

300/500 VOLTS SINGLE-CORE NON-SHEATHED CABLE

WITH SOLID OR FLEXIBLE COPPER CONDUCTOR 70 °C

CODE DESIGNATION IEC 05 - IEC 06

Nominal cross-sectional area	Class of CU conductor	Thickness of PVC insulation	Mean overall diameter Φ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 70°C	Current Rating at 40°C			Voltage drop at 50 HZ COS. ϕ 0.8	
											
mm ²		mm	mm	kg/km	Ω /KM	Ω /KM	Amp	Amp	Amp	V/A/KM	V/A/KM
0.5	1	0.6	2.1	8.4	36	41.4	2	2	2	66.38	66.40
	5	0.6	2.3	9.3	39	43.5	2	2	2	69.73	69.74
0.75	1	0.6	2.3	11.2	24.5	28.3	11	10	9	45.41	45.43
	5	0.6	2.4	11.8	26	30.3	11	10	9	48.60	48.62
1	1	0.6	2.4	13.7	18.1	22.8	14	13	12	36.61	36.62
	5	0.6	2.6	14.0	19.5	24.2	14	13	12	38.84	38.86

300/500 VOLTS SINGLE-CORE NON-SHEATHED CABLE

WITH SOLID OR FLEXIBLE COPPER CONDUCTOR 90 °C

CODE DESIGNATION IEC 07 - IEC 08

Nominal cross-sectional area	Class of CU conductor	Thickness of PVC insulation	Mean overall diameterΦ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 90°C	Current Rating at 40°C			Voltage drop at 50 HZ COS. φ 0.8	
											
mm²		mm	mm	kg/km	Ω/KM	Ω/KM	Amp	Amp	Amp	V/A/KM	V/A/KM
0.5	1	0.6	2.1	8.4	36	45	2	2	2	72.14	72.16
	5	0.6	2.3	9.3	39	48	2	2	2	76.93	76.94
0.75	1	0.6	2.3	11.2	24.5	31	11	10	9	49.73	49.75
	5	0.6	2.4	11.8	26	33	11	10	9	52.92	52.94
1	1	0.6	2.4	13.7	18.1	24	14	13	12	38.53	38.54
	5	0.6	2.6	14.0	19.5	25.5	14	13	12	40.92	40.94
1.5	1	0.7	2.75	20	12.1	15.2	17	14	14	24.44	24.46
	5	0.7	3.10	21	13.3	16.5	17	14	14	26.52	26.53
2	1	0.8	3.15	27	9.15	11.5	22	18	16	18.52	18.54
	5	0.8	3.5	28	10.25	12.9	22	18	16	20.73	20.75
2.5	1	0.8	3.32	32	7.41	9.3	23	20	18	15.00	15.02
	5	0.8	3.80	34	7.98	10	23	20	18	16.11	16.13
3	1	0.8	3.54	37	6.1	8.1	30	22	21	13.08	13.09
	5	0.8	4.1	39	6.7	8.9	30	22	21	14.34	14.36

450/750VOLTS SINGLE-CORE NON-SHEATHED CABLE											
WITH RIGID OR FLEXIBLE COPPER CONDUCTOR 70 °C											
CODE DESIGNATION IEC 01 - IEC 02											
Nominal cross-sectional area	Class of CU conductor	Thickness of PVC insulation	Mean overall diameterΦ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 70°C	Current Rating at 40°C			Voltage drop at 50 HZ COS. φ 0.8	
											
mm²		mm	mm	kg/km	Ω/KM	Ω/KM	Free	Pipe		V/A/KM	V/A/KM
1.5	1	0.7	2.75	20	12.1	14.5	17	14	14	23.325	23.341
	2	0.7	2.93	21	12.1	14.5				23.320	23.337
	5	0.7	3.1	21	13.3	15.9				25.617	25.634
2	1	0.8	3.15	27	9.15	10.9	22	18	17	17.564	17.581
	2	0.8	3.4	27	9.15	10.9				17.559	17.576
	5	0.8	3.5	28	10.25	12.2				19.654	19.670
2.5	1	0.8	3.32	32	7.41	8.87	23	20	18	14.313	14.329
	2	0.8	3.52	32	7.41	8.87				14.309	14.325
	5	0.8	3.8	34	7.98	9.55				15.396	15.413
3	1	0.8	3.54	37	6.1	7.41	30	22	21	11.972	11.989
	2	0.8	3.79	38	6.1	7.41				11.968	11.985
	5	0.8	4.1	39	6.7	8.1				13.130	13.147
4	1	0.8	3.78	47	4.61	5.51	31	26	24	8.928	8.945
	2	0.8	4.06	48	4.61	5.51				8.925	8.942
	5	0.8	4.3	49	4.95	5.92				9.572	9.589
6	1	0.8	4.3	67	3.08	3.68	40	34	30	5.994	6.011
	2	0.8	4.6	68	3.08	3.68				5.991	6.008
	5	0.8	4.9	69	3.30	3.94				6.409	6.426
10	2	1	5.8	112	1.83	2.18	57	48	42	3.591	3.608
	5	1	6.2	113	1.91	2.28				3.741	3.758
16	2	1	6.7	169	1.15	1.38	76	65	55	2.306	2.323
	5	1	7.3	172	1.21	1.45				2.418	2.435
25	2	1.2	8.4	263	0.727	0.870	102	87	72	1.488	1.505
	5	1.2	9	267	0.780	0.933				1.588	1.605
35	2	1.2	9.4	358	0.524	0.627	127	108	89	1.096	1.113
	5	1.2	10.3	363	0.554	0.663				1.152	1.168
50	2	1.4	10.9	508	0.387	0.464	157	133	108	0.836	0.853
	5	1.4	11.9	514	0.389	0.466				0.837	0.854
70	2	1.4	12.9	699	0.268	0.323	201	170	136	0.606	0.623
	5	1.4	13.8	705	0.272	0.328				0.613	0.629
95	2	1.6	14.9	946	0.193	0.232	252	215	169	0.460	0.477
	5	1.6	16.1	955	0.296	0.356				0.657	0.674
120	2	1.6	16	1177	0.153	0.185	295	250	195	0.384	0.401
	5	1.6	17.7	1189	0.161	0.195				0.398	0.414
150	2	1.8	17.9	1471	0.124	0.151	340	287	223	0.330	0.346
	5	1.8	19.8	1488	0.129	0.157				0.337	0.354
185	2	2	20	1816	0.0991	0.1215	395	335	256	0.282	0.299
	5	2	23	1844	0.1000	0.1226				0.282	0.298
240	2	2.2	22.7	2348	0.0754	0.0941	475	400	305	0.238	0.255
	5	2.2	25.4	2376	0.0801	0.1000				0.245	0.262
300	2	2.4	25.6	2932	0.0601	0.0767	550	458	345	0.209	0.226
400	2	2.6	28.7	3880	0.0470	0.0600	645	530	400	0.182	0.199

300/500 VOLTS - 450/750 VOLTS SHEATHED CABLES

WITH RIGID OR FLEXIBLE COPPER CONDUCTORS - NO OF CONDUCTORS 2,3,4

Number of cores X cross- sectional area	Thickness of insulation	Mean overall diameterΦ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 70°C	Current carrying capacity			Voltage drop at 50HZ
						Ground at 35°C	DUCT	Air at 40°C	COS. φ 0.8
mm ²	mm	mm	kg/km	Ω/KM	Ω/KM	Amp	Amp	Amp	V/A/KM
TWO CORES									
300/500 V - CODE DESIGNATION 60227 IEC52 IEC53 IEC56									
2x0.5	0.6	5.7	40	36	41.4	2	2	2	66.367
2x0.75	0.6	6.4	50	24.5	28.3	11	10	9	45.410
2x1	0.6	7	65	18.1	22.8	14	13	12	36.607
450/750 V - CODE DESIGNATION 60227 IEC10									
2X1.5	0.7	7.5	80	12.1	14.5	24	19	20	23.320
2X2	0.8	8	95	9.15	10.9	27	21	23	17.559
2X2.5	0.8	9.5	130	7.41	8.9	30	25	28	14.309
2x3	0.8	10	150	6.1	7.41	37	28	33	11.968
2X4	0.8	11	180	4.61	5.51	41	33	40	8.925
2X6	0.8	13	275	3.08	3.68	51	40	50	5.991
2X10	1	17	440	1.83	2.18	68	55	65	3.588
2X16	1	19	620	1.15	1.38	87	68	90	2.306
2X25	1.2	23	945	0.727	0.870	112	87	115	1.487
2X35	1.2	26.5	1250	0.524	0.627	135	105	145	1.095

300/500 VOLTS - 450/750 VOLTS SHEATHED CABLES

WITH RIGID OR FLEXIBLE COPPER CONDUCTORS - NO OF CONDUCTORS 2,3,4

Number of cores X cross- sectional area	Thickness of insulation	Mean overall diameterΦ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 70°C	Current carrying capacity			Voltage drop at 50HZ
						Ground at 35°C	DUCT	Air at 40°C	COS. φ 0.8
mm2	mm	mm	kg/km	Ω/KM	Ω/KM	Amp	Amp	Amp	V/A/KM
THREE CORES									
300/500 V - CODE DESIGNATION 60227 IEC52 IEC53 IEC56									
3x0.5	0.6	6.2	50	36	41.4	2	2	2	66.367
3x0.75	0.6	6.9	65	24.5	28.3	11	10	9	45.410
3x1	0.6	7.6	80	18.1	22.8	14	13	12	36.607
450/750 V - CODE DESIGNATION 60227 IEC10									
3X1.5	0.7	8.1	100	12.1	14.5	21	18	19	23.320
3x2	0.8	8.6	127	9.15	10.9	26	20	21	17.559
3X2.5	0.8	10.3	160	7.41	8.87	27	23	24	14.309
3x3	0.8	10.8	200	6.1	7.41	33	28	29	11.968
3X4	0.8	11.9	225	4.61	5.51	35	30	32	8.925
3X6	0.8	14.0	370	3.08	3.68	45	36	40	5.991
3X10	1	18.4	550	1.83	2.18	60	48	53	3.588
3X16	1	20.5	788	1.15	1.38	78	65	72	2.306
3X25	1.2	24.8	1210	0.727	0.870	100	83	87	1.487
3X35	1.2	28.6	1600	0.524	0.627	125	100	105	1.095

300/500 VOLTS - 450/750 VOLTS SHEATHED CABLES

WITH RIGID OR FLEXIBLE COPPER CONDUCTORS - NO OF CONDUCTORS 2,3,4

Number of cores X cross- sectional area	Thickness of insulation	Mean overall diameterΦ	Net weight approx	Max resistance DC at 20°C	Max resistance AC at 70°C	Current carrying capacity			Voltage drop at 50HZ
						Ground at 35°C	DUCT	Air at 40°C	COS. φ 0.8
mm ²	mm	mm	kg/km	Ω/KM	Ω/KM	Amp	Amp	Amp	V/A/KM
FOUR CORES									
300/500 V - CODE DESIGNATION 60227 IEC52 IEC53 IEC56									
4x0.5	0.6	6.9	66	36	41.4	2	2	2	66.367
4x0.75	0.6	7.7	85	24.5	28.3	11	10	9	45.410
4x1	0.6	8.4	105	18.1	22.8	14	13	12	36.607
450/750 V - CODE DESIGNATION 60227 IEC10									
4X1.5	0.7	9.1	130	12.1	14.5	21	18	19	23.320
4x2	0.8	9.7	155	9.15	10.9	26	20	21	17.559
4X2.5	0.8	11.5	195	7.41	8.87	27	23	24	14.309
4X3	0.8	12.1	245	6.1	7.41	33	28	29	11.968
4X4	0.8	13.3	280	4.61	5.51	35	30	32	8.925
4X6	0.8	15.7	453	3.08	3.68	45	36	40	5.991
4X10	1	20.5	680	1.83	2.18	60	48	53	3.588
4X16	1	22.9	980	1.15	1.38	78	65	72	2.306
4X25	1.2	27.8	1520	0.727	0.870	100	83	87	1.487
4X35	1.2	32.0	2110	0.524	0.627	125	100	105	1.095

600/1000 VOLTS MULTI-CORE CABLES
Unarmoured - Armoured STA - Armoured SWA
PVC INSULATION &PVC SHEATH

THREE CORE-CIRCULAR COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X10	1	1.8	16.5	472	1.8	19.3	591	1.8	21.0	962
3X16	1	1.8	18.7	667	1.8	21.5	801	1.8	23.9	1359
3X25	1.2	1.8	22.1	980	1.8	24.9	1138	1.8	27.4	1798
3X35	1.2	1.8	24.3	1285	1.8	27.1	1459	1.9	29.7	2190
3X50	1.4	1.8	28.0	1779	1.9	31.2	2003	2.1	34.6	3091
3X70	1.4	2.0	32.2	2406	2.1	35.5	2677	2.2	39.0	3916
3X95	1.6	2.1	37.1	3225	2.3	41.9	3688	2.4	44.0	4968
3X120	1.6	2.2	40.3	3977	2.4	45.2	4493	2.5	48.4	6312
3X150	1.8	2.4	43.8	4915	2.5	48.8	5489	2.6	52.0	7455
3X185	2	2.5	49.1	6056	2.7	54.4	6723	2.8	57.6	8916
3X240	2.2	2.7	55.8	7800	2.9	61.3	8592	3.0	64.5	11071
3X300	2.4	3.0	62.0	9689	3.1	67.8	10605	3.2	71.0	13350
3X400	2.6	3.2	68.7	12690	3.4	74.4	13741	3.5	79.4	17714

600/1000 VOLTS MULTI-CORE CABLES
Unarmoured - Armoured STA - Armoured SWA
PVC INSULATION &PVC SHEATH

FOUR CORE-CIRCULAR COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
4X10	1	1.8	18.0	596	1.8	20.8	726	1.8	22.5	1129
4X16	1	1.8	20.4	851	1.8	23.2	997	1.8	25.5	1600
4X25	1.2	1.8	24.3	1262	1.8	27.1	1436	1.9	29.7	2166
4X35	1.2	1.8	26.7	1663	1.9	29.8	1873	2.0	33.2	2911
4X50	1.4	1.9	31.1	2327	2.0	34.3	2584	2.2	37.8	3782
4X70	1.4	2.1	35.7	3156	2.2	39.2	3467	2.3	42.6	4834
4X95	1.6	2.3	41.1	4236	2.4	46.1	4766	2.5	49.3	6621
4X120	1.6	2.4	44.8	5233	2.6	49.9	5823	2.7	53.1	7832
4X150	1.8	2.5	48.6	6475	2.7	53.9	7134	2.8	57.1	9308
4X185	2	2.7	54.6	7983	2.9	60.1	8752	3.0	63.3	11180
4X240	2.2	3.0	62.1	10291	3.1	67.9	11208	3.2	71.1	13955
4X300	2.4	3.2	69.0	12792	3.4	75.1	13858	3.5	79.7	17840
4X400	2.6	3.4	76.5	16775	3.6	82.5	18001	3.8	87.5	22406

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

PVC INSULATION &PVC SHEATH

THREE CORE-CIRCULAR ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X10	1	1.8	16.5	286	1.8	19.3	405	1.8	21.0	776
3X16	1	1.8	18.7	369	1.8	21.5	503	1.8	23.9	1062
3X25	1.2	1.8	22.1	515	1.8	24.9	673	1.8	27.4	1333
3X35	1.2	1.8	24.3	634	1.8	27.1	808	1.9	29.7	1539
3X50	1.4	1.8	28.0	849	1.9	31.2	1073	2.1	34.6	2161
3X70	1.4	2.0	32.2	1104	2.1	35.5	1375	2.2	39.0	2614
3X95	1.6	2.1	37.1	1458	2.3	41.9	1921	2.4	44.0	3201
3X120	1.6	2.2	40.3	1745	2.4	45.2	2261	2.5	48.4	4080
3X150	1.8	2.4	43.8	2125	2.5	48.8	2699	2.6	52.0	4665
3X185	2	2.5	49.1	2615	2.7	54.4	3282	2.8	57.6	5475
3X240	2.2	2.7	55.8	3336	2.9	61.3	4128	3.0	64.5	6607
3X300	2.4	3.0	62.0	4109	3.1	67.8	5025	3.2	71.0	7770
3X400	2.6	3.2	68.7	5250	3.4	74.4	6301	3.5	79.4	10274

600/1000 VOLTS MULTI-CORE CABLES
Unarmoured - Armoured STA - Armoured SWA
PVC INSULATION &PVC SHEATH

FOUR CORE-CIRCULAR ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
4X10	1	1.8	18.0	348	1.8	20.8	478	1.8	22.5	881
4X16	1	1.8	20.4	454	1.8	23.2	600	1.8	25.5	1203
4X25	1.2	1.8	24.3	642	1.8	27.1	816	1.9	29.7	1546
4X35	1.2	1.8	26.7	795	1.9	29.8	1005	2.0	33.2	2043
4X50	1.4	1.9	31.1	1087	2.0	34.3	1344	2.2	37.8	2542
4X70	1.4	2.1	35.7	1420	2.2	39.2	1731	2.3	42.6	3098
4X95	1.6	2.3	41.1	1880	2.4	46.1	2410	2.5	49.3	4265
4X120	1.6	2.4	44.8	2257	2.6	49.9	2847	2.7	53.1	4856
4X150	1.8	2.5	48.6	2755	2.7	53.9	3414	2.8	57.1	5588
4X185	2	2.7	54.6	3395	2.9	60.1	4164	3.0	63.3	6592
4X240	2.2	3.0	62.1	4339	3.1	67.9	5256	3.2	71.1	8003
4X300	2.4	3.2	69.0	5352	3.4	75.1	6418	3.5	79.7	10400
4X400	2.6	3.4	76.5	6855	3.6	82.5	8081	3.8	87.5	12486

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

XLPE INSULATION &PVC SHEATH

THREE CORE-CIRCULAR COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X10	0.7	1.8	15.2	420	1.8	18.0	530	1.8	19.7	873
3X16	0.7	1.8	17.4	606	1.8	20.2	732	1.8	21.9	1122
3X25	0.9	1.8	20.8	901	1.8	23.6	1050	1.8	26.0	1667
3X35	0.9	1.8	23.0	1196	1.8	25.7	1353	1.8	28.3	2050
3X50	1	1.8	26.2	1645	1.9	29.3	1850	2.0	31.9	2648
3X70	1.1	1.9	30.8	2268	2.0	34.1	2523	2.2	37.6	3718
3X95	1.1	2.1	34.7	3011	2.2	39.5	3438	2.3	41.7	4654
3X120	1.2	2.2	38.4	3765	2.3	43.3	4250	2.4	46.6	6001
3X150	1.4	2.3	41.9	4668	2.5	46.9	5210	2.6	50.2	7109
3X185	1.6	2.5	47.2	5759	2.6	52.4	6392	2.7	55.7	8519
3X240	1.7	2.7	53.5	7408	2.8	58.9	8156	3.0	62.2	10553
3X300	1.8	2.9	59.2	9194	3.0	64.9	10054	3.2	68.3	12703
3X400	2	3.1	65.9	12114	3.3	71.5	13104	3.4	76.6	16949

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

XLPE INSULATION &PVC SHEATH

FOUR CORE-CIRCULAR COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
4X10	0.7	1.8	16.5	529	1.8	19.3	649	1.8	21.0	1020
4X16	0.7	1.8	19.0	774	1.8	21.8	910	1.7	23.2	1321
4X25	0.9	1.8	22.8	1159	1.8	25.5	1313	1.8	28.1	2005
4X35	0.9	1.8	25.2	1548	1.8	28.2	1736	1.9	30.8	2502
4X50	1	1.9	29.0	2152	2.0	32.2	2387	2.1	35.7	3518
4X70	1.1	2.0	34.2	2974	2.2	37.6	3267	2.3	41.1	4585
4X95	1.1	2.2	38.6	3956	2.3	43.4	4443	2.5	46.7	6203
4X120	1.2	2.3	42.7	4954	2.5	47.7	5509	2.6	51.0	7443
4X150	1.4	2.4	46.6	6149	2.6	51.7	6771	2.7	55.0	8871
4X185	1.6	2.6	52.5	7591	2.8	57.9	8321	2.9	61.2	10675
4X240	1.7	2.9	59.5	9775	3.1	65.2	10640	3.2	68.5	13297
4X300	1.8	3.1	65.9	12141	3.3	71.9	13139	3.4	76.6	16978
4X400	2	3.3	73.4	16015	3.5	79.3	17169	3.7	84.4	21433

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

XLPE INSULATION &PVC SHEATH

THREE CORE-CIRCULAR ALUMINUM CONDUCTOR

Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X10	0.7	1.8	15.2	234	1.8	18.0	344	1.8	19.7	687
3X16	0.7	1.8	17.4	309	1.8	20.2	434	1.8	21.9	824
3X25	0.9	1.8	20.8	436	1.8	23.6	585	1.8	26.0	1202
3X35	0.9	1.8	23.0	545	1.8	25.7	702	1.8	28.3	1399
3X50	1	1.8	26.2	715	1.9	29.3	920	2.0	31.9	1718
3X70	1.1	1.9	30.8	966	2.0	34.1	1221	2.2	37.6	2416
3X95	1.1	2.1	34.7	1244	2.2	39.5	1566	2.3	41.7	2887
3X120	1.2	2.2	38.4	1533	2.3	43.3	2018	2.4	46.6	3769
3X150	1.4	2.3	41.9	1878	2.5	46.9	2420	2.6	50.2	4319
3X185	1.6	2.5	47.2	2318	2.6	52.4	2951	2.7	55.7	5078
3X240	1.7	2.7	53.5	2944	2.8	58.9	3692	3.0	62.2	6089
3X300	1.8	2.9	59.2	3614	3.0	64.9	4474	3.2	68.3	7123
3X400	2	3.1	65.9	4674	3.3	71.5	5664	3.4	76.6	9509

600/1000 VOLTS MULTI-CORE CABLES
Unarmoured - Armoured STA - Armoured SWA
XLPE INSULATION &PVC SHEATH

FOUR CORE-CIRCULAR ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of PVC insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
4X10	0.7	1.8	16.5	281	1.8	19.3	401	1.8	21.0	772
4X16	0.7	1.8	19.0	377	1.8	21.8	513	1.7	23.2	924
4X25	0.9	1.8	22.8	539	1.8	25.5	693	1.8	28.1	1385
4X35	0.9	1.8	25.2	680	1.8	28.2	868	1.9	30.8	1634
4X50	1	1.9	29.0	912	2.0	32.2	1147	2.1	35.7	2278
4X70	1.1	2.0	34.2	1238	2.2	37.6	1531	2.3	41.1	2849
4X95	1.1	2.2	38.6	1600	2.3	43.4	1970	2.5	46.7	3847
4X120	1.2	2.3	42.7	1978	2.5	47.7	2533	2.6	51.0	4467
4X150	1.4	2.4	46.6	2429	2.6	51.7	3051	2.7	55.0	5151
4X185	1.6	2.6	52.5	3003	2.8	57.9	3733	2.9	61.2	6087
4X240	1.7	2.9	59.5	3823	3.1	65.2	4688	3.2	68.5	7345
4X300	1.8	3.1	65.9	4701	3.3	71.9	5699	3.4	76.6	9538
4X400	2	3.3	73.4	6095	3.5	79.3	7249	3.7	84.4	11513

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

XLPE INSULATION &PVC SHEATH

THREE CORE-SECTOR SHAPED ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X35	0.9	1.8	20	470	1.8	23	770	1.8	26	1250
3X50	1	1.8	23.5	650	1.8	26.5	1000	1.9	30	1550
3X70	1.1	1.8	27	880	1.9	30	1280	2.1	34	2100
3X95	1.1	1.9	29	1130	2	33	1600	2.2	37	2550
3X120	1.2	2	33	1430	2.2	37	2300	2.3	41	3000
3X150	1.4	2.1	36	1730	2.2	40	2600	2.4	44	3420
3X185	1.6	2.3	42	2210	2.4	46	3300	2.6	51.5	4650
3X240	1.7	2.5	48	2850	2.6	52	4100	2.8	57.5	5600
3X300	1.8	2.6	50.5	3460	2.7	55	4850	2.9	60.5	6750

FOUR CORE WITH REDUCED NEUTRAL-SECTOR SHAPED ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X35+16	0.9-0.7	1.8	23.5	620	1.8	27	950	1.9	28.5	1450
3X50+25	1- 0.9	1.8	27	800	1.9	30	1150	2	32	1800
3X70+35	1.1 -0.9	2	31	1100	2.1	34.5	1550	2.1	36.5	2400
3X95+50	1.1-1	2.1	34.5	1410	2.2	40	2250	2.3	41	2900
3X120+70	1.2-1.1	2.2	38.5	1990	2.4	43	2750	2.5	46.5	3900
3X150+70	1.4-1.1	2.3	42.5	2130	2.5	47	3200	2.6	50	4500
3X185+95	1.6-1.1	2.5	47.5	2660	2.7	52	3900	2.7	55	5250
3X240+120	1.7-1.2	2.7	52.5	3990	2.8	58	4800	2.9	61	6320
3X300+150	1.8-1.4	2.8	58	4160	3	63	5700	3.1	66	7400

FOUR CORE-SECTOR SHAPED ALUMINUM CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
4X25	0.9	1.8	21	520	1.8	23.5	790	1.9	26.5	1450
4X35	0.9	1.8	23.5	650	1.8	25.5	950	1.9	28.5	1680
4X50	1	1.8	26	840	1.9	29	1200	2.1	32	2300
4X70	1.1	1.9	29.5	1150	2	33	1600	2.2	36	2800
4X95	1.1	2	32.5	1500	2.2	37	2300	2.4	37.5	3500
4X120	1.2	2.1	36.5	1860	2.3	41	2800	2.5	44.5	4300
4X150	1.4	2.3	40.5	2300	2.4	45	3200	2.6	48	5100
4X185	1.6	2.4	46.5	2900	2.6	51	4100	2.8	54.5	6100
4X240	1.7	2.6	50.5	3650	2.8	55	5000	3	59.5	7300
4X300	1.8	2.7	55	5420	2.9	60	6000	3.2	63.5	8580

600/1000 VOLTS MULTI-CORE CABLES

Unarmoured - Armoured STA - Armoured SWA

XLPE INSULATION &PVC SHEATH

THREE CORE-SECTOR SHAPED COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X35	0.9	1.8	20	1121	1.8	23	1421	1.8	26	1901
3X50	1	1.8	23.5	1580	1.8	26.5	1930	1.9	30	2480
3X70	1.1	1.8	27	2182	1.9	30	2582	2.1	34	3402
3X95	1.1	1.9	29	2897	2	33	3367	2.2	37	4317
3X120	1.2	2	33	3662	2.2	37	4532	2.3	41	5232
3X150	1.4	2.1	36	4520	2.2	40	5390	2.4	44	6210
3X185	1.6	2.3	42	5651	2.4	46	6741	2.6	51.5	8091
3X240	1.7	2.5	48	7314	2.6	52	8564	2.8	57.5	10064
3X300	1.8	2.6	50.5	9040	2.7	55	10430	2.9	60.5	12330

FOUR CORE WITH REDUCED NEUTRAL-SECTOR SHAPED COPPER CONDUCTOR

Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
3X35+16	0.9-0.7	1.8	23.5	1370	1.8	27	1700	1.9	28.5	2200
3X50+25	1- 0.9	1.8	27	1885	1.9	30	2235	2	32	2885
3X70+35	1.1 -0.9	2	31	2619	2.1	34.5	3069	2.1	36.5	3919
3X95+50	1.1-1	2.1	34.5	3487	2.2	40	4327	2.3	41	4977
3X120+70	1.2-1.1	2.2	38.5	4656	2.4	43	5416	2.5	46.5	6566
3X150+70	1.4-1.1	2.3	42.5	5354	2.5	47	6424	2.6	50	7724
3X185+95	1.6-1.1	2.5	47.5	6690	2.7	52	7930	2.7	55	9280
3X240+120	1.7-1.2	2.7	52.5	9198	2.8	58	10008	2.9	61	11528
3X300+150	1.8-1.4	2.8	58	10670	3	63	12210	3.1	66	13910

FOUR CORE WITH REDUCED NEUTRAL-SECTOR SHAPED COPPER CONDUCTOR										
Nominal cross-sectional area	Thickness of XLPE insulation	Unarmoured			Armoured STA			Armoured SWA		
		Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx	Thickness of SHEATH	overall diameter Φ approx	Net weight approx
mm ²	mm	mm	mm	kg/km	mm	mm	kg/km	mm	mm	kg/km
4X25	0.9	1.8	21	1140	1.8	23.5	1410	1.9	26.5	2070
4X35	0.9	1.8	23.5	1518	1.8	25.5	1818	1.9	28.5	2548
4X50	1	1.8	26	2080	1.9	29	2440	2.1	32	3540
4X70	1.1	1.9	29.5	2886	2	33	3336	2.2	36	4536
4X95	1.1	2	32.5	3856	2.2	37	4656	2.4	37.5	5856
4X120	1.2	2.1	36.5	4836	2.3	41	5776	2.5	44.5	7276
4X150	1.4	2.3	40.5	6020	2.4	45	6920	2.6	48	8820
4X185	1.6	2.4	46.5	7488	2.6	51	8688	2.8	54.5	10688
4X240	1.7	2.6	50.5	9602	2.8	55	10952	3	59.5	13252
4X300	1.8	2.7	55	12860	2.9	60	13440	3.2	63.5	16020

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH COPPER CONDUCTOR - PVC 70 °C

Nominal cross-sectional area	Class of conductor	Thickness of insulation	Un-armoured			Armoured				
			Thickness of sheath	Mean overall diameter Φ approx	Net weight approx	Thickness of bedding sheath	Thickness of ALU tape	Thickness of sheath	Mean overall diameter Φ approx	Net weight approx
mm ²		mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km
1.5	1	0.8	1.1	4.9	40	—	—	—	—	—
	2	0.8	1.1	5.1	42	—	—	—	—	—
2	1	0.8	1.1	5.4	40	—	—	—	—	—
	2	0.8	1.1	5.6	42	—	—	—	—	—
2.5	1	0.8	1.1	5.6	55	—	—	—	—	—
	2	0.8	1.1	5.8	57	—	—	—	—	—
3	1	1	1.1	5.8	62	—	—	—	—	—
	2	1	1.1	6.1	64	—	—	—	—	—
4	1	1	1.1	6.0	73	—	—	—	—	—
	2	1	1.1	6.3	76	—	—	—	—	—
6	2	1	1.2	6.9	99	—	—	—	—	—
10	2	1	1.2	8.2	151	0.8	0.5	1.3	12.1	251
16	2	1	1.2	9.2	215	0.8	0.5	1.4	13.0	325
25	2	1.2	1.3	11.0	322	0.8	0.5	1.4	14.8	448
35	2	1.2	1.3	12.1	425	0.8	0.5	1.5	15.9	563
50	2	1.4	1.4	13.7	588	0.8	0.5	1.5	17.6	744
70	2	1.4	1.5	15.8	797	0.9	0.5	1.6	19.8	979
95	2	1.6	1.5	17.9	1063	0.9	0.5	1.7	22.0	1272
120	2	1.6	1.6	19.1	1306	0.9	0.5	1.7	23.2	1529
150	2	1.8	1.6	21.2	1621	1.0	0.5	1.8	25.3	1871
185	2	2	1.7	23.4	1990	1.0	0.5	1.8	27.7	2270
240	2	2.2	1.8	26.3	2555	1.1	0.5	1.9	30.7	2875
300	2	2.4	1.9	29.4	3178	1.1	0.5	2.0	33.9	3543
400	2	2.6	2.0	32.7	4170	1.2	0.5	2.2	37.4	4584
500	2	2.8	2.2	37.3	5177	1.3	0.5	2.3	42.1	5665
630	2	2.8	2.3	41.1	6451	1.3	0.5	2.4	46.0	7001
800	2	2.8	2.4	44.8	8099	1.4	0.5	2.6	49.9	8715

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH COPPER CONDUCTOR - PVC 70 °C

Nominal cross-sectional area	Max resistance DC at 20°C	Max resistance AC at 70°C	Un-armoured					armoured		
			Current carrying capacity				Voltage drop at 50 HZ COS. ϕ 0.8	Current carrying capacity		Voltage drop at 50 HZ COS. ϕ 0.8
			Ground at 35°C		Air at 40°C			Ground at 35°C	Air at 40°C	
mm2	Ω/KM	Ω/KM	Direct laid	Duct	Free	Pipe	V/A/KM	Direct laid	Free	V/A/KM
1.5	12.1	14.5	24	19	18	15	23.381	—	—	—
2	9.15	10.9	27	21	20	17	17.598	—	—	—
2.5	7.41	8.87	31	24	23	19	14.351	—	—	—
3	6.1	7.41	37	29	27	22	12.027	—	—	—
4	4.61	5.51	41	32	31	24	8.979	—	—	—
6	3.08	3.68	51	40	40	35	6.033	—	—	—
10	1.83	2.18	68	53	55	42	3.617	67	54	3.614
16	1.15	1.38	87	68	71	55	2.329	85	70	2.329
25	0.727	0.870	112	87	95	72	1.509	110	93	1.506
35	0.524	0.627	134	105	116	89	1.115	131	114	1.114
50	0.387	0.464	158	123	141	108	0.853	155	138	0.849
70	0.268	0.323	195	155	179	136	0.622	191	175	0.620
95	0.193	0.232	235	188	222	169	0.474	230	218	0.472
120	0.153	0.185	265	212	258	190	0.397	260	253	0.395
150	0.124	0.151	300	240	269	215	0.342	294	264	0.339
185	0.0991	0.1215	335	268	345	245	0.294	328	338	0.290
240	0.0754	0.0941	385	316	407	285	0.249	377	399	0.244
300	0.0601	0.0767	435	357	469	324	0.220	426	460	0.215
400	0.0470	0.0593	490	402	542	370	0.191	480	531	0.186
500	0.0366	0.0476	545	450	624	420	0.170	534	612	0.166
630	0.0283	0.0386	610	500	717	470	0.154	598	703	0.150
800	0.0221	0.0289	781	641	888	582.2	0.137	766	870	0.134

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH COPPER CONDUCTOR - XLPE 90 °C

Nominal cross-sectional area	Class of conductor	Thickness of insulation	Un-armoured			Armoured				
			Thickness of sheath	Mean overall diameter Φ approx	Net weight approx	Thickness of bedding sheath	Thickness of ALU tape	Thickness of sheath	Mean overall diameter Φ approx	Net weight approx
mm ²		mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km
1.5	1	0.7	1.1	4.7	33	—	—	—	—	—
	2	0.7	1.1	4.9	35	—	—	—	—	—
2	1	0.7	1.1	5.2	42	—	—	—	—	—
	2	0.7	1.1	3.7	43	—	—	—	—	—
2.5	1	0.7	1.1	5.4	47	—	—	—	—	—
	2	0.7	1.1	5.6	49	—	—	—	—	—
3	1	0.7	1.1	5.2	53	—	—	—	—	—
	2	0.7	1.1	5.5	55	—	—	—	—	—
4	1	0.7	1.1	5.4	64	—	—	—	—	—
	2	0.7	1.1	5.7	66	—	—	—	—	—
6	2	0.7	1.2	6.3	86	—	—	—	—	—
10	2	0.7	1.2	7.6	135	0.8	0.5	1.3	11.5	213
16	2	0.7	1.2	8.6	197	0.8	0.5	1.4	12.4	314
25	2	0.9	1.3	10.4	299	0.8	0.5	1.4	14.2	436
35	2	0.9	1.3	11.5	399	0.8	0.5	1.5	15.3	550
50	2	1	1.4	12.9	556	0.8	0.5	1.5	16.8	727
70	2	1.1	1.5	15.2	761	0.9	0.5	1.6	19.2	965
95	2	1.1	1.5	16.9	1018	0.9	0.5	1.7	21.0	1248
120	2	1.2	1.6	18.3	1257	0.9	0.5	1.7	22.4	1510
150	2	1.4	1.6	20.4	1565	1.0	0.5	1.8	24.5	1851
185	2	1.6	1.7	22.6	1926	1.0	0.5	1.8	26.9	2249
240	2	1.7	1.8	25.3	2478	1.1	0.5	1.9	29.7	2848
300	2	1.8	1.9	28.2	3085	1.1	0.5	2.0	32.7	3508
400	2	2	2.0	31.5	4061	1.2	0.5	2.2	36.2	4547
500	2	2.2	2.2	36.1	5045	1.3	0.5	2.3	40.9	5625
630	2	2.4	2.3	40.3	6303	1.3	0.5	2.4	45.2	6973
800	2	2.6	2.4	44.4	7935	1.4	0.5	2.6	49.5	8700

**600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE
WITH COPPER CONDUCTOR - XLPE 90 °C**

Nominal cross-sectional area	Max resistance DC at 20°C	Max resistance AC at 90°C	Un-armoured					armoured		
			Current carrying capacity				Voltage drop at 50 HZ COS. ϕ 0.8	Current carrying capacity		Voltage drop at 50 HZ COS. ϕ 0.8
			Ground at 35°C		Air at 40°C			Ground at 35°C	Air at 40°C	
mm2	Ω/KM	Ω/KM	Direct laid	Duct	Free	Pipe	V/A/KM	Direct laid	Free	V/A/KM
1.5	12.1	15.4	30	23	22	19	24.818	—	—	—
2	9.15	11.5	34	27	25	22	18.556	—	—	—
2.5	7.41	9.45	40	31	29	24	15.276	—	—	—
3	6.1	8.52	44	34	33	28	13.794	—	—	—
4	4.61	5.88	50	39	38	32	9.563	—	—	—
6	3.08	3.93	63	49	48	40	6.426	—	—	—
10	1.83	2.33	83	65	66	54	3.851	81	65	3.882
16	1.15	1.47	107	83	88	70	2.468	105	86	2.496
25	0.727	0.927	137	107	116	92	1.596	134	114	1.619
35	0.524	0.668	165	129	143	112	1.177	162	140	1.199
50	0.387	0.494	195	152	175	134	0.896	191	172	0.916
70	0.268	0.343	238	188	222	168	0.651	233	218	0.668
95	0.193	0.248	286	226	274	205	0.496	280	269	0.512
120	0.153	0.197	327	258	326	237	0.413	320	319	0.428
150	0.124	0.16	363	290	367	265	0.354	356	360	0.368
185	0.0991	0.129	410	328	425	300	0.303	402	417	0.316
240	0.0754	0.100	474	379	500	360	0.255	465	490	0.267
300	0.0601	0.0815	532	426	580	410	0.224	521	568	0.236
400	0.047	0.0661	600	492	675	469	0.199	588	662	0.209
500	0.0366	0.0543	673	552	770	530	0.179	660	755	0.188
630	0.0283	0.0453	750	615	900	600	0.163	735	882	0.172
800	0.0221	0.0357	960	788	1152	768	0.147	941	1129	0.156

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH ALUMINUM CONDUCTOR - PVC 70 °C

Nominal cross-sectional area	Class of conductor	Thickness of insulation	Un-armoured			Armoured				
			Thickness of sheath	Mean overall diameter Φ approx	Net weight approx	Thickness of bedding sheath	Thickness of ALU tape	Thickness of sheath	Mean overall diameter Φ approx	Net weight approx
mm ²		mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km
10	2	1	1.2	8.2	89	0.8	0.5	1.3	12.1	189
16	2	1	1.2	9.2	116	0.8	0.5	1.4	13.0	226
25	2	1.2	1.3	11.0	167	0.8	0.5	1.4	14.8	293
35	2	1.2	1.3	12.1	208	0.8	0.5	1.5	15.9	346
50	2	1.4	1.4	13.7	278	0.8	0.5	1.5	17.6	434
70	2	1.4	1.5	15.8	363	0.9	0.5	1.6	19.8	545
95	2	1.6	1.5	17.9	474	0.9	0.5	1.7	22.0	683
120	2	1.6	1.6	19.1	562	0.9	0.5	1.7	23.2	785
150	2	1.8	1.6	21.2	691	1.0	0.5	1.8	25.3	941
185	2	2	1.7	23.4	843	1.0	0.5	1.8	27.7	1123
240	2	2.2	1.8	26.3	1067	1.1	0.5	1.9	30.7	1387
300	2	2.4	1.9	29.4	1318	1.1	0.5	2.0	33.9	1683
400	2	2.6	2.0	32.7	1690	1.2	0.5	2.2	37.4	2104
500	2	2.8	2.2	37.3	2077	1.3	0.5	2.3	42.1	2565
630	2	2.8	2.3	41.1	2545	1.3	0.5	2.4	46.0	3095
800	2	2.8	2.4	44.8	3139	1.4	0.5	2.6	49.9	3755

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH ALUMINUM CONDUCTOR - XLPE 90 °C

Nominal cross-sectional area	Class of conductor	Thickness of insulation	Un-armoured			Armoured				
			Thickness of sheath	Mean overall diameter Φ approx	Net weight approx	Thickness of bedding sheath	Thickness of ALU tape	Thickness of sheath	Mean overall diameter Φ approx	Net weight approx
mm ²		mm	mm	mm	kg/km	mm	mm	mm	mm	kg/km
10	2	0.7	1.2	7.6	73	0.8	0.5	1.3	11.5	151
16	2	0.7	1.2	8.6	98	0.8	0.5	1.4	12.4	215
25	2	0.9	1.3	10.4	144	0.8	0.5	1.4	14.2	281
35	2	0.9	1.3	11.5	182	0.8	0.5	1.5	15.3	333
50	2	1	1.4	12.9	246	0.8	0.5	1.5	16.8	417
70	2	1.1	1.5	15.2	327	0.9	0.5	1.6	19.2	531
95	2	1.1	1.5	16.9	429	0.9	0.5	1.7	21.0	659
120	2	1.2	1.6	18.3	513	0.9	0.5	1.7	22.4	766
150	2	1.4	1.6	20.4	635	1.0	0.5	1.8	24.5	921
185	2	1.6	1.7	22.6	779	1.0	0.5	1.8	26.9	1102
240	2	1.7	1.8	25.3	990	1.1	0.5	1.9	29.7	1360
300	2	1.8	1.9	28.2	1225	1.1	0.5	2.0	32.7	1648
400	2	2	2.0	31.5	1581	1.2	0.5	2.2	36.2	2067
500	2	2.2	2.2	36.1	1945	1.3	0.5	2.3	40.9	2525
630	2	2.4	2.3	40.3	2397	1.3	0.5	2.4	45.2	3067
800	2	2.6	2.4	44.4	2975	1.4	0.5	2.6	49.5	3740

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH ALUMINUM CONDUCTOR - PVC 70 °C

Nominal cross-sectional area	Max resistance DC at 20°C	Max resistance AC at 70°C	Un-armoured					armoured		
			Current carrying capacity				Voltage drop at 50 HZ COS. ϕ 0.8	Current carrying capacity		Voltage drop at 50 HZ COS. ϕ 0.8
			Ground at 35°C		Air at 40°C			Ground at 35°C	Air at 40°C	
mm2	Ω/KM	Ω/KM	Direct laid	Duct	Free	Pipe	V/A/KM	Direct laid	Free	V/A/KM
10	3.08	3.3	55	43	40	34	5.409	54	40	5.438
16	1.91	2.3	68	53	55	47	3.801	67	54	3.828
25	1.2	1.44	87	68	96	82	2.421	85	94	2.443
35	0.868	1.043	105	82	84	71	1.781	103	82	1.801
50	0.641	0.771	123	96	105	89	1.344	121	103	1.363
70	0.443	0.533	151	118	130	111	0.958	148	127	0.974
95	0.32	0.385	181	141	161	137	0.719	177	158	0.735
120	0.253	0.305	206	165	190	152	0.589	202	186	0.604
150	0.206	0.249	230	184	215	172	0.499	225	211	0.512
185	0.164	0.199	261	209	250	195	0.418	256	245	0.431
240	0.125	0.153	305	250	300	234	0.343	299	294	0.355
300	0.1	0.123	342	280	350	273	0.294	335	343	0.305
400	0.0778	0.0971	390	320	405	316	0.251	382	397	0.261
500	0.0605	0.0777	444	364	472	368	0.219	435	463	0.228
630	0.0469	0.0629	505	414	555	433	0.193	495	544	0.202
800	0.0367	0.0472	645	529	709	553	0.166	632	695	0.175

600/1000 VOLTS SINGLE-CORE -SHEATHED CABLE

WITH ALUMINUM CONDUCTOR - XLPE 90 °C

Nominal cross-sectional area	Max resistance DC at 20°C	Max resistance AC at 90°C	Un-armoured					armoured		
			Current carrying capacity				Voltage drop at 50 HZ COS. ϕ 0.8	Current carrying capacity		Voltage drop at 50 HZ COS. ϕ 0.8
			Ground at 35°C		Air at 40°C			Ground at 35°C	Air at 40°C	
mm2	Ω/KM	Ω/KM	Direct laid	Duct	Free	Pipe	V/A/KM	Direct laid	Free	V/A/KM
10	3.08	3.95	63	50	45	36	6.443	61	45	6.474
16	1.91	2.45	69	55	56	45	4.036	67	55	4.064
25	1.2	1.54	88	71	98	78	2.576	87	96	2.600
35	0.868	1.113	106	85	85	68	1.889	104	84	1.911
50	0.641	0.822	125	100	106	85	1.421	122	105	1.441
70	0.443	0.569	153	123	132	105	1.012	150	130	1.030
95	0.32	0.411	184	147	163	131	0.756	180	161	0.773
120	0.253	0.325	209	167	192	154	0.618	204	190	0.633
150	0.206	0.265	233	186	217	174	0.522	228	214	0.536
185	0.164	0.212	264	211	253	202	0.436	259	249	0.449
240	0.125	0.163	315	252	310	248	0.356	309	306	0.368
300	0.1000	0.1310	353	283	362	289	0.304	346	356	0.315
400	0.0778	0.1000	390	312	405	324	0.253	382	399	0.263
500	0.0605	0.0870	482	386	513	410	0.231	473	505	0.240
630	0.0469	0.0655	510	408	561	448	0.196	500	552	0.205
800	0.0367	0.0513	680	544	747	598	0.223	666	736	0.232

ALUMINIUM SINGLE CORE CABLE - XLPE INSULATED

SIZE	DIMENTIONS					WEIGHTS			Max resistance		Current carrying capacity Air at 40°C
	no. of wiresX diameter Φ		con dia Φ	insulation thick	Overall diameter	ALU H14	insulation XLPE	Total weight approx	DC at 20°C	AC at 90°C	
mm2	NO	mm	mm	mm	mm	kg/km	kg/km	kg/km	Ω /KM	Ω /KM	Amp
16	7X	1.7	5.1	0.7	6.5	44	14	58	1.91	2.45	83
25	7X	2.1	6.3	0.9	8.1	67	22	89	1.2	1.540	107
35	7X	2.5	7.5	0.9	9.3	94	26	120	0.868	1.113	128
50	7X	3	9	1	11.0	135	35	170	0.641	0.822	151
50	19X	1.8	9	1	11.0	133	33	166	0.641	0.822	151
70	19X	2.1	10.5	1.1	12.7	181	43	224	0.443	0.569	185
95	19X	2.5	12.5	1.2	14.9	256	56	312	0.32	0.411	222
120	19X	2.14	14	1.2	16.4	322	63	385	0.253	0.325	252

ALUMINIUM SINGLE CORE CABLE - PVC INSULATED

SIZE	DIMENTIONS					WEIGHTS			Max resistance		Current carrying capacity Air at 40°C
	no. of wiresX diameter Φ		cond dia Φ	ins thick	Overall diameter	ALU H14	insulation pvc	Total weight approx	DC at 20°C	AC at 70°C	
mm2	NO	mm	mm	mm	mm	kg/km	kg/km	kg/km	Ω /KM	Ω /KM	Amp
16	7X	1.7	5.1	1	7.1	44	32	76	1.91	2.3	68
25	7X	2.1	6.3	1.2	8.7	67	47	114	1.2	1.440	87
35	7X	2.5	7.5	1.2	9.9	94	55	149	0.868	1.043	104
50	7X	3	9	1.4	11.8	135	77	212	0.641	0.771	125
50	19X	1.8	9	1.4	11.8	133	75	208	0.641	0.771	125
70	19X	2.1	10.5	1.4	13.3	181	87	268	0.443	0.533	160
95	19X	2.5	12.5	1.4	15.3	256	104	360	0.32	0.385	190
120	19X	2.14	14	1.6	17.2	322	126	448	0.253	0.305	220

DUPLEX TWISTED CABLE

ABC - ALUMINIUM CONDUCTORS - XLPE INSULATED

SIZE MM2	DIMENSIONS					WEIGHTS		Total weight approx
	no. of wires	wire diameter Φ	conductor diameter Φ	insulation thickness	Overall diameter	ALU H14	insulationXLPE	
mm2	NO	mm	mm	mm	mm	kg/km	kg/km	kg/km
2*16	7	1.7	5.1	1.3	15	89	55	144
2*35	7	2.5	7.5	1.3	20	193	78	271
2*50	19	1.82	9	1.5	24	278	100	377
2*70	19	2.1	10.5	1.5	27	370	115	484
2*95	19	2.5	12.5	1.5	31	524	135	659

TREPLEX TWISTED CABLE

ABC -ALUMINIUM CONDUCTORS -XLPE INSULATED

SIZE MM2	DIMENTIONS					WEIGHTS		Total weight approx
	no. of wires	wire diameter Φ	conductor diameter Φ	insulation thickness	Overall diameter	ALU H14	insulationXLPE	
mm2	NO	mm	mm	mm	mm	kg/km	kg/km	kg/km
3*16	7	1.7	5.1	1.3	17	134	86	220
3*25	7	2.18	7.5	1.3	22	220	118	338
3*50	7	3	9	1.5	26	417	165	582
3*70	19	2.1	10.5	1.5	29	554	177	731
3*95	19	2.5	12.5	1.5	33	786	207	993

QUADRAPLEX TWISTED CABLE

ABC -ALUMINIUM CONDUCTORS -XLPE INSULATED

SIZE MM2	DIMENSIONS					WEIGHTS		Total weight approx
	no. of wires	wire diameter Φ	conductor diameter Φ	insulation thickness	Overall diameter	ALU H14	insulationXLPE	
mm2	NO	mm	mm	mm	mm	kg/km	kg/km	kg/km
4*16	7	1.7	5.1	1.3	19	178	113	292
4*25	7	2.18	7.5	1.3	24	293	155	449
4*50	7	3	9	1.5	29	556	218	774
4*70	19	2.1	10.5	1.5	33	739	234	973
4*95	19	2.5	12.5	1.5	37	1047	274	1322

TWISTED CABLES

ABC -ALUMINIUM CONDUCTORS -XLPE INSULATED

SIZE mm2	DIMENTIONS							WEIGHT			Total weight approx
	phase alu cond	Neutral alu alloy cond messenger	conductor diameter Φ		insulation thickness		Overall diameterΦ	alu cond diameter Φ	alu alloy AAAC	XLPE insulation	
			phase AAC	neutral AAAC	phase AAC	neutral AAAC					
mm2	no. of wires XΦ	no. of wires XΦ	mm	mm	mm	mm	mm	kg/km	kg/km	kg/km	kg/km
1×16+16	7×1.72	7×1.7	4.8	5.1	1.2	1.2	14.7	43	44	46	133
2*16+16	7×1.72	7×1.7	4.8	5.1	1.2	1.2	16.9	86	44	68	198
3*16+16	7×1.72	7×1.7	4.8	5.1	1.2	1.2	18.3	129	44	90	263
1×35+35	7*2.52	7×2.5	7.0	7.5	1.6	1.6	20.9	43	94.0	88	225
2×35+35	7*2.52	7×2.5	7.0	7.5	1.6	1.6	31.1	86	94.0	130	310
3×35+35	7*2.52	7×2.5	7.0	7.5	1.6	1.6	31.1	129	94.0	173	396
1×50+50	19×1.8	7×3	8.3	9	1.6	1.6	23.7	138	135	104	377
3×50+50	19×1.8	7×3	8.3	9	1.6	1.6	35.2	413	135	204	752
3×70+50	19×2.15	7×3	10.1	9	1.8	1.6	39.6	550	135	257	942

ABC -ALUMINIUM TWISTED CABLE -XLPE INSULATED						
SIZE mm2	DIMENTIONS					
	phase alu conductors	light alu conductor	neutral alu alloy condu(messenger) ctor	conductor diameterΦ		
				phase AAC	light AAC	neutral AAAC
mm2	mm2	mm2	mm2	mm	mm	kg/km
3×25+54.6+16	7*2.16	7*1.72	7*3.15	6.0	4.8	9.45
3×35+54.6+16	7*2.52	7*1.72	7*3.15	7.0	4.8	9.45
3×70+54.6+16	19*2.15	7*1.72	7*3.15	10.1	4.8	9.45
3×120+70+16	19*2.15	7*1.72	7*3.15	10.1	4.8	9.45
3×150+70+16	19*3.27	7*1.72	19*2.1	14.3	4.8	10.5
3×120+70+16	19*2.15	7*1.72	7*3.15	10.1	4.8	9.45
3×150+70+16	19*3.27	7*1.72	19*2.1	14.3	4.8	10.5

ABC -ALUMINIUM TWISTED CABLE -XLPE INSULATED								
SIZE MM2	WEIGHT							Total weight approx
	insulation thickness			Overall diameter	alu conductorsAAC	alu alloy AAAC	XLPE insulation	
	phase	light	neutral					
mm2	mm	mm	mm	mm	kg/km	kg/km	kg/km	kg/km
3×25+54.6+16	1.4	1.2	1.6	30	245	150.4	173	569
3×35+54.6+16	1.6	1.2	1.6	33	318	150.4	205	673
3×70+54.6+16	1.8	1.2	1.6	40	593	150.4	299	1042
3×120+70+16	1.8	1.2	1.6	40	593	150.4	299	1042
3×150+70+16	1.8	1.2	1.6	50	1248	181.0	374	1803
3×120+70+16	1.8	1.2	1.6	40	593	150.4	299	1042
3×150+70+16	1.8	1.2	1.6	50	1249	181.0	374	1804