



N2XSEY/NA2XSEY

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

3 CORES

Nominal cross-sectional area		mm ²	25	35	50	70	95	120	150	185	240	300	400
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
Nominal insulation thickness		mm	2.5										
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
Nominal outer sheath thickness		mm	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1
Overall cable diameter (approx)		mm	37	39	42	46	50	53	56	60	66	72	80
Cable net weight (approx)		CU	2,100	2,500	3,000	3,800	4,800	5,800	6,700	8,100	10,200	12,500	15,600
		AL	1,600	1,800	2,100	2,500	3,000	3,500	3,900	4,600	5,600	6,700	8,200
Standard length per-reel		m	500	500	500	500	500	500	500	500	500	500	350
Minimum bending radius		mm	320	350	380	420	460	500	530	570	640	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
		AL	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Min. insulation resistance at 20 °C		MΩ.Km	900	800	700	600	500	500	500	400	400	400	400
Capacitance per phase		µF/Km	0.191	0.216	0.240	0.279	0.318	0.349	0.376	0.419	0.459	0.481	0.511
Inductance per phase		mH/km	0.322	0.308	0.298	0.284	0.273	0.266	0.261	0.254	0.249	0.246	0.243
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
		AL	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14
Max.short circuit current of screen			1.90	2.05	2.21	2.44	2.69	2.89	3.05	3.33	3.70	4.06	4.51
Maximum current carrying capacity at 30 °C		in air		CU	134	175	207	258	315	362	413	473	557
		AL	103	133	160	200	241	280	317	363	413	474	597
in ground		CU	133	172	203	247	297	357	379	428	497	557	628
		AL	102	131	156	192	230	261	294	333	388	416	498
AC test voltage		kV/5 min	12.5 (IEC) , 9 (SPLN)										



N2XSEY/NA2XSEY

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

3 CORES

Nominal cross-sectional area		mm ²	25	35	50	70	95	120	150	185	240	300	400
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
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
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
Overall cable diameter (approx)		mm	41	43	46	50	54	57	60	64	70	75	81
Cable net weight (approx)	CU	Kg/Km	2,400	2,800	3,400	4,200	5,300	6,200	7,200	8,600	10,700	129,000	15,900
	AL	Kg/Km	1,900	2,200	250	2,900	3,400	3,900	4,400	5,100	6,100	7,100	8,500
Standard length per-reel		m	500	500	500	500	500	500	500	500	500	500	350
Minimum bending radius		mm	350	380	410	450	490	530	560	600	670	720	790
Max. DC conductor resistance at 20 °C	CU	Ω/Km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
	AL	Ω/Km	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Min. insulation resistance at 20 °C		MΩ.Km	1,100	1,000	900	800	700	600	600	500	500	400	400
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
Inductance per phase		mH/km	0.346	0.331	0.319	0.303	0.291	0.283	0.277	0.269	0.260	0.254	0.248
Max.short circuit current of conductor	CU	kA/sec	3.73	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79
	AL	kA/sec	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.26	22.98	28.67	38.14
Max.short circuit current of screen			2.15	2.61	2.77	3.00	3.25	3.44	3.61	3.89	4.23	4.53	4.92
Maximum current carrying capacity at 30 °C	in air	CU	135	175	208	259	316	363	414	474	558	634	766
		AL	1.4	134	161	201	242	281	318	364	425	485	598
	in ground	CU	134	173	204	248	298	338	380	429	498	558	630
		AL	103	132	157	193	231	262	295	334	389	417	499
AC test voltage		kV/5 min	21 (IEC) , 15 (SPLN)										



N2XSEY/NA2XSEY

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

3 CORES

Nominal cross-sectional area		mm ²	25	35	50	70	95	120	150	185	240	300	400	
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	
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	
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	
Overall cable diameter (approx)		mm	46	48	51	55	59	62	65	69	75	80	87	
Cable net weight (approx)		CU	2,500	3,800	4,400	5,300	6,400	7,400	8,500	10,000	12,200	14,400	17,500	
		AL	2,400	2,600	3,000	3,400	4,000	4,500	5,000	5,800	6,800	7,900	9,300	
Standard length per-reel		m	500	500	500	500	500	500	500	500	350	350	350	
Minimum bending radius		mm	390	410	440	490	530	560	600	640	700	760	830	
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	
		AL	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	
Min. insulation resistance at 20 °C		MΩ.Km	1,300	1,200	1,100	1,000	900	800	700	700	600	600	500	
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	
Inductance per phase		mH/km	0.372	0.355	0.341	0.324	0.310	0.301	0.294	0.285	0.275	0.268	0.261	
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	
		AL	2.49	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14	
Max.short circuit current of screen			2.46	2.61	2.77	3.00	3.25	3.44	3.61	3.89	4.23	4.53	4.92	
Maximum current carrying capacity at 30 °C		in air	CU	135	175	208	259	316	363	414	473	558	635	767
		AL	133	173	204	248	298	338	380	429	497	559	631	
in ground		CU	133	173	204	248	298	338	380	429	497	559	631	
		AL	103	133	155	188	225	257	286	324	376	418	500	
AC test voltage		kV/5 min	30.5 (IEC) , 22 (SPLN)											



N2XSEY/NA2XSEY
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

3 CORES

Nominal cross-sectional area	mm ²	35	50	70	95	120	150	185	240	300	400	
Conductor diameter (approx)	mm	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7	
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	
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	
Overall cable diameter (approx)	mm	53	56	60	64	67	70	75	80	85	91	
Cable net weight (approx)	CU	Kg/Km	1,400	1,300	1,100	1,000	900	900	800	700	700	600
	AL	Kg/Km	0.136	0.149	0.169	0.190	0.206	0.220	0.243	0.270	0.294	0.326
Standard length per-reel	m	500	500	500	500	350	350	350	350	350	300	
Minimum bending radius	mm	450	480	520	570	600	630	690	740	790	860	
Max. DC conductor resistance at 20 °C	CU	Ω/Km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
	AL	Ω/Km	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Min. insulation resistance at 20 °C	MΩ.Km	1,400	1,300	1,100	1,000	900	900	800	700	700	600	
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	
Inductance per phase	mH/km	0.393	0.374	0.353	0.335	0.323	0.315	0.303	0.292	0.28	0.274	
Max.short circuit current of conductor	CU	kA/sec	5.18	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79
	AL	kA/sec	3.45	4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14
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
Maximum current carrying capacity at 30 °C	in air	CU	175	208	259	316	364	414	474	558	635	767
		AL	140	163	201	244	283	321	368	429	486	599
in ground	CU	173	204	248	298	338	380	429	497	559	631	
	AL	133	155	193	230	263	295	334	389	44	500	
AC test voltage	kV/5 min	42 (IEC) , 30 (SPLN)										



N2XSEY/NA2XSEY

18/30(36) kV

IEC 60502-2

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

DIMENSIONAL AND ELECTRICAL DATA

3 CORES

Nominal cross-sectional area		mm ²	50	70	95	120	150	185	240	300	400
Conductor diameter (approx)		mm	8.25	9.9	11.7	13.1	14.3	16.3	18.2	20.9	23.7
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
Nominal outer sheath thickness		mm	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5
Overall cable diameter (approx)		mm	68	71	75	79	81	86	91	97	103
Cable net weight (approx)	CU	Kg/Km	5,800	6,800	8,000	9,000	10,100	11,800	14,000	16,500	19,700
	AL		4,900	5,500	6,100	6,700	7,300	8,300	9,400	10,700	12,300
Standard length per-reel		m	500	920	950	100	110	120	130	350	300
Minimum bending radius		mm	760	810	870	920	950	100	110	120	130
Max. DC conductor resistance at 20 °C	CU	Ω/Km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
	AL		0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Min. insulation resistance at 20 °C		MΩ.Km	1,600	1,500	1,300	1,200	1,200	1,100	1,000	900	800
Capacitance per phase		μF/Km	0.121	0.136	0.151	0.163	0.173	0.190	0.209	0.227	0.250
Inductance per phase		mH/km	0.402	0.381	0.363	0.352	0.343	0.330	0.317	0.308	0.297
Max.short circuit current of conductor	CU	kA/sec	7.36	10.26	13.88	17.49	21.81	26.86	34.78	43.41	57.79
	AL		4.89	6.81	9.19	11.58	14.43	17.76	22.98	28.67	38.14
Max.short circuit current of screen			3.77	4.00	4.25	4.45	4.62	4.9	559	5.54	5.93
Maximum current carrying capacity at 30 °C	in air	CU	209	260	317	364	415	475	599	636	768
		AL	164	207	248	286	323	368	480	487	600
	in ground	CU	205	249	299	339	381	430	498	560	632
		AL	156	189	226	258	287	325	377	419	501
AC test voltage		kV/5 min	63								