

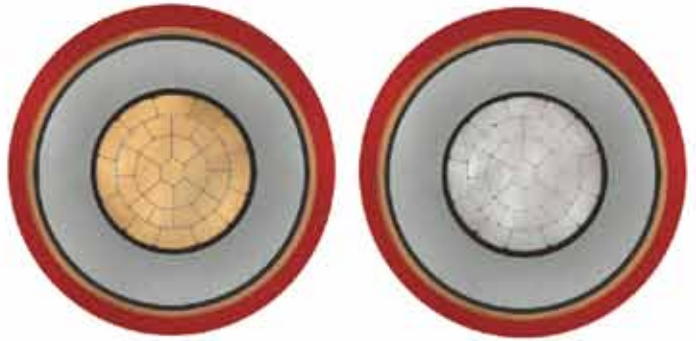
**N2XSY/NA2XSY**  
**1.8/3(3.6) kV**  
**IEC 60502-1**

Copper/Aluminium conductor,  
XLPE insulated,  
Copper wire/ tape screened,  
PVC sheathed cable

DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area		mm <sup>2</sup>	25	35	50	70	95	120	150	185	240	300	400	500	630	800		
Conductor diameter (approx)		mm	6.05	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2		
Nominal insulation thickness		mm	2.0															
Insulation diameter (approx)		mm	10.3	11.3	12.5	14.1	15.9	17.3	18.5	20.5	22.9	25.1	27.9	31.2	35.3	39.6		
Nominal outer sheath thickness		mm	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.2	2.3		
Overall cable diameter (approx)		mm	13	14	15	17	19	21	22	24	27	29	32	35	39	44		
Cable net weight ( approx)		CU	400	500	600	800	1,100	1,300	1,600	2,000	2,500	3,100	3,900	5,000	6,400	8,200		
		AL	200	250	300	400	500	600	700	800	1,000	1,200	1,500	1,900	2,400	3,100		
Standard length per-reel		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500		
Minimum bending radius		mm	190	210	240	270	310	340	360	400	450	500	560	620	700	780		
Max. DC conductor resistance at 20 °C		CU	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	0.0221		
		AL	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367		
Min. insulation resistance at 20 °C		MΩ.Km	900	700	700	600	500	400	400	300	300	300	300	300	200	200		
Capacitance per phase		µF/Km	0.261	0.299	0.334	0.393	0.453	0.499	0.539	0.606	0.685	0.758	0.851	0.871	0.909	0.947		
Inductance per phase		o	0.345	0.327	0.313	0.3	0.287	0.280	0.274	0.267	0.260	0.253	0.248	0.245	0.243	0.239		
		o o o o																
Max.short circuit current of conductor		CU	3.73	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79	72.16	90.83	115.23		
		AL	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14	47.60	59.90	75.96		
Maximum current carrying capacity at 30 °C		in air		o	162	195	234	292	354	407	461	528	622	730	816	922	1,008	1,120
				o o														
		in ground		o o o	125	151	181	217	275	317	360	413	490	560	652	745	805	895
				o o o	191	231	277	345	418	481	538	613	717	812	902	1,007	1,089	1,210
		in air		o	147	178	215	268	327	377	425	486	574	653	742	839	871	968
				o	151	180	211	258	308	349	390	440	508	570	639	719	781	832
		in ground		o o o	116	138	164	201	239	272	304	345	400	451	512	575	624	665
				o o o	172	204	239	291	344	388	424	474	541	602	650	775	820	873
AC test voltage		kV/5 min	6.5															



## N2XS<sub>Y</sub>/NA2XS<sub>Y</sub>

### 3.6/6(7.2) kV

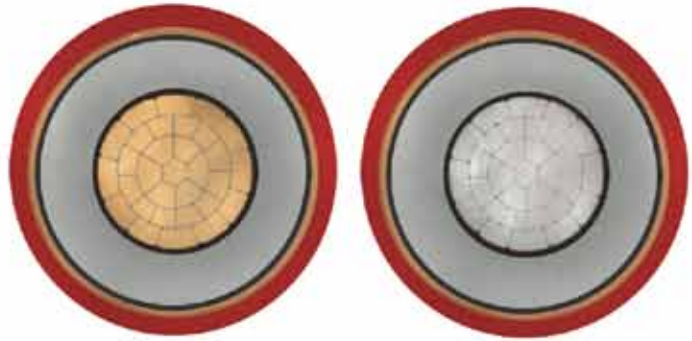
#### SPLN 43-5/IEC 60502-2

Copper/Aluminium conductor,  
XLPE insulated,  
with or without water sealing,  
Copper wire/ tape screened,  
PVC sheathed cable

#### DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area	mm <sup>2</sup>	25	35	50	70	95	120	150	185	240	300	400	500	630	800	
Conductor diameter (approx)	mm	6.05	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2	
Nominal insulation thickness	mm	2.5									2.6	2.8	3.0	3.2		
Insulation diameter (approx)	mm	12.5	13.5	14.7	16.3	18.1	19.5	20.7	22.7	24.8	27.9	31.9	36.0	39.7	43.2	
Nominal outer sheath thickness	mm	1.8									1.9	2.0	2.1	2.2	2.3	2.5
Overall cable diameter (approx)	mm	18.9	19.9	21.1	22.7	24.3	25.7	27.1	29.1	31.4	34.6	38.9	44.0	47.9	52.7	
Cable net weight ( approx)	CU	Kg/Km														
	AL	656	779	929	1,175	1,440	1,711	2,049	2,454	3,078	3,775	4,737	6,046	7,564	9,242	
Standard length per-reel	m	490	548	620	725	813	922	1,074	1,239	1,477	1,767	2,168	2,770	3,316	3,921	
Minimum bending radius	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500	
Max. DC conductor resistance at 20 °C	CU	Ω/Km														
	AL	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	0.0221	
Min. insulation resistance at 20 °C	MΩ.Km	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	
Capacitance per phase	μF/Km	900	800	700	600	500	500	500	400	400	400	400	300	300	300	
Inductance per phase	o	mH/Km														
	o o o	0.191	0.216	0.240	0.279	0.318	0.349	0.376	0.419	0.459	0.481	0.511	0.540	0.534	0.595	
Max.short circuit current of conductor	o	kA/sec														
	o o o	0.409	0.391	0.372	0.353	0.333	0.323	0.316	0.306	0.295	0.289	0.283	0.278	0.279	0.272	
Max.short circuit current of screen	o	kA/sec														
	o o o	0.594	0.575	0.556	0.538	0.518	0.508	0.501	0.491	0.480	0.474	0.468	0.463	0.464	0.457	
Maximum current carrying capacity at 30 °C	in air	o	A													
		o o	161	194	233	291	353	406	459	526	620	728	814	920	1,006	1,118
		o o o	124	150	180	213	274	316	358	411	488	558	650	743	803	893
		o o o o	190	230	276	344	417	480	536	611	715	810	900	1,005	1,087	1,209
	in ground	o	A													
		o o	146	177	214	267	326	376	423	484	572	651	740	837	870	967
		o o o	150	179	210	257	307	348	388	438	506	568	637	717	779	831
		o o o o	115	137	163	200	238	271	302	343	398	449	510	574	622	663
AC test voltage	kV/5 min	171	203	238	290	343	387	422	472	539	601	648	774	818	871	
		131	156	185	226	269	304	335	376	434	486	536	614	654	697	
								12.5 (IEC) , 9 (SPLN)								



## N2XSY/NA2XSY

### 6/10(12) kV

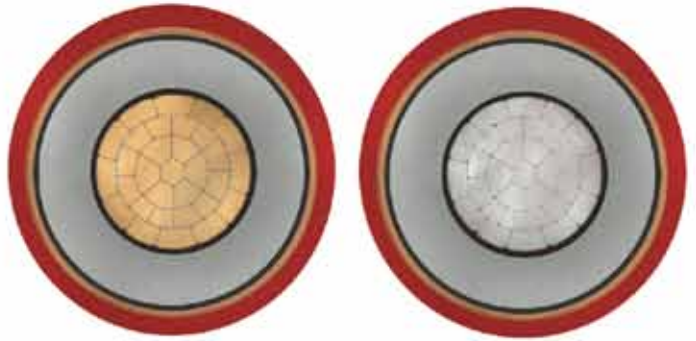
#### SPLN 43-5/IEC 60502-2

Copper/Aluminium conductor,  
XLPE insulated,  
with or without water sealing,  
Copper wire/tape screened,  
PVC sheathed cable

DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area	mm <sup>2</sup>	25	35	50	70	95	120	150	185	240	300	400	500	630	800	
Conductor diameter (approx)	mm	6.05	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2	
Nominal insulation thickness	mm	3.4														
Insulation diameter (approx)	mm	14.3	15.3	16.5	18.1	19.9	21.3	22.5	24.5	26.9	29.1	31.9	34.8	39.7	43.6	
Nominal outer sheath thickness	mm	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4	2.5	
Overall cable diameter (approx)	mm	20	21	23	24	26	28	29	31	34	36	39	42	48	52	
Cable net weight ( approx)	CU	700	800	1,000	1,200	1,500	1,700	2,100	2,500	3,100	3,700	4,600	5,700	7,300	9,100	
	AL	500	600	700	800	900	1,000	1,200	1,300	1,600	1,800	2,200	2,600	3,300	3,900	
Standard length per-reel	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500	
Minimum bending radius	mm	260	280	310	340	380	410	430	470	520	570	630	690	780	860	
Max. DC conductor resistance at 20 °C	CU	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	0.0221	
	AL	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	
Min. insulation resistance at 20 °C	MΩ.Km	1,100	1,000	900	800	700	600	500	500	400	400	400	400	300	300	
Capacitance per phase	µF/Km	0.161	0.181	0.200	0.230	0.261	0.286	0.306	0.341	0.382	0.420	0.467	0.517	0.534	0.572	
Inductance per phase	mH/Km	0.430	0.408	0.390	0.367	0.349	0.337	0.331	0.318	0.306	0.296	0.288	0.280	0.280	0.272	
		0.615	0.593	0.575	0.551	0.534	0.522	0.516	0.503	0.491	0.481	0.473	0.465	0.465	0.457	
Max.short circuit current of conductor	CU	3.73	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79	72.16	90.83	115.23	
	AL	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.26	22.98	28.67	38.14	47.60	59.90	75.96	
Max.short circuit current of screen		2.56	2.73	2.92	2.56	2.80	2.98	3.93	4.26	4.66	4.02	5.48	5.96	5.53	6.05	
Maximum current carrying capacity at 30 °C	in air	CU	162	195	234	292	354	407	460	527	621	729	815	921	1,007	1,119
		AL	125	151	181	217	275	317	359	412	489	559	651	744	804	894
		CU	191	231	277	345	418	481	537	612	716	811	901	1,006	1,088	1,210
		AL	147	178	215	268	327	377	424	485	573	652	741	838	871	968
	in ground	CU	151	180	211	258	308	349	389	439	507	569	638	718	780	832
		AL	116	138	164	201	239	272	303	344	399	450	511	574	623	664
		CU	172	204	239	2910	344	388	423	473	540	601	649	774	819	872
		AL	132	157	186	227	270	305	336	377	434	487	537	615	655	698
AC test voltage	kV/5 min	21 (IEC) , 15 (SPLN)														



## N2XSY/NA2XSY

### 8.7/15(17.5) kV

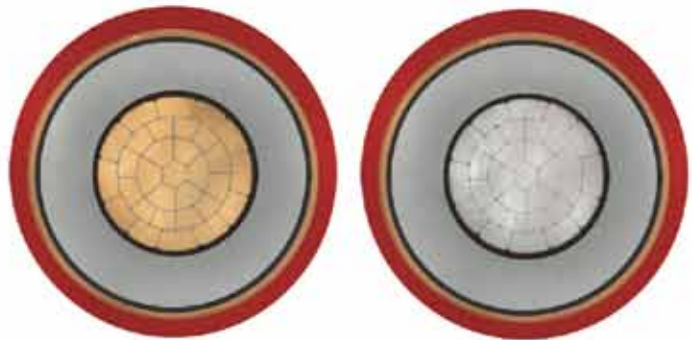
#### SPLN 43-5/IEC 60502-2

Copper/Aluminium conductor,  
XLPE insulated,  
with or without water sealing,  
Copper wire/tape screened,  
PVC sheathed cable

#### DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area		mm <sup>2</sup>	25	35	50	70	95	120	150	185	240	300	400	500	630	800	
Conductor diameter (approx)		mm	6.05	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2	
Nominal insulation thickness		mm	4.5														
Insulation diameter (approx)		mm	16.5	17.5	18.7	20.3	22.1	23.5	24.7	25.7	29.1	31.3	34.1	37.0	41.9	45.8	
Nominal outer sheath thickness		mm	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.3	2.3	2.5	2.6	
Overall cable diameter (approx)		mm	23	24	25	27	28	30	31	33	36	38	41	44	50	54	
Cable net weight ( approx)		CU	800	900	1,000	1,300	1,600	1,900	2,200	2,600	3,200	3,800	4,800	5,900	7,900	9,300	
		AL	600	700	800	900	1,000	1,100	1,300	1,500	1,700	1,900	2,400	2,800	3,500	4,200	
Standard length per-reel		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500	
Minimum bending radius		mm	290	310	330	360	400	430	460	500	550	590	650	710	810	880	
Max. DC conductor resistance at 20 °C		CU	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	0.0221	
		AL	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	
Min. insulation resistance at 20 °C		MΩ.Km	1,300	1,200	1,100	1,000	900	800	700	700	600	600	500	500	400	400	
Capacitance per phase		µF/Km	0.138	0.154	0.170	0.193	0.218	0.238	0.254	0.281	0.314	0.344	0.382	0.421	0.428	0.476	
Inductance per phase		mH/Km	0.452	0.428	0.407	0.386	0.365	0.354	0.345	0.332	0.318	0.308	0.300	0.291	0.280	0.280	
			0.637	0.613	0.592	0.570	0.550	0.538	0.530	0.517	0.503	0.493	0.485	0.475	0.475	0.465	
Max.short circuit current of conductor		CU	3.73	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79	72.16	90.83	115.23	
		AL	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14	47.60	59.90	75.96	
Max.short circuit current of screen			2.92	2.48	2.63	2.85	3.09	3.28	4.29	4.62	4.02	4.31	5.85	6.33	5.82	6.34	
Maximum current carrying capacity at 30 °C		in air	CU	162	199	238	296	358	412	466	532	627	715	819	927	1,009	1,121
			AL	125	155	184	229	278	320	363	415	493	563	652	746	806	896
			CU	191	233	279	347	420	483	540	614	718	813	904	1,011	1,090	1,201
			AL	147	180	217	240	328	378	425	485	513	652	740	838	873	970
		in ground	CU	151	181	214	262	312	353	394	445	513	577	647	720	782	834
			AL	116	139	166	203	242	276	307	348	404	455	517	576	625	666
			CU	172	205	240	292	347	391	427	478	546	608	659	776	821	874
			AL	132	158	187	228	271	307	339	380	439	491	543	617	657	701
AC test voltage		kV/5 min	30.5 (IEC) , 22 (SPLN)														



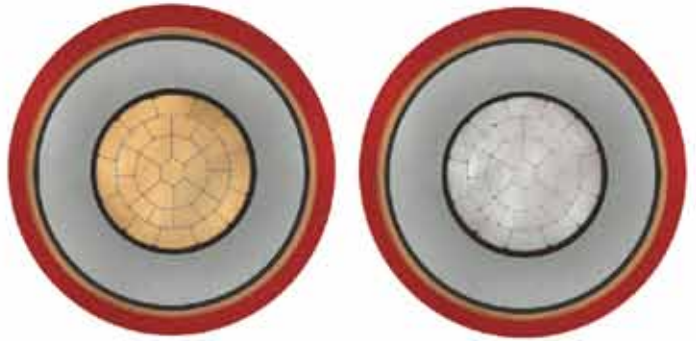
**N2XSY/NA2XSY**  
**12/20(24) kV**  
**SPLN 43-5/IEC 60502-2**

Copper/Aluminium conductor, XLPE insulated,  
with or without water sealing,  
Copper wire/tape screened,  
PVC sheathed cable

DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area	mm <sup>2</sup>	35	50	70	95	120	150	185	240	300	400	500	630	800	
Conductor diameter (approx)	mm	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2	
Nominal insulation thickness	mm	5.5													
Insulation diameter (approx)	mm	19.7	20.9	22.5	24.3	25.7	26.9	28.9	31.3	33.5	36.3	39.2	44.1	48.0	
Nominal outer sheath thickness	mm	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6	
Overall cable diameter (approx)	mm	26	27	29	31	32	34	36	38	40	44	47	53	58	
Cable net weight ( approx)	CU	1000	1,200	1,400	1,700	2,000	2,300	2,700	33	40	4,900	6,100	7,700	9,500	
	AL	800	900	1,000	1,100	1,300	1,400	1,600	1,800	2,100	2,500	3,000	3,700	4,400	
Standard length per-reel	m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	500	500	500	500	
Minimum bending radius	mm	330	350	390	420	450	480	520	570	610	670	730	830	920	
Max. DC conductor resistance at 20 °C	CU	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221	
	AL	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367	
Min. insulation resistance at 20 °C	MΩ.Km	1,400	1,300	1,100	1,000	900	900	800	700	700	600	600	500	400	
Capacitance per phase	µF/Km	0.136	0.149	0.169	0.190	0.206	0.220	0.243	0.270	0.294	0.326	0.358	0.370	0.410	
Inductance per phase	mH/Km	0.447	0.426	0.403	0.382	0.368	0.359	0.345	0.330	0.320	0.310	0.301	0.299	0.294	
		0.632	0.611	0.588	0.566	0.553	0.544	0.530	0.515	0.505	0.495	0.486	0.483	0.479	
Max.short circuit current of conductor	CU	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79	72.16	90.83	115.23	
	AL	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14	47.60	59.90	75.96	
Max.short circuit current of screen		2.77	2.92	3.14	3.38	3.57	4.66	3.99	4.31	4.60	6.21	6.69	7.01	7.43	
Maximum current carrying capacity at 30 °C	in air	o	199	238	296	358	412	466	532	627	715	819	927	1,009	1,121
		o o	155	184	229	278	320	363	415	493	63	652	746	806	896
		o o o	233	279	347	420	488	540	614	718	813	904	1,011	1,090	1,212
		o o o o	180	217	240	328	378	425	485	513	652	740	838	873	970
	in ground	o	181	214	262	312	353	394	445	513	577	647	720	782	834
		o o	139	165	3	242	276	307	348	404	455	517	576	625	666
		o o o	205	240	292	347	391	427	478	546	608	659	776	821	874
		o o o o	158	187	228	271	307	339	380	439	491	548	617	657	701
AC test voltage	kV/5 min	42 (IEC) , 30 (SPLN)													



# N2XSY/NA2XSY

## 18/30(36) kV

### IEC 60502-2

Copper/Aluminium conductor,  
XLPE insulated,  
Copper wire/tape screened,  
PVC sheathed cable

#### DIMENSIONAL AND ELECTRICAL DATA

1 CORE

Nominal cross-sectional area		mm <sup>2</sup>	50	70	95	120	150	185	240	300	400	500	630	800		
Conductor diameter (approx)		mm	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	26.6	30.3	34.2		
Nominal insulation thickness		mm	8.0													
Insulation diameter (approx)		mm	25.9	27.5	29.3	30.7	31.9	33.9	36.3	38.5	41.3	44.2	49.1	53.0		
Nominal outer sheath thickness		mm	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7	2.8		
Overall cable diameter (approx)		mm	32	34	36	37	39	41	43	46	49	52	58	62		
Cable net weight ( approx)		CU	1,400	1,700	2,000	2,300	2,600	3,100	3,700	4,400	5,300	6,400	8,200	10,000		
		AL	1,200	1,300	1,400	1,600	1,700	1,900	2,200	2,500	2,900	3,400	4,200	4,900		
Standard length per-reel		m	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	5000			500		
Minimum bending radius		mm	410	440	480	510	530	570	620	670	730	790	880	960		
Max. DC conductor resistance at 20 °C		CU	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	0.0221		
		AL	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469	0.0367		
Min. insulation resistance at 20 oC		MΩ.Km	1,600	1,500	1,300	1,200	1,200	1,100	1,000	900	800	700	600	600		
Capacitance per phase		µF/Km	0.121	0.136	0.151	0.163	0.173	0.190	0.209	0.227	0.250	0.274	0.288	0.317		
Inductance per phase		o	0.462	0.435	0.413	0.398	0.388	0.372	0.357	0.345	0.333	0.323	0.318	0.308		
		o o o o o	0.647	0.620	0.598	0.583	0.573	0.557	0.542	0.530	0.518	0.507	0.503	0.492		
Max.short circuit current of conductor		CU	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79	72.16	90.83	115.23		
		AL	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14	47.60	59.90	75.96		
Max.short circuit current of screen			3.59	3.81	4.04	4.23	4.39	4.66	4.97	5.26	5.64	6.02	6.78	7.29		
Maximum current carrying capacity at 30 °C		in air	o	241	299	362	416	469	536	630	717	823	929	1,010	1,122	
			o o	AL	187	232	281	323	365	418	494	564	654	747	807	897
			o o o	CU	279	348	421	483	540	615	718	812	904	1,011	1,091	1,213
		in ground	o	AL	217	270	328	378	425	485	572	649	737	838	874	971
			o o	CU	217	265	316	358	398	449	519	584	648	721	783	835
			o o o	AL	168	205	246	278	311	351	409	460	518	577	626	667
o o o	CU	241	294	348	394	431	483	553	615	660	778	822	875			
o o o	AL	188	228	273	309	341	384	443	495	544	618	658	702			
AC test voltage		kV/5 min	63													