.20	1.5	2.4	146	114	127	99
35	0.524	0.868	1.1	1.7	176	137	157	125
50	0.387	0.641	0.9	1.4	212	165	190	151
70	0.268	0.443	0.6	1.0	261	204	242	192
95	0.193	0.320	0.5	0.7	313	244	293	232
120	0.153	0.253	0.4	0.6	358	279	339	269
150	0.124	0.206	0.4	0.5	400	312	390	309
185	0.0991	0.164	0.3	0.4	451	352	444	353
240	0.0754	0.125	0.3	0.3	522	407	522	415
300	0.0601	0.100	0.2	0.3	590	460	595	472
400	0.0470	0.0778	0.2	0.2	680	530	695	552

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%

**GALVANIZED STEEL STRIP ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 16	0.7	1.0	1.8	4.83	6.23	22	284	985	87	790	1000
2 x 25	0.9	1.0	1.8	6.02	7.82	25	450	1340	138	1030	500
2 x 35	0.9	1.0	1.8	7.15	8.95	27	624	1650	191	1220	500

THREE CORE											
3 x 16	0.7	1.0	1.8	4.83	6.23	23	426	1160	130	865	1000
3 x 25	0.9	1.0	1.8	6.02	7.82	26	675	1600	206	1130	500
3 x 35	0.9	1.0	1.8	shaped	shaped	26	945	1770	289	1150	500
3 x 50	1.0	1.0	1.9	shaped	shaped	29	1278	2230	391	1340	500
3 x 70	1.1	1.0	2.0	shaped	shaped	33	1848	2970	565	1690	500
3 x 95	1.1	1.2	2.2	shaped	shaped	37	2562	3900	783	2120	500
3 x 120	1.2	1.2	2.3	shaped	shaped	40	3242	4760	990	2510	250
3 x 150	1.4	1.4	2.4	shaped	shaped	47	3978	5850	1216	3090	250
3 x 185	1.6	1.4	2.6	shaped	shaped	49	4990	7050	1525	3590	250
3 x 240	1.7	1.6	2.8	shaped	shaped	55	6557	8950	2004	4400	250
3 x 300	1.8	1.6	2.9	shaped	shaped	59	8325	11000	2514	5200	250

FOUR CORE											
4 x 16	0.7	1.0	1.8	4.83	6.23	24	568	1380	174	985	1000
4 x 25	0.9	1.0	1.8	6.02	7.82	28	900	1930	275	1310	500
4 x 35	0.9	1.0	1.9	shaped	shaped	29	1259	2220	385	1350	500
4 x 50	1.0	1.0	2.0	shaped	shaped	32	1705	2820	521	1640	500
4 x 70	1.1	1.2	2.1	shaped	shaped	37	2464	3830	754	2120	500
4 x 95	1.1	1.2	2.3	shaped	shaped	41	3417	5000	1044	2630	500
4 x 120	1.2	1.2	2.4	shaped	shaped	45	4323	6100	1320	3100	250
4 x 150	1.4	1.4	2.6	shaped	shaped	50	5305	7400	1621	3720	250
4 x 185	1.6	1.4	2.8	shaped	shaped	55	6654	9150	2033	4530	250
4 x 240	1.7	1.6	3.0	shaped	shaped	62	8743	11800	2672	5750	250
4 x 300	1.8	1.6	3.2	shaped	shaped	68	10969	14400	3352	6800	250

**GALVANIZED STEEL STRIP ARMOURED
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum			
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable					
							Conductor	Cable	Conductor	Cable				
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m			
FOUR CORE WITH REDUCED NEUTRAL														
3 x Ph. +N. Ph. N.				Ph.	N.	Ph.	N.							
3 x 25+16	0.9	0.7	1.0	1.8	6.02	4.83	7.82	6.23	27	817	1810	249	1240	500
3 x 35 + 16	0.9	0.7	1.0	1.8	shaped	4.83	shaped	6.23	28	1086	1990	333	1240	500
3 x 50 + 25	1.0	0.9	1.0	1.9	shaped	6.02	shaped	7.82	31	1504	2560	460	1520	500
3 x 70 + 35	1.1	0.9	1.2	2.1	shaped	shaped			35	2163	3450	662	1950	500
3 x 95 + 50	1.1	1.0	1.2	2.2	shaped	shaped			39	2989	4470	914	2400	500
3 x 120+70	1.2	1.1	1.2	2.3	shaped	shaped			43	3858	5550	1179	2870	250
3 x 150+70	1.4	1.1	1.4	2.5	shaped	shaped			47	4594	6550	1404	3360	250
3 x 185+95	1.6	1.1	1.4	2.6	shaped	shaped			52	5845	8100	1786	4040	250
3x240+120	1.7	1.2	1.6	2.8	shaped	shaped			58	7638	10400	2334	5100	250
3x300+150	1.8	1.4	1.6	3.0	shaped	shaped			64	9552	12700	2919	6050	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available.

**GALVANIZED STEEL STRIP ARMOURED
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾ Cos φ = 0.8		Current carrying capacity ⁽³⁾			
	Copper	Alu	Copper	Alu	Underground Cable		Cables in air	
					Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	24.8	...	34	...	27	...
2.5	7.41	...	14.8	...	46	...	37	...
4	4.61	...	9.2	...	59	...	50	...
6	3.08	...	6.2	...	74	...	64	...
10	1.83	3.08	3.7	6.1	101	79	88	69
16	1.15	1.91	2.4	3.9	128	100	119	93
25	0.727	1.20	1.6	2.5	162	126	157	122
35	0.524	0.868	1.2	1.9	195	152	194	151
50	0.387	0.641	0.87	1.4	235	183	235	183
70	0.268	0.443	0.64	1.0	290	226	299	234
95	0.193	0.320	0.48	0.75	347	271	362	282
120	0.153	0.253	0.40	0.60	397	310	419	327
150	0.124	0.206	0.35	0.50	444	346	481	375
185	0.0991	0.164	0.29	0.42	500	390	549	428
240	0.0754	0.125	0.24	0.33	578	452	645	503
300	0.0601	0.100	0.23	0.30	655	512	735	575
400	0.0470	0.0778	0.22	0.28	754	588	859	670

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%

**DOUBLE STEEL TAPE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 1.5	0.8	1.0	1.8	1.38	2.98	14	27	259	...	...	1000
2 x 2.5	0.8	1.0	1.8	1.78	3.38	15	44	302	...	...	1000
2 x 4	1.0	1.0	1.8	2.25	4.25	16	70	390	...	...	1000
2 x 6	1.0	1.0	1.8	2.95	4.95	18	107	485	...	...	1000
2 x 10	1.0	1.0	1.8	3.82	5.82	20	179	625	55	500	1000
2 x 16	1.0	1.0	1.8	4.83	6.83	22	284	805	87	610	1000
2 x 25	1.2	1.0	1.8	6.02	8.42	25	450	1120	138	810	500
2 x 35	1.2	1.0	1.8	7.15	9.55	27	624	1410	191	975	500

THREE CORE											
3 x 1.5	0.8	1.0	1.8	1.38	2.98	14	40	285	...	...	1000
3 x 2.5	0.8	1.0	1.8	1.78	3.38	15	66	338	...	...	1000
3 x 4	1.0	1.0	1.8	2.25	4.25	17	105	448	...	...	1000
3 x 6	1.0	1.0	1.8	2.95	4.95	19	160	560	...	...	1000
3 x 10	1.0	1.0	1.8	3.82	5.82	21	269	730	82	545	1000
3 x 16	1.0	1.0	1.8	4.83	6.83	23	426	975	130	680	1000
3 x 25	1.2	1.0	1.8	6.02	8.42	26	675	1390	206	920	500
3 x 35	1.2	1.0	1.8	shaped	shaped	26	945	1530	289	875	500
3 x 50	1.4	1.0	1.9	shaped	shaped	30	1279	1990	391	1100	500
3 x 70	1.4	1.2	2.1	shaped	shaped	33	1848	2720	565	1440	500
3 x 95	1.6	1.2	2.3	shaped	shaped	39	2562	3990	783	2210	500
3 x 120	1.6	1.2	2.4	shaped	shaped	42	3242	4800	990	2550	250
3 x 150	1.8	1.4	2.5	shaped	shaped	48	3978	5900	1216	3140	250
3 x 185	2.0	1.4	2.7	shaped	shaped	51	4990	7150	1525	3690	250
3 x 240	2.2	1.4	2.9	shaped	shaped	57	6557	9100	2004	4550	250
3 x 300	2.4	1.6	3.1	shaped	shaped	63	8226	11200	2514	5500	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**DOUBLE STEEL TAPE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
FOUR CORE											
4 x 1.5	0.8	1.0	1.8	1.38	2.98	15	53	322	...	...	1000
4 x 2.5	0.8	1.0	1.8	1.78	3.38	16	88	388	...	...	1000
4 x 4	1.0	1.0	1.8	2.25	4.25	18	140	520	...	...	1000
4 x 6	1.0	1.0	1.8	2.95	4.95	20	213	660	...	...	1000
4 x 10	1.0	1.0	1.8	3.82	5.82	22	358	875	110	625	1000
4 x 16	1.0	1.0	1.8	4.83	6.83	25	568	1180	174	785	1000
4 x 25	1.2	1.0	1.8	6.02	8.42	28	900	1710	275	1090	500
4 x 35	1.2	1.0	1.9	shaped	shaped	30	1259	1970	385	1100	500
4 x 50	1.4	1.2	2.1	shaped	shaped	34	1705	2620	521	1440	500
4 x 70	1.4	1.2	2.2	shaped	shaped	39	2464	3860	754	2150	500
4 x 95	1.6	1.2	2.4	shaped	shaped	44	3417	5100	1044	2730	500
4 x 120	1.6	1.4	2.5	shaped	shaped	48	4323	6250	1320	3250	250
4 x 150	1.8	1.4	2.7	shaped	shaped	52	5305	7550	1621	3870	250
4 x 185	2.0	1.6	2.9	shaped	shaped	58	6654	9300	2023	4680	250
4 x 240	2.2	1.6	3.1	shaped	shaped	64	8743	11850	2672	5800	250
4 x 300	2.4	1.6	3.3	shaped	shaped	70	10969	14600	3352	7000	250

FOUR CORE WITH REDUCED NEUTRAL													
3 x Ph. +N. Ph. N.				Ph. N. Ph. N.									
3 x 25+16	1.2	1.0	1.8	6.02	4.83	8.42	6.83	28	817	1600	249	1030	500
3 x 35 + 16	1.2	1.0	1.8	shaped	4.83	shaped	6.83	28	1086	1740	333	925	500
3 x 50 + 25	1.4	1.2	1.0	shaped	6.02	shaped	8.42	32	1504	2320	460	1280	500
3 x 70 + 35	1.4	1.2	1.2	2.1	shaped	shaped		36	2163	3140	662	1640	500
3 x 95 + 50	1.6	1.4	1.2	2.3	shaped	shaped		42	2989	4570	914	2500	500
3 x 120+70	1.6	1.4	1.4	2.4	shaped	shaped		46	3858	5650	1179	2970	250
3 x 150+70	1.8	1.4	1.4	2.6	shaped	shaped		49	4594	6650	1404	3460	250
3 x 185+95	2.0	1.6	1.4	2.7	shaped	shaped		54	5845	8200	1786	4140	250
3x240+120	2.2	1.6	1.6	2.9	shaped	shaped		60	7638	10450	2334	5150	250
3x300+150	2.4	1.8	1.6	3.1	shaped	shaped		66	9552	12850	2919	6200	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**DOUBLE STEEL TAPE ARMoured
PVC INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾ Cos φ = 0.8		Current carrying capacity ⁽³⁾			
	Copper	Alu	Copper	Alu	Underground Cable		Cables in air	
					Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	23.3	...	30	...	22	...
2.5	7.41	...	14.2	...	41	...	30	...
4	4.61	...	9.0	...	53	...	40	...
6	3.08	...	6.1	...	67	...	52	...
10	1.83	3.08	3.7	6.1	91	67	71	55
16	1.15	1.91	2.3	3.8	115	90	96	75
25	0.727	1.20	1.5	2.4	146	114	127	99
35	0.524	0.868	1.1	1.7	176	137	157	125
50	0.387	0.641	0.9	1.4	212	165	190	151
70	0.268	0.443	0.6	1.0	261	204	242	192
95	0.193	0.320	0.5	0.7	313	244	293	232
120	0.153	0.253	0.4	0.6	358	279	339	269
150	0.124	0.206	0.4	0.5	400	312	390	309
185	0.0991	0.164	0.3	0.4	451	352	444	353
240	0.0754	0.125	0.3	0.3	522	407	522	415
300	0.0601	0.100	0.2	0.3	590	460	595	472
400	0.0470	0.0778	0.2	0.2	680	530	695	552

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%

**DOUBLE STEEL TAPE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
TWO CORE											
2 x 1.5	0.7	1.0	1.8	1.38	2.78	14	27	251	...	...	1000
2 x 2.5	0.7	1.0	1.8	1.78	3.18	14	44	293	...	...	1000
2 x 4	0.7	1.0	1.8	2.25	3.65	15	70	348	...	...	1000
2 x 6	0.7	1.0	1.8	2.95	4.35	17	107	434	...	...	1000
2 x 10	0.7	1.0	1.8	3.82	5.22	19	179	570	55	446	1000
2 x 16	0.7	1.0	1.8	4.83	6.23	21	284	735	87	540	1000
2 x 25	0.9	1.0	1.8	6.02	7.82	24	450	1040	138	730	500
2 x 35	0.9	1.0	1.8	7.15	8.95	26	624	1340	191	905	500

THREE CORE											
3 x 1.5	0.7	1.0	1.8	1.38	2.78	14	40	274	...	...	1000
3 x 2.5	0.7	1.0	1.8	1.78	3.18	15	66	326	...	...	1000
3 x 4	0.7	1.0	1.8	2.25	3.65	16	105	395	...	...	1000
3 x 6	0.7	1.0	1.8	2.95	4.35	17	160	500	...	...	1000
3 x 10	0.7	1.0	1.8	3.82	5.22	19	269	675	82	490	1000
3 x 16	0.7	1.0	1.8	4.83	6.23	22	426	895	130	600	1000
3 x 25	0.9	1.0	1.8	6.02	7.82	25	675	1280	206	810	500
3 x 35	0.9	1.0	1.8	shaped	shaped	25	945	1430	289	775	500
3 x 50	1.0	1.0	1.9	shaped	shaped	28	1278	1850	391	965	500
3 x 70	1.1	1.0	2.0	shaped	shaped	31	1848	2540	565	1260	500
3 x 95	1.1	1.2	2.1	shaped	shaped	35	2562	3390	783	1610	500
3 x 120	1.2	1.2	2.3	shaped	shaped	40	3242	4560	990	2310	250
3 x 150	1.4	1.4	2.4	shaped	shaped	46	3978	5700	1216	2940	250
3 x 185	1.6	1.4	2.6	shaped	shaped	49	4990	6800	1525	3340	250
3 x 240	1.7	1.6	2.8	shaped	shaped	55	6557	8700	2004	4150	250
3 x 300	1.8	1.6	3.0	shaped	shaped	59	8325	10650	2514	4840	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**DOUBLE STEEL TAPE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

DIMENSIONAL CHARACTERISTICS

Nominal cross section*	Radial Thickness of			Nominal Diameters			Approximative net weight				Length on drum
	Insulation	Inner Sheath	Outer Sheath	Conductor	Insulation	Overall	Copper cable		Aluminium cable		
							Conductor	Cable	Conductor	Cable	
mm ²	mm	mm	mm	mm	mm	mm	Kg/Km	Kg/Km	Kg/Km	Kg/Km	m
FOUR CORE											
4 x 1.5	0.7	1.0	1.8	1.38	2.78	15	53	307	...	...	1000
4 x 2.5	0.7	1.0	1.8	1.78	3.18	16	88	371	...	...	1000
4 x 4	0.7	1.0	1.8	2.25	3.65	17	140	457	...	...	1000
4 x 6	0.7	1.0	1.8	2.95	4.35	19	213	585	...	...	1000
4 x 10	0.7	1.0	1.8	3.82	5.22	21	358	790	110	540	1000
4 x 16	0.7	1.0	1.8	4.83	6.23	23	568	1090	174	695	1000
4 x 25	0.9	1.0	1.8	6.02	7.82	27	900	1580	275	955	500
4 x 35	0.9	1.0	1.8	shaped	shaped	27	1259	1830	385	955	500
4 x 50	1.0	1.0	1.9	shaped	shaped	31	1705	2380	521	1200	500
4 x 70	1.1	1.2	2.1	shaped	shaped	36	2464	3330	754	1620	500
4 x 95	1.1	1.2	2.3	shaped	shaped	41	3417	4790	1044	2420	500
4 x 120	1.2	1.2	2.4	shaped	shaped	45	4323	5900	1320	2900	250
4 x 150	1.4	1.4	2.6	shaped	shaped	50	5305	7150	1621	3470	250
4 x 185	1.6	1.4	2.8	shaped	shaped	55	6654	8850	2033	4230	250
4 x 240	1.7	1.6	3.0	shaped	shaped	61	8743	11300	2672	5250	250
4 x 300	1.8	1.6	3.2	shaped	shaped	67	10969	13900	3352	6300	250

FOUR CORE WITH REDUCED NEUTRAL														
3 x Ph. +N. Ph. N.				Ph. N. Ph. N.										
3 x 25+16	0.9	0.7	1.0	1.8	6.02	4.83	7.82	6.23	26	817	1470	249	900	500
3 x 35 + 16	0.9	0.7	1.0	1.8	shaped	4.83	shaped	6.23	27	1086	1630	333	875	500
3 x 50 + 25	1.0	0.9	1.0	1.9	shaped	6.02	shaped	7.82	29	1504	2140	460	1100	500
3 x 70 + 35	1.1	0.9	1.2	2.1	shaped	shaped	shaped	shaped	34	2163	2970	662	1470	500
3 x 95 + 50	1.1	1.0	1.2	2.2	shaped	shaped	shaped	shaped	39	2989	4260	914	2190	500
3 x 120+70	1.2	1.1	1.2	2.4	shaped	shaped	shaped	shaped	43	3858	5350	1179	2670	250
3 x 150+70	1.4	1.1	1.4	2.5	shaped	shaped	shaped	shaped	47	4594	6300	1404	3110	250
3 x 185+95	1.6	1.1	1.4	2.7	shaped	shaped	shaped	shaped	52	5845	7850	1786	3790	250
3x240+120	1.7	1.2	1.6	2.9	shaped	shaped	shaped	shaped	58	7638	10000	2334	4700	250
3x300+150	1.8	1.4	1.6	3.0	shaped	shaped	shaped	shaped	63	9552	12000	2919	5550	250

- * - Solid conductor for sizes up to and including 4 mm².
- Stranded sectoral conductor for sizes of 35 mm² and above in three and four core cables.
- Stranded circular conductor for remaining sizes.
- Greater sections also available

**DOUBLE STEEL TAPE ARMoured
XLPE INSULATED, PVC SHEATHED
0.6 / 1 KV POWER CABLES
Conforming to IEC 60502-1**

ELECTRICAL CHARACTERISTICS

Nominal cross section	DC Resistance at 20°C ⁽¹⁾		Voltage Drop ⁽²⁾ Cos φ = 0.8		Current carrying capacity ⁽³⁾			
	Copper	Alu	Copper	Alu	Underground Cable		Cables in air	
					Copper	Alu	Copper	Alu
mm ²	Ω/Km	Ω/Km	V/A x Km	V/A x Km	Amp	Amp	Amp	Amp
1.5	12.1	...	24.8	...	34	...	27	...
2.5	7.41	...	14.8	...	46	...	37	...
4	4.61	...	9.2	...	59	...	50	...
6	3.08	...	6.2	...	74	...	64	...
10	1.83	3.08	3.7	6.1	101	79	88	69
16	1.15	1.91	2.4	3.9	128	100	119	93
25	0.727	1.20	1.6	2.5	162	126	157	122
35	0.524	0.868	1.2	1.9	195	152	194	151
50	0.387	0.641	0.87	1.4	235	183	235	183
70	0.268	0.443	0.64	1.0	290	226	299	234
95	0.193	0.320	0.48	0.75	347	271	362	282
120	0.153	0.253	0.40	0.60	397	310	419	327
150	0.124	0.206	0.35	0.50	444	346	481	375
185	0.0991	0.164	0.29	0.42	500	390	549	428
240	0.0754	0.125	0.24	0.33	578	452	645	503
300	0.0601	0.100	0.23	0.30	655	512	735	575
400	0.0470	0.0778	0.22	0.28	754	588	859	670

- (1) At different operating T(°C) : $R = R_{20°C} \{1 + \alpha (T°C - 20)\}$
 α : Temperature coefficient at 20°C = 0.00393 for copper & 0.00403 for aluminium
- (2) In three phase system decrease above listed voltage drop by 15%
- (3) a) Laying conditions : - Underground : Temperature of the soil 20°C - Thermal resistivity 100°C cm/w
- In air : Ambient temperature 30°C
- b) In three phase system decrease above listed current ratings by 10%