

MEDIUM VOLTAGE CABLES

Rated Voltages from 3.6/6 (7.2) kV to 18/30 (36) kV



CONSTRUCTION DETAILS:

1. Conductor:

Circular, stranded and compacted Copper or Aluminium conductors as per IEC 60228 – class 2.

2. Conductor Screen:

An extruded layer of semi-conducting compound applied over the conductor surface.

3. Insulation:

An extruded layer of Cross Linked Polyethylene (XLPE) with maximum operating temperature 90 °C.

4. Insulation Screen:

- An extruded layer of semi-conducting compound over the insulation
- Insulation screen maybe bonded or strippable

5. Metallic Screen:

Consists of one or more Copper tapes, or a concentric layer of wires or a combination of Copper wires and tape(s).

6. Assembly:

For multi core cables, cores shall be assembled together, the spaces filled with non-hygroscopic filler suitable for the cable's operating temperature then using suitable binder tape over the assembly of laid-up cores.

7. Bedding:

In case of armoured cables an extruded layer of PVC or PE is applied as bedding as per IEC 60502-2.

8. Armouring:

- Tape Armouring: double layer of Aluminium tapes in case of single core cables or steel tapes in case of three core cables are applied helically.
- Wire Armouring: Aluminium wires in case of single core cables or galvanized steel wires in case of three core cables.

9. Sheath:

An extruded layer of PVC or PE is applied with thickness as specified in IEC 60502-2.

• Applicable Standards:

Medium voltage power cables are designed according to IEC 60502-2, BS 6622 and BS 7835 standard.

Applications:

- Suitable for installations indoor mostly in power stations and outdoor in cable ducts, underground, and cable trays for industries, switch-boards, and power stations.
- These cables also used in urban areas where overhead cables cannot be used due to safety and environmental reasons.

Note:

- Longitudinal watertightness can be achieved by using swelling tapes and / or swelling powder in conductor region and / or screen region.
- Transversal watertightness can be achieved by using laminated Aluminium foil or lead sheath.

MEDIUM VOLTAGE CABLES

6/10 (12) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _o	 ≥ 0.5D _o		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.377	0.415	0.255	237	242	193	239	244	23.6	960
70	0.268	0.342	0.355	0.394	0.295	292	298	239	301	308	25.6	1185
95	0.193	0.247	0.339	0.378	0.328	354	355	286	366	375	27.2	1460
120	0.153	0.196	0.331	0.369	0.350	400	401	325	418	428	28.1	1690
150	0.124	0.159	0.318	0.358	0.384	442	449	369	477	487	29.9	2075
185	0.0991	0.1279	0.308	0.349	0.418	498	505	414	545	555	31.7	2445
240	0.0754	0.0984	0.295	0.336	0.468	577	584	483	645	654	34.3	3020
300	0.0601	0.0795	0.287	0.327	0.516	648	653	544	737	743	36.7	3675
400	0.0470	0.0637	0.279	0.319	0.573	731	733	619	849	848	39.7	4595
500	0.0366	0.0518	0.266	0.307	0.661	830	830	711	993	989	44.2	5670
630	0.0283	0.0424	0.262	0.302	0.727	928	924	799	1130	1118	47.4	7005
800	0.0221	0.0359	0.254	0.295	0.813	1025	1017	890	1277	1257	51.6	8790
1000	0.0176	0.0312	0.247	0.290	0.903	1118	1106	974	1432	1404	55.5	10740

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _s	 ≥ 0.5D _s		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.377	0.415	0.255	184	188	149	185	190	23.6	675
70	0.443	0.568	0.355	0.394	0.295	227	231	185	234	240	25.6	775
95	0.320	0.411	0.339	0.378	0.328	275	275	222	284	291	27.2	885
120	0.253	0.325	0.331	0.369	0.350	311	312	252	325	333	28.1	980
150	0.206	0.265	0.318	0.358	0.384	343	349	287	370	379	29.9	1175
185	0.164	0.211	0.308	0.349	0.418	389	395	323	425	435	31.7	1335
240	0.125	0.162	0.295	0.336	0.468	452	458	378	504	515	34.3	1555
300	0.100	0.130	0.287	0.327	0.516	510	515	428	579	589	36.7	1825
400	0.0778	0.1021	0.279	0.319	0.573	582	587	493	675	682	39.7	2200
500	0.0605	0.0806	0.266	0.307	0.661	670	674	573	800	806	44.2	2640
630	0.0469	0.0643	0.262	0.302	0.727	761	763	656	926	928	47.4	3140
800	0.0367	0.0525	0.254	0.295	0.813	858	859	746	1069	1066	51.6	3760
1000	0.0291	0.0438	0.247	0.290	0.903	960	957	835	1228	1220	55.7	4460



MEDIUM VOLTAGE CABLES

6/10 (12) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.351	0.255	221	175	210	42.8	2805
70	0.268	0.342	0.328	0.295	281	217	276	47.3	3525
95	0.193	0.247	0.315	0.328	337	259	334	51	4455
120	0.153	0.196	0.306	0.350	380	294	381	53.1	5180
150	0.124	0.159	0.296	0.384	428	332	434	57.1	6250
185	0.0991	0.1281	0.288	0.418	483	376	495	60.6	7500
240	0.0754	0.0987	0.276	0.468	559	437	582	65.9	9195
300	0.0601	0.0799	0.269	0.516	629	496	664	71.2	11245
400	0.0470	0.0642	0.261	0.573	715	562	766	77.3	13960
500	0.0366	0.0522	0.252	0.661	775	640	833	87	17165

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.351	0.255	171	136	163	42.8	1945
70	0.443	0.568	0.328	0.295	218	168	214	47.3	2280
95	0.320	0.411	0.315	0.328	261	201	259	51	2730
120	0.253	0.325	0.306	0.350	295	229	296	53.1	3045
150	0.206	0.265	0.296	0.384	332	256	336	57.1	3540
185	0.164	0.211	0.288	0.418	376	293	385	60.6	4150
240	0.125	0.162	0.276	0.468	436	342	454	65.9	4795
300	0.100	0.130	0.269	0.516	493	389	521	71.2	5685
400	0.0778	0.1025	0.261	0.573	567	446	607	77.3	6750
500	0.0605	0.0812	0.252	0.661	624	515	671	87	8050



MEDIUM VOLTAGE CABLES

6/10 (12) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Tape Armoured and PVC Sheathed

CU/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.400	0.437	0.255	235	240	197	244	248	27.6	1225
70	0.268	0.342	0.416	0.374	0.295	288	293	242	306	311	29.6	1470
95	0.193	0.247	0.359	0.398	0.328	343	347	289	370	374	31.4	1770
120	0.153	0.196	0.352	0.391	0.350	388	393	327	422	428	32.3	2015
150	0.124	0.159	0.338	0.377	0.384	434	438	366	478	481	34.1	2420
185	0.0991	0.1278	0.328	0.368	0.418	489	493	411	546	547	36.1	2825
240	0.0754	0.0980	0.317	0.356	0.468	564	567	475	641	639	38.7	3430
300	0.0601	0.0792	0.308	0.347	0.516	652	631	530	729	720	41.1	4110
400	0.0470	0.0634	0.298	0.338	0.573	711	706	596	836	815	44.1	5065
500	0.0366	0.0512	0.284	0.324	0.661	805	796	671	970	940	49	6240
630	0.0283	0.0419	0.278	0.319	0.727	896	881	741	1099	1053	52.2	7610
800	0.0221	0.0350	0.271	0.313	0.813	989	967	810	1236	1174	57	9525
1000	0.0176	0.0301	0.263	0.305	0.903	1079	1049	870	1381	1302	60.9	11530

AL/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 $\geq 0.5D_e$	 $\geq 0.5D_e$		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.400	0.437	0.255	182	186	153	189	193	27.6	940
70	0.443	0.568	0.416	0.374	0.295	224	228	188	238	243	29.6	1055
95	0.320	0.411	0.359	0.398	0.328	267	271	225	288	293	31.4	1200
120	0.253	0.325	0.352	0.391	0.350	303	307	255	329	335	32.3	1305
150	0.206	0.265	0.338	0.377	0.384	338	343	287	373	379	34.1	1520
185	0.164	0.211	0.328	0.368	0.418	383	388	324	427	432	36.1	1715
240	0.125	0.162	0.317	0.356	0.468	444	448	376	504	508	38.7	1965
300	0.100	0.130	0.308	0.347	0.516	509	503	422	576	577	41.1	2265
400	0.0778	0.1020	0.298	0.338	0.573	569	571	483	668	663	44.1	2670
500	0.0605	0.0805	0.284	0.324	0.661	652	652	554	785	776	49	3210
630	0.0469	0.0639	0.278	0.319	0.727	739	735	622	904	885	52.2	3745
800	0.0367	0.0520	0.271	0.313	0.813	831	823	697	1037	1007	57	4500
1000	0.0291	0.0422	0.263	0.305	0.903	928	914	766	1186	1143	61.1	5255



MEDIUM VOLTAGE CABLES

6/10 (12) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CU/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.351	0.255	221	177	213	47.8	3920
70	0.268	0.342	0.328	0.295	273	219	269	52.4	4745
95	0.193	0.247	0.315	0.328	326	263	326	56.4	5815
120	0.153	0.196	0.306	0.350	368	297	370	58.7	6710
150	0.124	0.159	0.296	0.384	413	334	420	62.7	7875
185	0.0991	0.1281	0.288	0.418	465	396	477	66.2	9120
240	0.0754	0.0987	0.276	0.468	537	438	558	71.9	11015
300	0.0601	0.0799	0.269	0.516	603	493	635	77.2	13195
400	0.0470	0.0642	0.261	0.573	680	559	726	83.6	16200
500	0.0366	0.0522	0.252	0.661	757	628	825	93.6	19830

AL/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.351	0.255	171	137	165	47.8	3060
70	0.443	0.568	0.328	0.295	212	170	209	52.4	3500
95	0.320	0.411	0.315	0.328	253	204	253	56.4	4090
120	0.253	0.325	0.306	0.350	287	231	288	58.7	4575
150	0.206	0.265	0.296	0.384	321	259	327	62.7	5170
185	0.164	0.211	0.288	0.418	363	294	373	66.2	5770
240	0.125	0.162	0.276	0.468	422	345	439	71.9	6615
300	0.100	0.130	0.269	0.516	477	391	502	77.2	7635
400	0.0778	0.1025	0.261	0.573	546	449	583	83.6	8990
500	0.0605	0.0812	0.252	0.661	621	515	675	93.6	10710



MEDIUM VOLTAGE CABLES

6/10 (12) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Wire Armoured and PVC Sheathed

CU/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.437	0.475	0.255	236	240	197	247	249	28.8	1350
70	0.268	0.342	0.408	0.446	0.295	289	292	242	308	309	30.8	1610
95	0.193	0.247	0.386	0.425	0.328	344	347	289	372	373	32.6	1920
120	0.153	0.196	0.385	0.423	0.350	385	387	325	423	419	33.5	2165
150	0.124	0.159	0.375	0.414	0.384	430	430	364	479	470	36.1	2670
185	0.0991	0.1277	0.364	0.403	0.418	478	476	406	541	525	38.3	3110
240	0.0754	0.0980	0.348	0.387	0.468	546	540	467	629	601	40.9	3730
300	0.0601	0.0791	0.336	0.375	0.516	602	592	516	706	664	43.1	4410
400	0.0470	0.0631	0.324	0.364	0.573	657	646	568	793	733	46.1	5385
500	0.0366	0.0511	0.315	0.354	0.661	724	708	631	897	816	52.2	6780
630	0.0283	0.0417	0.305	0.346	0.727	783	764	684	990	887	55.4	8190
800	0.0221	0.0350	0.297	0.338	0.813	838	816	740	1084	958	60.2	10155
1000	0.0176	0.0305	0.290	0.330	0.903	884	861	783	1167	1021	64.3	12235

AL/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.437	0.475	0.255	184	187	154	192	195	28.8	1065
70	0.443	0.568	0.408	0.446	0.295	226	229	189	240	243	30.8	1195
95	0.320	0.411	0.386	0.425	0.328	269	272	226	291	294	32.6	1345
120	0.253	0.325	0.385	0.423	0.350	303	306	256	333	334	33.5	1455
150	0.206	0.265	0.375	0.414	0.384	339	341	287	377	376	36.1	1770
185	0.164	0.211	0.364	0.403	0.418	380	382	323	429	425	38.3	1995
240	0.125	0.161	0.348	0.387	0.468	437	437	374	502	492	40.9	2270
300	0.100	0.130	0.336	0.375	0.516	487	485	418	569	551	43.1	2565
400	0.0778	0.1019	0.324	0.364	0.573	543	504	470	652	622	46.1	2990
500	0.0605	0.0804	0.315	0.354	0.661	610	604	532	752	708	52.2	3750
630	0.0469	0.0639	0.305	0.346	0.727	674	665	590	848	785	55.4	4325
800	0.0367	0.0518	0.297	0.338	0.813	738	726	652	949	866	60.2	5130
1000	0.0291	0.0424	0.290	0.331	0.903	796	782	706	1044	941	64.5	5960



MEDIUM VOLTAGE CABLES

6/10 (12) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CU/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.351	0.255	223	180	218	51	5225
70	0.268	0.342	0.328	0.295	273	220	270	55.6	6180
95	0.193	0.247	0.315	0.328	326	264	327	59.6	7375
120	0.153	0.196	0.306	0.350	367	298	371	61.9	8235
150	0.124	0.159	0.296	0.384	411	334	420	65.9	9520
185	0.0991	0.1281	0.288	0.418	458	376	474	69.4	10960
240	0.0754	0.0987	0.276	0.468	526	433	552	76.8	13950
300	0.0601	0.0799	0.269	0.516	585	482	623	81.9	16310
400	0.0470	0.0642	0.261	0.573	651	538	703	88.1	19445
500	0.0366	0.0522	0.252	0.661	717	597	792	97.9	23445

AL/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.351	0.255	173	139	169	51	4365
70	0.443	0.568	0.328	0.295	212	171	210	55.6	4935
95	0.320	0.411	0.315	0.328	254	206	254	59.6	5650
120	0.253	0.325	0.306	0.350	287	233	290	61.9	6100
150	0.206	0.265	0.296	0.384	322	262	328	65.9	6810
185	0.164	0.211	0.288	0.418	361	297	373	69.4	7615
240	0.125	0.162	0.276	0.468	418	344	438	76.8	9555
300	0.100	0.130	0.269	0.516	469	387	498	81.9	10755
400	0.0778	0.1025	0.261	0.573	531	439	572	88.1	12235
500	0.0605	0.0812	0.252	0.661	599	499	659	97.9	14330



MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.400	0.438	0.202	237	242	193	239	244	25.6	1025
70	0.268	0.342	0.376	0.415	0.234	292	298	239	301	308	27.8	1280
95	0.193	0.247	0.359	0.398	0.259	354	355	286	366	375	29.6	1560
120	0.153	0.196	0.349	0.388	0.273	400	401	325	418	428	30.7	1810
150	0.124	0.159	0.336	0.376	0.299	442	449	369	477	487	32.5	2215
185	0.0991	0.1278	0.325	0.365	0.324	498	505	414	545	555	34.1	2565
240	0.0754	0.0982	0.310	0.351	0.361	577	584	483	645	654	36.5	3140
300	0.0601	0.0793	0.301	0.341	0.396	648	653	544	737	743	38.9	3800
400	0.0470	0.0634	0.291	0.331	0.438	731	733	619	849	848	41.9	4730
500	0.0366	0.0514	0.278	0.319	0.506	830	830	711	993	989	46.4	5815
630	0.0283	0.0420	0.272	0.312	0.553	928	924	799	1130	1118	49.8	7190
800	0.0221	0.0355	0.264	0.305	0.615	1025	1017	890	1277	1257	54.2	9025
1000	0.0176	0.0309	0.257	0.299	0.672	1118	1106	974	1432	1404	58.3	11030



AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _s	 ≥ 0.5D _s		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.400	0.438	0.202	184	188	149	185	190	25.6	740
70	0.443	0.568	0.376	0.415	0.234	227	231	185	234	240	27.8	865
95	0.320	0.411	0.359	0.398	0.259	275	275	222	284	291	29.6	985
120	0.253	0.325	0.349	0.388	0.273	311	312	252	325	333	30.7	1100
150	0.206	0.265	0.336	0.376	0.299	343	349	287	370	379	32.5	1315
185	0.164	0.211	0.325	0.365	0.324	389	395	323	425	435	34.1	1450
240	0.125	0.162	0.310	0.351	0.361	452	458	378	504	515	36.5	1680
300	0.100	0.130	0.301	0.341	0.396	510	515	428	579	589	38.9	1955
400	0.0778	0.1019	0.291	0.331	0.438	582	587	493	675	682	41.9	2340
500	0.0605	0.0804	0.278	0.319	0.506	670	674	573	800	806	46.4	2790
630	0.0469	0.0641	0.272	0.312	0.553	761	763	656	926	928	49.8	3325
800	0.0367	0.0522	0.264	0.305	0.615	858	859	746	1069	1066	54.2	4000
1000	0.0291	0.0436	0.258	0.300	0.672	960	957	835	1228	1220	58.5	4745

MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.376	0.202	221	175	210	48.4	3165
70	0.268	0.342	0.351	0.234	281	217	276	52.9	3920
95	0.193	0.247	0.336	0.259	337	259	334	56.5	4880
120	0.153	0.196	0.326	0.273	380	294	381	58.7	5615
150	0.124	0.159	0.315	0.299	428	332	434	62.6	6730
185	0.0991	0.1280	0.306	0.324	483	376	495	66.2	8000
240	0.0754	0.0984	0.292	0.361	559	437	582	71.7	9765
300	0.0601	0.0796	0.284	0.396	629	496	664	76.8	11825
400	0.0470	0.0638	0.275	0.438	715	562	766	82.9	14590
500	0.0366	0.0518	0.264	0.506	775	640	833	92.4	17815

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.376	0.202	171	136	163	48.4	2310
70	0.443	0.568	0.351	0.234	218	168	214	52.9	2675
95	0.320	0.411	0.336	0.259	261	201	259	56.5	3155
120	0.253	0.325	0.326	0.273	295	229	296	58.7	3485
150	0.206	0.265	0.315	0.299	332	256	336	62.6	4020
185	0.164	0.211	0.306	0.324	376	293	385	66.2	4655
240	0.125	0.162	0.292	0.361	436	342	454	71.7	5365
300	0.100	0.130	0.284	0.396	493	389	521	76.8	6265
400	0.0778	0.1022	0.275	0.438	567	446	607	82.9	7380
500	0.0605	0.0809	0.264	0.506	624	515	671	92.4	8700



MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Tape Armoured and PVC Sheathed

CU/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.458	0.495	0.202	235	240	197	244	248	31.4	1415
70	0.268	0.342	0.467	0.425	0.234	288	293	242	306	311	33.4	1685
95	0.193	0.247	0.410	0.449	0.259	343	347	289	370	374	35.2	2000
120	0.153	0.196	0.399	0.437	0.273	388	393	327	422	428	36.1	2245
150	0.124	0.159	0.383	0.422	0.299	434	438	366	478	481	37.9	2675
185	0.0991	0.1275	0.370	0.409	0.324	489	493	411	546	547	39.5	3050
240	0.0754	0.0977	0.355	0.394	0.361	564	567	475	641	639	42.3	3710
300	0.0601	0.0787	0.343	0.383	0.396	652	631	530	729	720	44.9	4430
400	0.0470	0.0627	0.331	0.371	0.438	711	706	596	836	815	47.9	5405
500	0.0366	0.0504	0.316	0.356	0.506	805	796	671	970	940	52.4	6560
630	0.0283	0.0409	0.307	0.348	0.553	896	881	741	1099	1053	55.8	7980
800	0.0221	0.0341	0.298	0.339	0.615	989	967	810	1236	1174	60.2	9860
1000	0.0176	0.0294	0.292	0.332	0.672	1079	1049	870	1381	1302	64.3	11925

AL/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.458	0.495	0.202	182	186	153	189	193	31.4	1130
70	0.443	0.568	0.467	0.425	0.234	224	228	188	238	243	33.4	1270
95	0.320	0.411	0.410	0.449	0.259	267	271	225	288	293	35.2	1425
120	0.253	0.325	0.399	0.437	0.273	303	307	255	329	335	36.1	1535
150	0.206	0.265	0.383	0.422	0.299	338	343	287	373	379	37.9	1775
185	0.164	0.211	0.370	0.409	0.324	383	388	324	427	432	39.5	1935
240	0.125	0.161	0.355	0.394	0.361	444	448	376	504	508	42.3	2250
300	0.100	0.130	0.343	0.383	0.396	509	503	422	576	577	44.9	2585
400	0.0778	0.1015	0.331	0.371	0.438	569	571	483	668	663	47.9	3010
500	0.0605	0.0800	0.316	0.356	0.506	652	652	554	785	776	52.4	3530
630	0.0469	0.0633	0.307	0.348	0.553	739	735	622	904	885	55.8	4120
800	0.0367	0.0512	0.298	0.339	0.615	831	823	697	1037	1007	60.2	4830
1000	0.0291	0.0424	0.291	0.332	0.672	928	914	766	1186	1143	64.5	5650



MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CU/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.376	0.202	221	177	213	53.6	4400
70	0.268	0.342	0.351	0.234	273	219	269	58.3	5285
95	0.193	0.247	0.336	0.259	326	263	326	62	6330
120	0.153	0.196	0.326	0.273	368	297	370	64.1	7210
150	0.124	0.159	0.315	0.299	413	334	420	68.1	8410
185	0.0991	0.1280	0.306	0.324	465	396	477	72	9740
240	0.0754	0.0984	0.292	0.361	537	438	558	77.3	11595
300	0.0601	0.0796	0.284	0.396	603	493	635	82.4	13775
400	0.0470	0.0638	0.275	0.438	680	559	726	88.5	16780
500	0.0366	0.0518	0.264	0.506	757	628	825	98.4	20415

AL/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.376	0.202	171	137	165	53.6	3545
70	0.443	0.568	0.351	0.234	212	170	209	58.3	4040
95	0.320	0.411	0.336	0.259	253	204	253	62	4605
120	0.253	0.325	0.326	0.273	287	231	288	64.1	5075
150	0.206	0.265	0.315	0.299	321	259	327	68.1	5700
185	0.164	0.211	0.306	0.324	363	294	373	72	6395
240	0.125	0.162	0.292	0.361	422	345	439	77.3	7195
300	0.100	0.130	0.284	0.396	477	391	502	82.4	8215
400	0.0778	0.1022	0.275	0.438	546	449	583	88.5	9570
500	0.0605	0.0809	0.264	0.506	621	515	675	98.4	11295



MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Wire Armoured and PVC Sheathed

CU/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.455	0.493	0.202	236	240	197	247	249	31.4	1470
70	0.268	0.342	0.424	0.462	0.234	289	292	242	308	309	33.4	1740
95	0.193	0.247	0.405	0.444	0.259	344	347	289	372	373	35.2	2060
120	0.153	0.196	0.400	0.438	0.273	385	387	325	423	419	37.5	2450
150	0.124	0.159	0.384	0.423	0.299	430	430	364	479	470	39.1	2870
185	0.0991	0.1275	0.373	0.412	0.324	478	476	406	541	525	40.9	3275
240	0.0754	0.0977	0.355	0.394	0.361	546	540	467	629	601	43.3	3915
300	0.0601	0.0787	0.343	0.383	0.396	602	592	516	706	664	45.7	4625
400	0.0470	0.0626	0.337	0.377	0.438	657	646	568	793	733	50.1	5815
500	0.0366	0.0503	0.322	0.361	0.506	724	708	631	897	816	54.6	7005
630	0.0283	0.0407	0.313	0.353	0.553	783	764	684	990	887	58	8455
800	0.0221	0.0339	0.304	0.344	0.615	838	816	740	1084	958	62.6	10400
1000	0.0176	0.0292	0.296	0.337	0.672	884	861	783	1167	1021	66.7	12500

AL/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.455	0.493	0.202	184	187	154	192	195	31.4	1465
70	0.443	0.568	0.424	0.462	0.234	226	229	189	240	243	33.4	1740
95	0.320	0.411	0.405	0.444	0.259	269	272	226	291	294	35.2	2060
120	0.253	0.325	0.400	0.438	0.273	303	306	256	333	334	37.5	2450
150	0.206	0.265	0.384	0.423	0.299	339	341	287	377	376	39.1	2870
185	0.164	0.211	0.373	0.412	0.324	380	382	323	429	425	40.9	3275
240	0.125	0.161	0.355	0.394	0.361	437	437	374	502	492	43.3	3910
300	0.100	0.130	0.343	0.383	0.396	487	485	418	569	551	45.7	4620
400	0.0778	0.1015	0.337	0.377	0.438	543	504	470	652	622	50.1	5815
500	0.0605	0.0799	0.322	0.361	0.506	610	604	532	752	708	54.6	7000
630	0.0469	0.0632	0.313	0.353	0.553	674	665	590	848	785	58	8455
800	0.0367	0.0510	0.304	0.344	0.615	738	726	652	949	866	62.6	10400
1000	0.0291	0.0423	0.296	0.336	0.672	796	782	706	1044	941	66.9	12500



MEDIUM VOLTAGE CABLES

8.7/15 (17.5) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CU/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.376	0.202	223	180	218	56.8	5875
70	0.268	0.342	0.351	0.234	273	220	270	61.5	6900
95	0.193	0.247	0.336	0.259	326	264	327	65.2	8050
120	0.153	0.196	0.326	0.273	367	298	371	67.3	8895
150	0.124	0.159	0.315	0.299	411	334	420	71.3	10215
185	0.0991	0.1280	0.306	0.324	458	376	474	76.7	12650
240	0.0754	0.0984	0.292	0.361	526	433	552	82.2	14765
300	0.0601	0.0796	0.284	0.396	585	482	623	87.3	17160
400	0.0470	0.0638	0.275	0.438	651	538	703	93.6	20375
500	0.0366	0.0518	0.264	0.506	717	597	792	103.7	24490

AL/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.376	0.202	173	139	169	56.8	5015
70	0.443	0.568	0.351	0.234	212	171	210	61.5	5655
95	0.320	0.411	0.336	0.259	254	206	254	65.2	6320
120	0.253	0.325	0.326	0.273	287	233	290	67.3	6760
150	0.206	0.265	0.315	0.299	322	262	328	71.3	7505
185	0.164	0.211	0.306	0.324	361	297	373	76.7	9300
240	0.125	0.162	0.292	0.361	418	344	438	82.2	10365
300	0.100	0.130	0.284	0.396	469	387	498	87.3	11600
400	0.0778	0.1022	0.275	0.438	531	439	572	93.6	13165
500	0.0605	0.0809	0.264	0.506	599	499	659	103.7	15370



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.497	0.436	0.474	0.175	240	241	196	243	248	28.4	1145
70	0.268	0.342	0.416	0.454	0.202	295	296	242	304	311	30.6	1410
95	0.193	0.247	0.397	0.435	0.223	353	354	290	370	377	32.4	1705
120	0.153	0.196	0.379	0.418	0.234	400	402	328	421	431	33.5	1955
150	0.124	0.159	0.371	0.410	0.255	440	447	369	479	488	35.1	2350
185	0.0991	0.1276	0.360	0.399	0.276	496	504	418	549	558	36.9	2730
240	0.0754	0.0978	0.343	0.382	0.307	576	583	487	648	658	39.3	3310
300	0.0601	0.0789	0.332	0.371	0.335	648	653	551	741	747	41.7	3985
400	0.0470	0.0629	0.320	0.360	0.371	731	734	626	853	853	44.7	4930
500	0.0366	0.0506	0.305	0.346	0.426	831	831	717	997	993	49.2	6040
630	0.0283	0.0411	0.298	0.338	0.464	930	928	808	1136	1126	52.6	7425
800	0.0221	0.0346	0.285	0.326	0.515	1030	1025	901	1285	1269	56.6	9225
1000	0.0176	0.0301	0.273	0.314	0.584	1126	1116	986	1442	1419	60.5	11195

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.436	0.474	0.175	186	187	152	188	193	28.4	860
70	0.443	0.568	0.416	0.454	0.202	229	230	188	263	242	30.6	995
95	0.320	0.411	0.397	0.435	0.223	274	275	225	287	294	32.4	1135
120	0.253	0.325	0.379	0.418	0.234	311	312	255	328	336	33.5	1245
150	0.206	0.265	0.371	0.410	0.255	342	348	287	373	381	35.1	1450
185	0.164	0.211	0.360	0.399	0.276	387	394	326	428	437	36.9	1620
240	0.125	0.1613	0.343	0.382	0.307	450	457	381	507	517	39.3	1850
300	0.100	0.130	0.332	0.371	0.335	509	515	432	581	591	41.7	2140
400	0.0778	0.1016	0.320	0.360	0.371	581	587	497	678	685	44.7	2530
500	0.0605	0.0801	0.305	0.346	0.426	669	673	577	801	808	49.2	3010
630	0.0469	0.0635	0.298	0.338	0.464	761	764	661	928	931	52.6	3560
800	0.0367	0.0515	0.285	0.326	0.515	859	861	752	1071	1071	56.6	4195
1000	0.0291	0.0431	0.273	0.314	0.584	963	962	842	1232	1227	60.7	4910



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.396	0.175	227	182	221	54.4	3550
70	0.268	0.342	0.370	0.202	280	224	277	58.7	4310
95	0.193	0.247	0.352	0.223	335	269	336	62.5	5315
120	0.153	0.196	0.343	0.234	378	305	382	64.7	6010
150	0.124	0.159	0.330	0.255	425	344	434	68.6	7220
185	0.0991	0.1278	0.320	0.276	480	389	495	72.2	8445
240	0.0754	0.0982	0.306	0.307	556	454	582	77.6	10195
300	0.0601	0.0794	0.296	0.335	626	514	663	82.9	12445
400	0.0470	0.0635	0.287	0.371	712	586	765	89.3	15170
500	0.0366	0.0515	0.274	0.426	807	664	883	98.8	18580

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.396	0.175	176	141	172	54.4	2700
70	0.443	0.568	0.370	0.202	217	174	215	58.7	3060
95	0.320	0.411	0.352	0.223	259	209	260	62.5	3595
120	0.253	0.325	0.343	0.234	294	237	297	64.7	3935
150	0.206	0.265	0.330	0.255	330	267	337	68.6	4520
185	0.164	0.211	0.320	0.276	374	303	385	72.2	5165
240	0.125	0.162	0.306	0.307	434	354	454	77.6	5905
300	0.100	0.130	0.296	0.335	490	402	519	82.9	6885
400	0.0778	0.1020	0.287	0.371	564	464	606	89.3	7960
500	0.0605	0.0803	0.274	0.426	648	533	709	98.8	9465



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Tape Armoured and PVC Sheathed

CU/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.513	0.549	0.175	237	240	198	246	251	34	1585
70	0.268	0.342	0.445	0.483	0.202	288	292	245	308	312	36	1850
95	0.193	0.247	0.421	0.458	0.223	343	347	293	372	377	37.8	2175
120	0.153	0.196	0.406	0.444	0.234	387	392	332	427	428	38.7	2415
150	0.124	0.159	0.391	0.430	0.255	433	436	372	479	481	40.5	2850
185	0.0991	0.1275	0.378	0.417	0.276	487	490	421	546	546	42.1	3240
240	0.0754	0.0977	0.361	0.400	0.307	562	563	490	641	638	44.9	3890
300	0.0601	0.0787	0.349	0.389	0.335	628	627	552	728	717	47.5	4620
400	0.0470	0.0626	0.337	0.377	0.371	708	701	627	835	811	50.5	5605
500	0.0366	0.0503	0.321	0.361	0.426	800	788	716	967	931	55	6780
630	0.0283	0.0408	0.312	0.352	0.464	891	873	805	1094	1044	58.4	8210
800	0.0221	0.0336	0.303	0.344	0.515	983	957	897	1230	1162	63	10140
1000	0.0176	0.0292	0.295	0.336	0.584	1017	1037	981	1373	1297	67.3	12265

AL/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.513	0.549	0.175	184	187	154	191	195	34	1300
70	0.443	0.568	0.445	0.483	0.202	224	227	190	239	244	36	1445
95	0.320	0.411	0.421	0.458	0.223	267	271	228	289	294	37.8	1610
120	0.253	0.325	0.406	0.444	0.234	302	306	258	330	335	38.7	1715
150	0.206	0.265	0.391	0.430	0.255	338	342	290	374	378	40.5	1960
185	0.164	0.211	0.378	0.417	0.276	382	386	329	428	432	42.1	2140
240	0.125	0.161	0.361	0.400	0.307	443	446	384	504	507	44.9	2440
300	0.100	0.130	0.349	0.389	0.335	497	500	435	575	574	47.5	2785
400	0.0778	0.1014	0.337	0.377	0.371	567	568	499	667	661	50.5	3225
500	0.0605	0.0799	0.321	0.361	0.426	649	647	578	783	770	55	3765
630	0.0469	0.0632	0.312	0.352	0.464	735	729	660	900	878	58.4	4365
800	0.0367	0.0511	0.303	0.3436	0.515	827	816	750	1032	998	63	5120
1000	0.0291	0.0423	0.295	0.336	0.584	922	904	839	1179	1140	67.5	5980



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CU/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.396	0.175	224	181	220	59.6	4885
70	0.268	0.342	0.370	0.202	272	224	271	63.9	5715
95	0.193	0.247	0.352	0.223	324	268	327	67.9	6845
120	0.153	0.196	0.343	0.234	366	303	371	70.3	7685
150	0.124	0.159	0.330	0.255	411	341	420	74.2	8930
185	0.0991	0.1278	0.320	0.276	463	285	477	78	10345
240	0.0754	0.0982	0.306	0.307	535	447	559	84.8	13090
300	0.0601	0.0794	0.296	0.335	600	504	639	90.3	15455
400	0.0470	0.0635	0.287	0.371	677	572	722	96.9	18575
500	0.0366	0.0515	0.274	0.426	773	647	843	106.6	22260

AL/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.396	0.175	174	141	171	59.6	4030
70	0.443	0.568	0.370	0.202	211	174	210	63.9	4470
95	0.320	0.411	0.352	0.223	252	208	253	67.9	5125
120	0.253	0.325	0.343	0.234	285	236	288	70.3	5550
150	0.206	0.265	0.330	0.255	320	265	327	74.2	6220
185	0.164	0.211	0.320	0.276	362	301	373	78	7000
240	0.125	0.162	0.306	0.307	420	351	438	84.8	8690
300	0.100	0.130	0.296	0.335	474	398	505	90.3	9895
400	0.0778	0.1020	0.287	0.371	542	459	579	96.9	11365
500	0.0605	0.0803	0.274	0.426	632	529	689	106.6	13140



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Wire Armoured and PVC Sheathed

CU/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.485	0.522	0.175	259	262	223	298	302	35.2	1760
70	0.268	0.342	0.452	0.489	0.202	289	293	246	313	315	37.2	2050
95	0.193	0.247	0.431	0.469	0.223	343	346	293	377	376	38.8	2365
120	0.153	0.196	0.419	0.457	0.234	386	388	330	428	424	39.9	2630
150	0.124	0.159	0.404	0.442	0.255	429	429	367	482	473	41.7	3075
185	0.0991	0.1274	0.384	0.423	0.276	479	477	412	546	531	43.5	3495
240	0.0754	0.0976	0.379	0.417	0.307	541	537	468	633	604	47.3	4310
300	0.0601	0.0787	0.365	0.403	0.335	599	591	519	711	670	49.7	5040
400	0.0470	0.0625	0.350	0.390	0.371	663	650	577	803	744	52.9	6075
500	0.0366	0.0501	0.335	0.375	0.426	732	715	642	911	830	57.4	7295
630	0.0283	0.0404	0.329	0.368	0.464	795	774	701	1008	903	60.8	8760
800	0.0221	0.0336	0.314	0.353	0.515	856	829	760	1110	979	65	10685
1000	0.0176	0.0291	0.299	0.339	0.584	911	880	815	1213	1057	68.9	12750

AL/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.485	0.522	0.175	201	205	173	232	236	35.2	1530
70	0.443	0.568	0.452	0.489	0.202	226	229	192	244	248	37.2	1635
95	0.320	0.411	0.431	0.469	0.223	269	273	229	295	297	38.8	1790
120	0.253	0.325	0.419	0.457	0.234	303	306	259	335	337	39.9	1920
150	0.206	0.265	0.404	0.442	0.255	338	341	290	379	378	41.7	2175
185	0.164	0.211	0.384	0.423	0.276	380	382	327	432	428	43.5	2380
240	0.125	0.161	0.379	0.417	0.307	434	435	376	506	495	47.3	2845
300	0.100	0.129	0.365	0.403	0.335	485	484	421	573	555	49.7	3190
400	0.0778	0.1013	0.350	0.390	0.371	545	542	476	657	628	52.9	3680
500	0.0605	0.0797	0.335	0.375	0.426	613	606	538	758	714	57.4	4265
630	0.0469	0.0630	0.329	0.368	0.464	678	668	599	855	793	60.8	4895
800	0.0367	0.0508	0.314	0.353	0.515	745	731	662	960	877	65	5660
1000	0.0291	0.0422	0.299	0.339	0.584	810	791	725	1070	964	69.1	6465



MEDIUM VOLTAGE CABLES

12/20 (24) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CU/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.396	0.175	222	184	220	62.6	6590
70	0.268	0.342	0.370	0.202	273	226	275	67.1	7585
95	0.193	0.247	0.352	0.223	326	270	331	70.9	8800
120	0.153	0.196	0.343	0.234	368	305	376	74.8	10570
150	0.124	0.159	0.330	0.255	712	345	426	78.7	11975
185	0.0991	0.1278	0.320	0.276	463	388	482	82.5	13545
240	0.0754	0.0982	0.306	0.307	532	447	561	88.1	15745
300	0.0601	0.0794	0.296	0.335	594	503	632	93.6	18280
400	0.0470	0.0635	0.287	0.371	667	566	719	100.2	21610
500	0.0366	0.0515	0.274	0.426	741	628	812	110.1	25660

AL/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.396	0.175	172	142	171	62.6	5735
70	0.443	0.568	0.370	0.202	212	176	213	67.1	6340
95	0.320	0.411	0.352	0.223	253	210	257	70.9	7075
120	0.253	0.325	0.343	0.234	287	240	293	74.8	8435
150	0.206	0.265	0.330	0.255	321	270	332	78.7	9270
185	0.164	0.211	0.320	0.276	363	305	378	82.5	10200
240	0.125	0.162	0.306	0.307	420	353	442	88.1	11345
300	0.100	0.130	0.296	0.335	472	401	502	93.6	12725
400	0.0778	0.1020	0.287	0.371	538	457	579	100.2	14400
500	0.0605	0.0803	0.274	0.426	612	518	669	110.1	16545



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.477	0.513	0.139	240	236	200	247	252	34.4	1430
70	0.268	0.342	0.450	0.488	0.157	294	294	246	309	316	36.6	1715
95	0.193	0.247	0.431	0.468	0.172	351	352	295	375	383	38.4	2030
120	0.153	0.196	0.415	0.453	0.180	397	398	335	427	436	39.3	2275
150	0.124	0.159	0.400	0.438	0.195	436	445	376	485	493	41.1	2705
185	0.0991	0.1274	0.386	0.425	0.209	493	502	426	555	563	42.7	3075
240	0.0754	0.0976	0.369	0.408	0.231	583	581	495	653	662	45.3	3705
300	0.0601	0.0786	0.355	0.395	0.251	643	654	560	746	752	47.7	4400
400	0.0470	0.0626	0.342	0.382	0.275	728	734	637	859	859	50.7	5370
500	0.0366	0.0502	0.326	0.366	0.313	829	834	729	1002	999	55.2	6515
630	0.0283	0.0406	0.318	0.358	0.340	931	934	825	1142	1134	58.6	7930
800	0.0221	0.0338	0.306	0.347	0.375	1034	1034	921	1293	1278	62.8	9795
1000	0.0176	0.0291	0.298	0.339	0.408	1153	1130	1009	1450	1429	66.9	11855

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.477	0.513	0.139	186	183	155	191	196	34.4	1145
70	0.443	0.568	0.450	0.488	0.157	228	229	191	240	245	36.6	1300
95	0.320	0.411	0.431	0.468	0.172	272	273	229	291	297	38.4	1455
120	0.253	0.325	0.415	0.453	0.180	309	309	260	332	339	39.3	1570
150	0.206	0.265	0.400	0.438	0.195	339	346	292	376	384	41.1	1805
185	0.164	0.211	0.386	0.425	0.209	384	392	332	432	440	42.7	1965
240	0.125	0.161	0.369	0.408	0.231	455	455	387	510	520	45.3	2245
300	0.100	0.129	0.355	0.395	0.251	504	513	439	584	593	47.7	2555
400	0.0778	0.1014	0.342	0.382	0.275	577	585	504	680	687	50.7	2975
500	0.0605	0.0798	0.326	0.366	0.313	664	673	585	802	808	55.2	3485
630	0.0469	0.0631	0.318	0.358	0.340	756	764	671	927	931	58.6	4065
800	0.0367	0.0510	0.306	0.347	0.375	856	863	764	1069	1070	62.6	4770
1000	0.0291	0.0422	0.297	0.338	0.409	978	965	856	1228	1224	67.1	5580



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated and PVC Sheathed

CU/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.598	0.139	221	182	219	66.6	4550
70	0.268	0.342	0.569	0.157	277	224	279	71.1	5390
95	0.193	0.247	0.549	0.172	332	268	338	74.8	6465
120	0.153	0.196	0.537	0.180	376	303	385	76.9	7345
150	0.124	0.159	0.524	0.195	423	342	437	80.6	8420
185	0.0991	0.1271	0.512	0.209	478	385	498	84.4	9725
240	0.0754	0.0972	0.495	0.231	555	448	586	89.8	11590
300	0.0601	0.0780	0.484	0.251	626	507	668	95	13770
400	0.0470	0.0616	0.472	0.275	712	574	769	101.9	16930
500	0.0366	0.0489	0.456	0.313	773	655	835	111.7	20425

AL/XLPE/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.598	0.139	172	141	170	66.6	3690
70	0.443	0.568	0.569	0.157	215	174	217	71.1	4145
95	0.320	0.411	0.549	0.172	257	208	262	74.8	4695
120	0.253	0.325	0.537	0.180	292	236	299	76.9	5165
150	0.206	0.265	0.524	0.195	328	265	339	80.6	5665
185	0.164	0.211	0.512	0.209	372	300	388	84.4	6325
240	0.125	0.161	0.495	0.231	432	350	456	89.8	7130
300	0.100	0.129	0.484	0.251	489	397	522	95	8145
400	0.0778	0.1008	0.472	0.275	562	454	607	101.9	9650
500	0.0605	0.0789	0.456	0.313	619	525	668	111.7	11230



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Tape Armoured and PVC Sheathed

CU/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
									 ≥ 0.5D _e	 ≥ 0.5D _e		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.505	0.542	0.139	234	238	201	249	253	40	1965
70	0.268	0.342	0.472	0.508	0.157	286	290	247	310	314	42	2260
95	0.193	0.247	0.449	0.487	0.172	342	345	295	375	379	43.6	2580
120	0.153	0.196	0.438	0.476	0.180	390	397	331	426	429	44.9	2885
150	0.124	0.159	0.423	0.461	0.195	432	435	371	483	486	46.7	3340
185	0.0991	0.1274	0.409	0.447	0.209	495	489	420	548	547	48.3	3740
240	0.0754	0.0975	0.389	0.428	0.231	559	559	482	642	637	51.1	4425
300	0.0601	0.0784	0.376	0.414	0.251	649	660	540	729	717	53.3	5130
400	0.0470	0.0623	0.361	0.401	0.275	704	696	606	834	810	56.7	6200
500	0.0366	0.0499	0.344	0.383	0.313	783	783	683	965	928	61.2	7415
630	0.0283	0.0402	0.335	0.374	0.340	862	835	753	1066	996	64.6	8880
800	0.0221	0.0334	0.323	0.363	0.375	977	949	823	1226	1153	68.8	10815
1000	0.0176	0.0286	0.315	0.355	0.408	1065	1027	878	1367	1274	73.1	12970

AL/XLPE/ATA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.505	0.542	0.139	182	185	156	193	197	40	1680
70	0.443	0.568	0.472	0.508	0.157	223	226	192	241	245	42	1850
95	0.320	0.411	0.449	0.487	0.172	266	269	230	291	296	43.6	2010
120	0.253	0.325	0.438	0.476	0.180	303	308	260	332	336	44.9	2175
150	0.206	0.265	0.423	0.461	0.195	337	341	291	376	381	46.7	2440
185	0.164	0.211	0.409	0.447	0.209	385	385	331	429	433	48.3	2620
240	0.125	0.161	0.389	0.428	0.231	440	443	381	505	507	51.1	3960
300	0.100	0.129	0.376	0.414	0.251	495	515	431	576	574	53.3	3280
400	0.0778	0.1012	0.361	0.401	0.275	563	563	489	666	658	56.7	3800
500	0.0605	0.0796	0.344	0.383	0.313	637	642	560	779	765	61.2	4385
630	0.0469	0.0629	0.335	0.374	0.340	717	705	630	882	874	64.6	5015
800	0.0367	0.0506	0.323	0.363	0.375	817	804	701	1020	984	68.8	5785
1000	0.0291	0.0418	0.315	0.354	0.409	980	888	762	1160	1108	73.3	6700



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Tape Armoured and PVC Sheathed

CU/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.598	0.139	220	183	219	72.6	6290
70	0.268	0.342	0.569	0.157	271	225	274	77.4	7280
95	0.193	0.247	0.549	0.172	320	270	328	81.2	8440
120	0.153	0.196	0.537	0.180	364	306	373	84.7	10185
150	0.124	0.159	0.524	0.195	409	343	423	88.5	11390
185	0.0991	0.1271	0.512	0.209	462	387	480	92.3	12830
240	0.0754	0.0972	0.495	0.231	533	448	565	98	14980
300	0.0601	0.0780	0.484	0.251	599	502	642	103.4	17395
400	0.0470	0.0616	0.472	0.275	678	567	727	110	20695
500	0.0366	0.0489	0.456	0.313	758	642	828	119.9	24600

AL/XLPE/STA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air $\geq 0.3 D_e$		
mm ²	Ω/km	Ω/km	mH/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.598	0.139	171	142	170	72.6	5430
70	0.443	0.568	0.569	0.157	211	175	213	77.4	6035
95	0.320	0.411	0.549	0.172	250	209	255	81.2	6720
120	0.253	0.325	0.537	0.180	283	239	290	84.7	8055
150	0.206	0.265	0.524	0.195	318	266	328	88.5	8690
185	0.164	0.211	0.512	0.209	360	302	375	92.3	9490
240	0.125	0.161	0.495	0.231	410	352	442	98	10580
300	0.100	0.129	0.484	0.251	471	397	504	103.4	11840
400	0.0778	0.1008	0.472	0.275	541	453	580	110	13490
500	0.0605	0.0789	0.456	0.313	617	522	673	119.9	15490



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Single Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Aluminium Wire Armoured and PVC Sheathed

CU/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.387	0.494	0.513	0.549	0.139	236	238	203	253	255	41.2	2175
70	0.268	0.342	0.479	0.516	0.157	288	291	249	314	316	43.2	2480
95	0.193	0.247	0.457	0.495	0.172	342	344	295	379	378	45	2830
120	0.153	0.196	0.446	0.483	0.180	384	385	332	429	425	46.1	3120
150	0.124	0.159	0.433	0.471	0.195	425	425	370	483	474	49.1	3760
185	0.0991	0.1273	0.419	0.457	0.209	474	473	413	547	531	50.7	4170
240	0.0754	0.0975	0.400	0.439	0.231	539	536	472	634	607	53.5	4885
300	0.0601	0.0784	0.387	0.425	0.251	597	590	525	712	673	55.9	5640
400	0.0470	0.0622	0.372	0.411	0.275	662	652	584	805	749	59.1	6710
500	0.0366	0.0498	0.353	0.392	0.313	733	718	649	915	837	63.6	7970
630	0.0283	0.0401	0.342	0.382	0.340	798	778	710	1015	914	67	9465
800	0.0221	0.0332	0.331	0.370	0.375	860	835	770	1118	991	71.2	11430
1000	0.0176	0.0284	0.323	0.362	0.408	916	885	823	1213	1058	75.5	13630

AL/XLPE/AWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance		Capacitance	Current Carrying Capacity					Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C	Trefoil	Flat		Ground			Air			
						Trefoil	Flat Touched	Duct	Trefoil	Flat Touched		
												
mm²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	A	A	mm	kg/km	
50	0.641	0.822	0.513	0.549	0.139	183	186	158	197	199	41.2	1940
70	0.443	0.568	0.479	0.516	0.157	225	228	194	245	248	43.2	2070
95	0.320	0.411	0.457	0.495	0.172	267	270	231	296	298	45	2260
120	0.253	0.325	0.446	0.483	0.180	302	305	261	336	337	46.1	2410
150	0.206	0.265	0.433	0.471	0.195	335	338	293	381	379	49.1	2860
185	0.164	0.211	0.419	0.457	0.209	377	380	329	433	429	50.7	3060
240	0.125	0.161	0.400	0.439	0.231	433	434	379	506	496	53.5	3425
300	0.100	0.129	0.387	0.425	0.251	483	483	425	573	557	55.9	3790
400	0.0778	0.1012	0.372	0.411	0.275	544	542	481	658	631	59.1	4315
500	0.0605	0.0795	0.353	0.392	0.313	613	608	544	760	719	63.6	4940
630	0.0469	0.0628	0.342	0.382	0.340	681	672	607	859	800	67	5600
800	0.0367	0.0505	0.331	0.370	0.375	750	737	672	967	886	71.2	6400
1000	0.0291	0.0416	0.322	0.362	0.409	816	797	734	1071	965	75.7	7345



MEDIUM VOLTAGE CABLES

18/30 (36) kV

Three Core Cables, With Stranded Circular Copper or Aluminium Conductors, XLPE Insulated, Steel Wire Armoured and PVC Sheathed

CU/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.387	0.494	0.598	0.139	223	186	224	77.1	9095
70	0.268	0.342	0.569	0.157	272	227	277	82	10315
95	0.193	0.247	0.549	0.172	324	271	333	85.7	11585
120	0.153	0.196	0.537	0.180	365	305	377	88	12555
150	0.124	0.159	0.524	0.195	408	344	426	91.7	13870
185	0.0991	0.1271	0.512	0.209	457	383	481	95.5	15520
240	0.0754	0.0972	0.495	0.231	522	439	556	101.3	17835
300	0.0601	0.0780	0.484	0.251	580	488	623	106.7	20415
400	0.0470	0.0616	0.472	0.275	644	544	702	113.2	23815
500	0.0366	0.0489	0.456	0.313	712	604	790	123.2	28025

AL/XLPE/SWA/PVC

Nominal Cross Sectional Area	Max Conductor Resistance		Inductance	Capacitance	Current Carrying Capacity			Overall Diameter (approx.)	Overall Weight (approx.)
	DC at 20 °C	AC at 90 °C			Ground	Duct	Air		
mm ²	Ω/km	Ω/km	mh/km	μF/km	A	A	A	mm	kg/km
50	0.641	0.822	0.598	0.139	173	144	174	77.1	8240
70	0.443	0.568	0.569	0.157	212	177	215	82	9070
95	0.320	0.411	0.549	0.172	253	212	259	85.7	9860
120	0.253	0.325	0.537	0.180	286	239	295	88	10415
150	0.206	0.265	0.524	0.195	320	270	333	91.7	11160
185	0.164	0.211	0.512	0.209	360	302	378	95.5	12170
240	0.125	0.161	0.495	0.231	415	349	440	101.3	13435
300	0.100	0.129	0.484	0.251	464	391	497	106.7	14855
400	0.0778	0.1008	0.472	0.275	524	443	568	113.2	16605
500	0.0605	0.0789	0.456	0.313	592	502	653	123.2	18905

