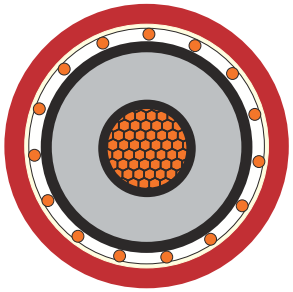
Single Core Cable

For Installations outdoor in ground, in ducts and indoor on trays.

Type	:	CU/XLPE/PVC, 3.6/6 KV
Standard	:	IEC 60502-2
Conductor	:	Circular stranded Compacted copper(or Aluminum)
Conductor Screen	:	Bonded semiconducting material
Insulation	:	XLPE material
Insulation Screen	:	Strippable semiconducting material (or Bonded)
Metallic Screen	:	Annealed copper wires or (copper tape)
Jacketing	:	PVC compound (or LSHF or PE)



TECHNICAL INFORMATION

1. Weight and Dimension Data

Nominal Crosss Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Cable Weight
n x mm^2	mm	mm	mm	kg/km
1x25	2.5	1.5	19.8	640
1x35	2.5	1.6	21.0	765
1x50	2.5	1.6	22.4	905
1x70	2.5	1.6	24.0	1135
1x95	2.5	1.7	25.9	1405
1x120	2.5	1.8	27.6	1660
1x150	2.5	1.8	29.2	2035
1x185	2.5	1.9	31.4	2395
1x240	2.6	1.9	34.1	2980
1x300	2.8	2.0	36.3	3610
1x400	3.0	2.2	40.2	4500
1x500	3.2	2.3	44	5500
1x630	3.2	2.4	47.5	7110

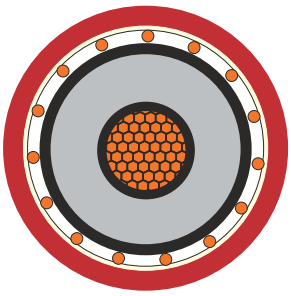
2. Electrical Data

Cross section Area	mm^2	25	35	50	70	95	120	150	185	240	300	400	500	630
Screen Area	mm^2	16	16	16	16	16	16	25	25	25	25	35	35	35
DC Resist at 20 ^{o}C	Ω/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.028
Ac Resist at 90 ^{o}C	Ω/km	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.1290	0.099	0.0812	0.0657	0.538	0.045
Inductance														
Flat Formation	mh/km	0.495	0.467	0.440	0.417	0.400	0.384	0.380	0.368	0.355	0.349	0.345	0.338	0.328
Trefoil Formation	mh/km	0.449	0.421	0.394	0.371	0.353	0.338	0.331	0.322	0.420	0.303	0.299	0.292	0.283
Capacitance	µF/km	0.269	0.306	0.337	0.385	0.430	0.472	0.514	0.558	0.606	0.617	0.646	0.672	0.751
Charging current	A/km	0.365	0.415	0.457	0.522	0.583	0.640	0.697	0.758	0.823	0.838	0.876	0.912	1.019
Dielectic losses	W/m	0.011	0.012	0.013	0.015	0.017	0.018	0.020	0.022	0.024	0.024	0.025	0.026	0.029
Current Ampacity														
Cable in ground	A	170	195	235	265	305	345	395	455	500	560	635	710	790
Cable in free air	A	180	210	245	285	355	410	470	540	630	720	840	960	1100
Short circuit current														
Conductor S.C (1 Sec)	KA	5.01	5.0	7.15	10.0	13.5	17.1	21.4	26.4	34.4	42.9	57.2	71.5	90.0
Screen S.C (1 Sec)	KA	2.29	2.29	2.29	2.29	2.29	2.29	3.58	3.58	3.58	3.58	5.07	5.07	5.07

Single Core Cable

For Installations outdoor in ground, in ducts and indoor on trays.

Type	:	CU/XLPE/PVC, 6/10 KV
Standard	:	IEC 60502-2
Conductor	:	Circular stranded Compacted copper (or Aluminum)
Conductor Screen	:	Bonded semiconducting material
Insulation	:	XLPE material
Insulation Screen	:	Strippable semiconducting material (or Bonded)
Metallic Screen	:	Annealed Copper Wire (or Copper Tape)
Jacketing	:	PVC compound (or LSHF or PE)



TECHNICAL INFORMATION

1. Weight and Dimension Data

Nominal Crosss Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Cable Weight
n x mm^2	mm	mm	mm	kg/km
1x25	3.4	1.6	21.8	710
1x35	3.4	1.6	23.1	825
1x50	3.4	1.7	24.4	980
1x70	3.4	1.7	26.1	1200
1x95	3.4	1.8	27.9	1495
1x120	3.4	1.8	29.4	1740
1x150	3.4	1.9	31.6	2134
1x185	3.4	1.9	33.2	2485
1x240	3.4	2.0	35.9	3080
1x300	3.4	2.1	38.3	3695
1x400	3.4	2.2	41.5	4620
1x500	3.4	2.3	44.6	5595
1x630	3.4	2.4	49.3	7145

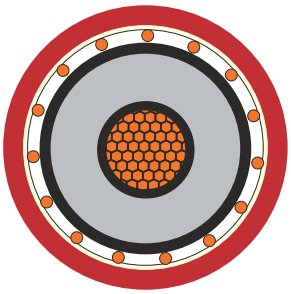
2. Electrical Data

Cross section Area	mm^2	25	35	50	70	95	120	150	185	240	300	400	500	630
Screen Area	mm^2	16	10	16	16	16	16	25	25	25	25	35	35	35
DC Resist at 20 ^{O}C	Ω/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Ac Resist at 90 ^{O}C	Ω/km	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.1290	0.099	0.0812	0.0657	0.0538	0.0452
Inductance														
Flat Formation	mh/km	0.512	0.483	0.474	0.433	0.417	0.400	0.363	0.382	0.367	0.352	0.347	00.341	0.330
Trefoil Formation	mh/km	0.466	0.437	0.410	0.385	0.368	0.352	0.344	0.334	0.319	0.310	0.302	0.294	0.282
Capacitance	µF/km	0.213	0.240	0.264	0.299	0.332	0.363	0.394	0.427	0.479	0.520	0.577	0.636	0.711
Charging current	A/km	0.482	0.544	0.596	0.676	0.751	0.822	0.892	0.966	1.083	1.176	1.306	1.439	1.607
Dielectic losses	W/m	0.023	0.026	0.029	0.032	0.036	0.039	0.043	0.046	0.052	0.056	0.063	0.069	0.077
Current Ampacity														
Cable in ground	A	170	195	235	265	305	345	395	455	500	560	635	710	790
Cable in free air	A	180	210	245	285	355	410	470	540	630	720	840	960	1100
Short circuit current														
Conductor S.C (1 Sec)	KA	3.57	5.0	7.15	10.0	13.5	17.1	21.4	26.4	34.4	42.9	57.2	71.5	90.0
Screen S.C (1 Sec)	KA	2.29	2.29	2.29	2.29	2.29	2.29	3.58	2.29	3.58	3.58	5.07	5.07	5.07

Single Core Cable

For Installations outdoor in ground, in ducts and indoor on trays.

Type	:	CU/XLPE/PVC, 12/20 KV
Standard	:	IEC 60502-2
Conductor	:	Circular stranded Compacted copper (or Aluminum)
Conductor Screen	:	Bonded semiconducting material
Insulation	:	XLPE material
Insulation Screen	:	Strippable semiconducting material (or Bonded)
Metallic Screen	:	Annealed Copper wires (or Copper Tape)
Jacketing	:	PVC compound (or LSHF or PE)



TECHNICAL INFORMATION

1. Weight and Dimension Data

Nominal Crosss Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Cable Weight
n x mm^2	mm	mm	mm	kg/km
1x35	5.5	1.8	27.7	1015
1x50	5.5	1.8	28.8	1160
1x70	5.5	1.9	30.7	1415
1x95	5.5	1.9	32.3	1700
1x120	5.5	2.0	34	1975
1x150	5.5	2.0	36	2365
1x185	5.5	2.1	37.8	2710
1x240	5.5	2.2	40.5	3360
1x300	5.5	2.2	42.5	3970
1x400	5.5	2.3	45.9	4920
1x500	5.5	2.4	48.6	5900
1x630	5.5	2.5	53.7	7495

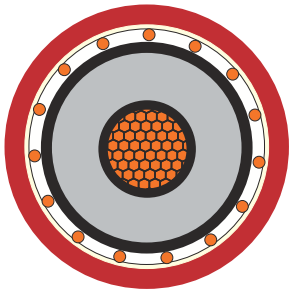
2. Electrical Data

Cross section Area	mm^2	35	50	70	95	120	150	185	240	300	400	500	630
Screen Area	mm^2	16	16	16	16	16	25	25	25	25	35	35	35
DC Resist at 20 ^{O}C	Ω/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.366	0.0283
Ac Resist at 90 ^{O}C	Ω/km	0.668	0.494	0.342	0.247	0.196	0.160	0.1286	0.0990	0.0806	0.0641	0.0530	0.0440
Inductance	mh/km	0.521	0.491	0.466	0.446	0.429	0.419	0.4080	0.391	0.380	0.370	0.358	0.347
Flat Formation Trefoil Formation	mh/km	0.472	0.443	0.417	0.398	0.381	0.371	0.359	0.343	0.333	0.323	0.310	0.300
Capacitance	µF/km	0.170	0.185	0.207	0.228	0.247	0.267	0.287	0.319	0.345	0.381	0.417	0.464
Charging current	A/km	0.769	0.835	0.936	1.031	1.119	1.207	1.300	1.445	1.561	1.723	1.889	2.089
Dielectic losses	W/m	0.074	0.080	0.090	0.099	0.107	0.116	0.125	0.139	0.150	0.165	0.181	0.201
Current Ampacity													
Cable in ground	A	175	210	255	305	345	385	430	500	560	630	710	795
Cable in free air	A	200	240	300	360	415	475	540	640	730	840	960	1105
Short circuit current													
Conductor S.C (1 Sec)	KA	5.0	7.15	10.0	13.5	17.1	21.4	26.4	34.4	42.9	57.2	71.5	90.0
Screen S.C (1 Sec)	KA	2.29	2.29	2.29	2.29	2.29	3.58	3.58	3.58	3.58	5.07	5.07	5.07

Single Core Cable

For Installations outdoor in ground, in ducts and indoor on trays.

Type	:	CU/XLPE/PVC, 8.7/15 KV
Standard	:	IEC 60502-2
Conductor	:	Circular stranded Compacted copper(or Aluminum)
Conductor Screen	:	Bonded semiconducting material
Insulation	:	XLPE material
Insulation Screen	:	Strippable semiconducting material (or Bonded)
Metallic Screen	:	Annealed Copper Wires (or LSHF or PE)
Jacketing	:	PVC compound (or LSHF or PE)



TECHNICAL INFORMATION

1. Weight and Dimension Data

Nominal Crosss Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Cable Weight
n x mm^2	mm	mm	mm	kg/km
1x25	4.5	1.7	24.2	800
1x35	4.5	1.7	25.5	920
1x50	4.5	1.7	26.6	1065
1x70	4.5	1.8	28.5	1305
1x95	4.5	1.8	30.1	1590
1x120	4.5	1.9	31.8	1860
1x150	4.5	2	34	2260
1x185	4.5	2.0	35.0	2540
1x240	4.5	2.1	38.3	3225
1x300	4.5	2.2	40.5	3850
1x400	4.5	2.3	43.9	4785
1x500	4.5	2.4	47	5770
1x630	4.5	2.5	51.7	7335

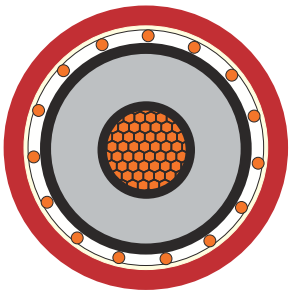
2. Electrical Data

Cross section Area	mm^2	25	35	50	70	95	120	150	185	240	300	400	500	630
Screen Area	mm^2	16	16	16	16	16	16	25	25	25	25	35	35	35
DC Resist at 20 ^{o}C	Ω/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Ac Resist at 90 ^{o}C	Ω/km	0.927	0.668	0.494	0.342	0.247	0.196	0.160	0.1286	0.0992	0.0806	0.0651	0.532	0.0455
Inductance														
Flat Formation	mh/km	0.534	0.504	0.475	0.451	0.432	0.416	0.407	0.396	0.380	0.371	0.361	0.352	0.339
Trefoil Formation	mh/km	0.486	0.457	0.427	0.402	0.384	0.386	0.358	0.348	0.332	0.322	0.314	0.304	0.291
Capacitance	µF/km	0.175	0.196	0.213	0.240	0.266	0.289	0.313	0.338	0.377	0.408	0.452	0.496	0.553
Charging current	A/km	0.572	0.641	0.699	0.788	0.871	0.949	1.026	1.108	1.236	1.339	1.481	1.628	1.813
Dielectic losses	W/m	0.040	0.045	0.049	0.055	0.061	0.066	0.071	0.077	0.086	0.093	0.103	0.113	0.126
Current Ampacity														
Cable in ground	A	150	180	210	255	305	345	390	430	500	560	630	710	790
Cable in free air	A	165	200	240	300	360	415	475	540	635	730	840	960	1100
Short circuit current														
Conductor S.C (1 Sec)	KA	3.57	5.0	7.15	10.0	13.5	17.1	21.4	26.4	34.4	42.9	57.2	71.5	90.0
Screen S.C (1 Sec)	KA	2.29	2.29	2.29	2.29	2.29	2.29	3.58	3.58	3.58	3.58	5.07	5.07	5.07

SIngle Core Cable

For Installations outdoor in ground, in ducts and indoor on trays.

Type	:	CU/XLPE/PVC, 18/30 KV
Standard	:	IEC 60502-2
Conductor	:	Circular stranded Compacted copper (or Aluminum)
Conductor Screen	:	Bonded semiconducting material
Insulation	:	XLPE material
Insulation Screen	:	Strippable semiconducting material (or Bonded)
Metallic Screen	:	Copper Wires (or Copper Tape)
Bedding	:	PVC compound (or LSHF or PE)
Jacketing	:	PVC compound (or LSHF or PE)



TECHNICAL INFORMATION

1. Weight and Dimension Data

Nominal Crosss Section	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Cable Weight
n x mm^2	mm	mm	mm	kg/km
1x35	8.0	1.9	32.9	1265
1x50	8.0	2.0	34.2	1436
1x70	8.0	2.0	35.9	1685
1x95	8.0	2.1	37.7	2005
1x120	8.0	2.1	39.2	2275
1x150	8.0	2.2	41.4	2695
1x185	8.0	2.2	43	3070
1x240	8.0	2.3	45.7	3710
1x300	8.0	2.4	47.9	4360
1x400	8.0	2.5	51.3	5330
1x500	8.0	2.6	54.3	6355
1x630	8.0	2.7	59.1	7975

2. Electrical Data

Cross section Area	mm^2	35	50	70	95	120	150	185	240	300	400	500	630
Screen Area	mm^2	16	16	16	16	16	25	25	25	25	35	35	35
DC Resist at 20 ^{O}C	Ω/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.366	0.0283
Ac Resist at 90 ^{O}C	Ω/km	0.668	0.494	0.342	0.247	0.196	0.160	0.1286	0.0990	0.0806	0.0648	0.0530	0.0440
Inductance Flat Formation	mh/km	0.555	0.525	0.497	0.477	0.458	0.447	0.433	0.414	0.404	0.393	0.381	366
Trefoil Formation	µF/km	0.509	0.477	0.450	0.429	0.411	0.399	0.386	0.368	0.356	0.343	0.332	0.320
Capacitance	A/km	0.133	0.143	0.159	0.174	0.192	0.201	0.216	0.238	0.256	0.281	0.306	0.34
Charging current	W/m	0.903	0.974	1.081	0.181	1.274	1.366	1.464	1.161	1.737	1.906	2.6	2.30
Dielectic losses		0.130	0.140	0.156	0.170	0.183	0.197	0.221	0.233	0.250	0.270	0.300	0.330
Current Ampacity Cable in ground	A	176	210	257	305	346	387	432	500	563	630	712	795
Cable in free air	A	205	243	305	368	419	479	545	645	732	845	965	1105
Short circuit current Conductor S.C (1 Sec)	KA	5.0	7.15	10.0	13.5	17.1	21.4	26.4	34.4	42.9	57.2	71.5	90.0
Screen S.C (1 Sec)	KA	2.29	2.29	2.29	2.29	2.29	3.58	3.58	3.58	3.58	5.07	5.07	5.07