



1 Core CU/PVC 450/750V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/15min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 25°C (Amp)	Current rating based on enclosed in conduit on a wall/in trunking at 25°C (Amp)	Volt drop for 3 phase (V/A/km)
1.5	3.0	21	2.5	12.1	19	16	25.15
2.5	3.6	33	2.5	7.41	26	22	15.4
4	4.2	49	2.5	4.61	34	29	9.58
6	4.7	68	2.5	3.08	44	37	6.40
10	6.1	114	2.5	1.83	61	52	3.81
16	6.7	173	2.5	1.15	81	70	2.39
25	8.4	271	2.5	0.727	107	92	1.52
35	9.5	351	2.5	0.524	133	113	1.10
50	11.1	475	2.5	0.387	172	138	0.82
70	12.8	669	2.5	0.268	220	176	0.57
95	14.9	926	2.5	0.193	269	213	0.42
120	16.4	1153	2.5	0.153	312	246	0.35
150	18.3	1424	2.5	0.124	359	270	0.29
185	20.4	1781	2.5	0.0991	412	305	0.25
240	23.2	2331	2.5	0.0754	486	356	0.21
300	25.9	2916	2.5	0.0601	561	406	0.19
400	29.1	3714	2.5	0.0470	653	481	0.17
500	32.4	4744	2.5	0.0366	745	549	0.16
630	36.0	6069	2.5	0.0283	851	629	0.15
800	40.5	7741	2.5	0.0221	971	703	0.14

1 Core CU/PVC/PVC 300/500V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/15min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 25°C (Amp)	Current rating based on enclosed in conduit on a wall/in trunking at 25°C (Amp)	Volt drop for 3 phase (V/A/km)
1.5	4.6	36	2.0	12.1	16	14	25.15
2.5	5.2	50	2.0	7.41	23	19	15.4
4	6.0	71	2.0	4.61	30	25	9.58
6	6.5	94	2.0	3.08	39	32	6.40
10	7.9	147	2.0	1.83	53	43	3.81
16	9.1	216	2.0	1.15	71	57	2.40
25	11.0	330	2.0	0.727	94	75	1.52
35	12.3	423	2.0	0.524	116	91	1.10

1 Core CU/PVC/PVC 600/1000V

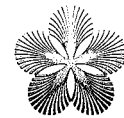
Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on a perforated cable tray horizontal/vertical at 25°C (Amp)	Current rating based on laid in air in trefoil at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
50	13.6	553	3.5	0.387	177	145	0.82
70	15.0	754	3.5	0.268	230	188	0.57
95	17.2	1030	3.5	0.193	281	230	0.42
120	18.6	1266	3.5	0.153	328	268	0.35
150	20.6	1558	3.5	0.124	380	310	0.29
185	22.7	1937	3.5	0.0991	437	356	0.25
240	25.5	2515	3.5	0.0754	519	422	0.21
300	28.1	3130	3.5	0.0601	602	488	0.19
400	31.8	3976	3.5	0.0470	699	571	0.17
500	35.0	5044	3.5	0.0366	801	652	0.16
630	38.3	6411	3.5	0.0283	919	744	0.15
800	42.1	8096	3.5	0.0221	1051	845	0.14

2 Core CU/PVC/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Shaped	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on a perforated cable tray / free air at 30°C (Amp)	Volt drop for single phase a.c (V/A/km)
1.5	CC	11.4	184	3.5	12.1	19.5	22	29
2.5	CC	12.2	225	3.5	7.41	27	30	18
4	CC	14.1	308	3.5	4.61	36	40	11
6	CC	15.2	380	3.5	3.08	46	51	7.3
10	CC	17.1	514	3.5	1.83	63	70	4.4
16	CC	19.2	679	3.5	1.15	85	94	2.8
25	CC	22.6	997	3.5	0.727	112	119	1.75
35	SC	20.8	969	3.5	0.524	138	148	1.25
50	SC	23.8	1269	3.5	0.387	168	180	0.94
70	SC	26.2	1698	3.5	0.268	213	232	0.65
95	SC	29.7	2285	3.5	0.193	258	282	0.50
120	SC	32.2	2806	3.5	0.153	299	328	0.41
150	SC	35.6	3420	3.5	0.124	344	379	0.34
185	SC	39.1	4233	3.5	0.0991	392	434	0.29
240	SC	43.8	5480	3.5	0.0754	461	514	0.24
300	SC	48.2	6784	3.5	0.0601	530	593	0.21
400	SC	54.4	8584	3.5	0.0470	634	715	0.185

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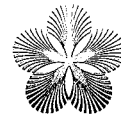


Olympic Cable

1 Core CU/XLPE/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on laid in air trefoil at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
1.5	5.8	47	3.5	12.1	23	-	26.83
2.5	6.2	59	3.5	7.41	31	-	16.43
4	6.8	77	3.5	4.61	41	-	10.22
6	7.3	100	3.5	3.08	54	-	6.83
10	8.3	144	3.5	1.83	74	-	4.06
16	8.9	204	3.5	1.15	99	-	2.55
25	10.6	305	3.5	0.727	130	126	1.61
35	11.7	394	3.5	0.524	161	156	1.17
50	13.1	517	3.5	0.387	209	190	0.87
70	15.0	721	3.5	0.268	268	246	0.61
95	16.9	977	3.5	0.193	326	300	0.45
120	18.6	1215	3.5	0.153	379	350	0.37
150	20.7	1497	3.5	0.124	436	405	0.31
185	23.0	1867	3.5	0.0991	500	465	0.26
240	25.8	2424	3.5	0.0754	590	551	0.22
300	28.5	3016	3.5	0.0601	681	638	0.19
400	31.9	3831	3.5	0.0470	793	746	0.17
500	35.4	4880	3.5	0.0366	904	852	0.16
630	39.6	6261	3.5	0.0283	1033	973	0.15
800	44.3	7982	3.5	0.0221	1179	1105	0.145
1000	48.7	9980	3.5	0.0176	1323	1228	0.14

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Olympic Cable

1 Core CU/PVC/AWA/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on laid in air trefoil at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
16	15.9	432	3.5	1.15	84	79	2.39
25	17.4	566	3.5	0.727	117	107	1.51
35	18.5	668	3.5	0.524	145	134	1.09
50	20.2	836	3.5	0.387	179	157	0.82
70	21.6	1057	3.5	0.268	225	201	0.57
95	23.9	1385	3.5	0.193	269	244	0.42
120	25.3	1649	3.5	0.153	309	282	0.35
150	27.1	1963	3.5	0.124	320	339	0.29
185	29.2	2374	3.5	0.0991	399	370	0.24
240	32.0	3003	3.5	0.0754	465	436	0.21
300	35.3	3738	3.5	0.0601	515	493	0.18
400	39.4	4685	3.5	0.0470	575	572	0.16
500	42.6	5822	3.5	0.0366	622	636	0.15
630	47.0	7421	3.5	0.0283	669	704	0.14

2 Core CU/PVC/SWA/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Shaped	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on a perforated cable tray / free air at 30°C (Amp)	Volt drop for single phase a.c (V/A/km)
1.5	CC	15.5	423	3.5	12.1	21	22	29
2.5	CC	16.3	483	3.5	7.41	28	31	18
4	CC	18.9	707	3.5	4.61	38	41	11
6	CC	20.0	818	3.5	3.08	49	53	7.3
10	CC	21.9	998	3.5	1.83	67	72	4.4
16	CC	24.7	1358	3.5	1.15	89	97	2.8
25	CC	28.3	1800	3.5	0.727	118	128	1.75
35	SC	26.3	1716	3.5	0.524	145	157	1.25
50	SC	29.5	2125	3.5	0.387	175	190	0.94
70	SC	32.1	2664	3.5	0.268	222	241	0.65
95	SC	36.4	3611	3.5	0.193	269	291	0.50
120	SC	39.3	4288	3.5	0.153	310	336	0.41
150	SC	42.7	5048	3.5	0.124	356	386	0.34
185	SC	47.4	6446	3.5	0.0991	405	439	0.29
240	SC	52.3	7983	3.5	0.0754	476	516	0.24
300	SC	56.9	9543	3.5	0.0601	547	592	0.21
400	SC	63.5	11736	3.5	0.0470	621	683	0.185

CC : COMPACTED CIRCULAR STRANDED

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3 Core CU/XLPE/SWA/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Shaped	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on a perforated cable tray / free air at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
16	CC	24.5	1465	3.5	1.15	99	90	2.55
25	CC	28.5	1988	3.5	0.727	124	119	1.61
35	SC	27.9	2084	3.5	0.524	154	147	1.16
50	SC	31.3	2601	3.5	0.387	187	179	0.87
70	SC	35.7	3601	3.5	0.268	238	228	0.61
95	SC	39.5	4599	3.5	0.193	289	277	0.45
120	SC	42.9	5518	3.5	0.153	335	321	0.36
150	SC	48.1	6998	3.5	0.124	386	369	0.30
185	SC	52.8	8450	3.5	0.0991	441	421	0.25
240	SC	57.8	10457	3.5	0.0754	520	497	0.21
300	SC	63.2	12653	3.5	0.0601	599	571	0.18
400	SC	70.5	15618	3.5	0.0470	673	662	0.16

4 Core CU/XLPE/SWA/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Shaped	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 30°C (Amp)	Current rating based on a perforated cable tray / free air at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
16	CC	26.2	1490	3.5	1.15	94	90	2.55
25	CC	30.6	1951	3.5	0.727	124	119	1.61
35	SC	30.7	2395	3.5	0.524	154	147	1.16
50	SC	35.4	3252	3.5	0.387	187	179	0.87
70	SC	39.9	4285	3.5	0.268	238	228	0.61
95	SC	44.0	5467	3.5	0.193	289	277	0.45
120	SC	49.2	7048	3.5	0.153	335	321	0.36
150	SC	54.0	8442	3.5	0.124	386	369	0.30
185	SC	59.0	10136	3.5	0.0991	441	421	0.25
240	SC	65.2	12720	3.5	0.0754	520	497	0.21
300	SC	70.9	15405	3.5	0.0601	599	571	0.18
400	SC	81.3	20193	3.5	0.0470	673	662	0.16

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**(A) CU and AL Conversion Table For 2 Core CU/XLPE/SWA/PVC 1KV
and AL/XLPE/SCT/PE 1KV Cables**

Nominal cross-sectional area	Cu conductor current rating	Voltage drop CU conductor	Voltage drop AL conductor	Equivalent current rating of AL conductor	Nominal cross-sectional area
For CU	(Amp)	(V/A/km)	(V/A/km)	(Amp)	For AL
10mm ²	85	4.7	4.90	84	16mm ²
16mm ²	110	2.9	3.09	101	25mm ²
25mm ²	146	1.9	1.65	154	50mm ²
35mm ²	180	1.35	1.15	198	50mm ²
50mm ²	219	1.00	0.84	241	70mm ²
70mm ²	279	0.69	0.67	281	120mm ²
95mm ²	338	0.52	0.56	325	150mm ²
120mm ²	392	0.42	0.45	371	185mm ²
150mm ²	451	0.35	0.36	436	240mm ²
185mm ²	515	0.29	0.31	500	300mm ²
240mm ²	607	0.24	0.26	604	400mm ²

**(B) CU and AL Conversion Table For 4 Core CU/XLPE/SWA/PVC 1KV
and AL/XLPE/SCT/PE 1KV Cables**

10mm ²	73	4.0	4.2	76	16mm ²
16mm ²	94	2.5	2.7	90	25mm ²
25mm ²	124	1.65	1.45	136	50mm ²
35mm ²	154	1.15	0.97	174	50mm ²
50mm ²	187	0.87	0.72	211	70mm ²
70mm ²	238	0.60	0.58	245	120mm ²
95mm ²	289	0.45	0.47	283	150mm ²
120mm ²	335	0.37	0.39	323	185mm ²
150mm ²	386	0.30	0.31	382	240mm ²
185mm ²	441	0.26	0.26	440	300mm ²
240mm ²	520	0.21	0.22	517	400mm ²
185mm ²	599	0.185	0.19	605	500mm ²
240mm ²	673	0.165	0.175	691	630mm ²

The continuous current carrying capacities are based on the following condition:

- (i) Ambient temp 30°C
- (ii) Max. continuous loading temp of conductor 90°C
- (iii) For Chart (A), Clipped direct, one 2 core cables, single phase a.c. or d.c.
- (iv) For Chart (B), Clipped direct, one 3 or 4 core cables, 3 phase a.c.



1 Core AL/PVC/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 25°C (Amp)	Current rating based on laid in air at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
16	9.3	127	3.5	1.91	61	53	3.97
25	10.8	179	3.5	1.20	75	68	2.50
35	11.9	204	3.5	0.868	93	83	1.81
50	13.6	265	3.5	0.641	127	111	1.34
70	15.0	338	3.5	0.443	164	144	0.94
95	17.2	452	3.5	0.320	200	177	0.68
120	18.6	538	3.5	0.253	233	206	0.55
150	20.6	658	3.5	0.206	269	238	0.45
185	22.7	812	3.5	0.164	308	275	0.37
240	25.5	1036	3.5	0.125	365	326	0.30
300	28.1	1271	3.5	0.100	422	378	0.26
400	31.8	1604	3.5	0.0778	486	441	0.22
500	35.0	2000	3.5	0.0605	562	513	0.19
630	38.3	2469	3.5	0.0469	645	592	0.18
800	42.1	3044	3.5	0.0367	730	675	0.16
1000	46.7	3786	3.5	0.0291	848	789	0.15

1 Core AL/XLPE/PVC 600/1000V

Nominal cross-sectional area (mm ²)	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on clipped direct at 25°C (Amp)	Current rating based on laid in air at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
16	8.7	105	3.5	1.91	80	-	4.25
25	10.2	150	3.5	1.20	97	-	2.67
35	11.3	177	3.5	0.868	124	-	1.93
50	12.8	226	3.5	0.641	152	145	1.43
70	14.4	300	3.5	0.443	193	187	1.00
95	16.2	392	3.5	0.320	239	230	0.73
120	17.8	478	3.5	0.253	279	269	0.58
150	19.8	587	3.5	0.206	320	312	0.48
185	21.7	718	3.5	0.164	373	359	0.39
240	24.3	915	3.5	0.125	447	429	0.31
300	26.7	1121	3.5	0.100	517	495	0.26
400	30.4	1425	3.5	0.0778	606	581	0.22
500	33.6	1794	3.5	0.0605	706	676	0.19
630	37.5	2283	3.5	0.0469	807	773	0.17
800	41.7	2864	3.5	0.0367	929	891	0.16
1000	46.1	3552	3.5	0.0291	1093	1047	0.15



Olympic Cable

4 core AL/XLPE/SCT/PE 600/1000V (IEC SPEC)

Nominal cross-sectional area (mm ²)	Shaped	Approx. Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Test Voltage (kV/5min)	Max. conductor DC resistance at 20°C (Ω/km)	Current rating based on laid in ground at 25°C (Amp)	Current rating based on laid in air at 40°C (Amp)	Volt drop for 3 phase (V/A/km)
25	SC	23.9	636	3.5	1.20	100	89	2.67
35	SC	26.3	756	3.5	0.868	120	110	1.93
50	SC	30.1	964	3.5	0.641	150	135	1.43
70	SC	34.8	1315	3.5	0.443	180	170	0.99
95	SC	38.6	1689	3.5	0.320	210	205	0.72
120	SC	42.9	2085	3.5	0.253	240	240	0.58
150	SC	47.7	2534	3.5	0.206	275	280	0.48
185	SC	50.6	3096	3.5	0.164	310	320	0.39
240	SC	58.9	4007	3.5	0.125	360	380	0.31
300	SC	64.4	4853	3.5	0.100	415	440	0.26
400	SC	73.4	6200	3.5	0.0778	480	525	0.21

4 core AL/XLPE/SCT/PE 600/1000V (IEC SPEC)

25	SC	24.2	733	3.5	1.20	100	89	2.67
35	SC	26.6	869	3.5	0.868	120	110	1.93
50	SC	30.3	1098	3.5	0.641	150	135	1.43
70	SC	35.0	1477	3.5	0.443	180	170	0.99
95	SC	38.9	1881	3.5	0.320	210	205	0.72
120	SC	43.1	2307	3.5	0.253	240	240	0.58
150	SC	47.9	2787	3.5	0.206	275	280	0.48
185	SC	50.8	3379	3.5	0.164	310	320	0.39
240	SC	59.1	4355	3.5	0.125	360	380	0.31
300	SC	64.8	5289	3.5	0.100	415	440	0.26
400	SC	73.7	6680	3.5	0.0778	480	525	0.21

SC : SECTORAL STRANDED COMPACTED