



**N2XSEFGbY/
NA2XSEYFGbY**
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,
Galvanized flat steel wire armoured,
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 flat wire armour thickness		mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Nominal outer sheath thickness		mm	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.6
Overall cable diameter (approx)		mm	40	42	45	49	53	56	59	64	70	76	84
Cable net weight (approx)	CU	Kg/Km	2900	3300	3,900	4,900	6,000	7,000	8,100	9,600	11,900	14,300	17,700
	AL		2400	2700	3,000	3,600	4,200	4,700	5,200	6,100	72,000	8,600	10,300
Standard length per-reel		m	500	500	500	500	500	500	500	500	350	350	350
Minimum bending radius		mm	350	370	400	440	490	520	550	600	670	730	810
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		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	0.358	0.339	0.325	0.307	0.293	0.284	0.277	0.268	0.261	0.258	0.253
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		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	133	172	205	256	312	359	409	468	552	627	758
		AL	102	132	159	198	239	277	314	360	420	479	591
	in ground	CU	132	170	201	245	294	334	375	424	492	552	623
		AL	101	130	155	190	228	259	291	330	384	412	493
AC test voltage		kV/5 min	12.5 (IEC) , 9 (SPLN)										



**N2XSEFGbY/
NA2XSEYFGbY**
6/10(12) kV
SPLN 43-5/IEC 60502-2

Copper/Aluminium conductor, XLPE insulated,
with or without water sealing,
Copper wire/tape screened, Galvanized flat
steel wire armoured,
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 flat wire armour thickness		mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
Nominal outer sheath thickness		mm	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.6	
Overall cable diameter (approx)		mm	44	46	49	53	57	61	64	68	74	79	86	
Cable net weight (approx)		CU	3,300	3,800	4,400	5,400	6,500	7,600	8,700	40,200	12,500	14,900	18,000	
		AL	2,800	3,100	3,500	4,100	4,700	5,300	5,900	6,800	7,900	9,100	10,600	
Standard length per-reel		m	500	500	500	500	500	500	500	500	350	350	350	
Minimum bending radius		mm	380	400	430	470	520	560	590	630	700	750	820	
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	1,100	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	0.382	0.362	0.346	0.326	0.310	0.300	0.293	0.283	0.273	0.265	0.258	
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	17.26	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	134	173	206	257	313	360	410	469	553	628	759
			AL	103	133	160	199	240	278	315	361	421	480	592
		in ground	CU	133	171	202	246	295	335	376	425	493	553	624
			AL	102	131	156	191	229	260	292	331	385	413	494
AC test voltage		kV/5 min	21 (IEC) , 15 (SPLN)											



**N2XSEFGbY/
NA2XSEYFGbY**
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,
Galvanized flat steel wire armoured,
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 flat wire armour thickness		mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Nominal outer sheath thickness		mm	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8		
Overall cable diameter (approx)		mm	49	52	55	58	63	66	69	74	79	85	91		
Cable net weight (approx)		CU	3,900	4,400	5,100	6,000	4,300	8,300	9,400	11,100	13,400	15,800	19,000		
		AL	3,400	3,800	4,200	4,700	5,400	6,100	6,600	7,600	8,700	10,000	11,600		
Standard length per-reel		m	500	500	500	500	500	500	350	350	350	350	350		
Minimum bending radius		mm	410	440	470	510	560	590	530	680	730	790	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		
		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	0.408	0.386	0.369	0.347	0.330	0.319	0.310	0.299	0.288	0.279	0.271		
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	134	173	206	257	313	360	410	469	553	629	760
				AL	103	139	161	204	245	282	319	365	425	481	593
		in ground		CU	132	171	202	246	295	335	376	4256	492	554	625
				AL	102	132	154	186	223	255	283	321	372	414	495
AC test voltage		kV/5 min	30.5 (IEC) , 22 (SPLN)												



**N2XSEFGbY/
NA2XSEYFGbY**
12/20(24) kV
SPLN 43-5/IEC 60502-2

**Copper/Aluminium conductor,
XLPE insulated,
with or without water sealing,
Copper wire/tape screened,
Galvanized flat steel wire armoured,
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 flat wire armour thickness		mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8		
Nominal outer sheath thickness		mm	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	4.0		
Overall cable diameter (approx)		mm	57	60	64	68	71	74	79	85	90	97		
Cable net weight (approx)		CU	5,000	5,700	6,800	8,000	9,100	10,300	11,900	14,300	16,700	20,100		
		AL	4,400	4,800	5,400	6,200	6,800	7,500	8,400	9,600	10,900	12,700		
Standard length per-reel		m	500	500	500	500	350	350	350	300	300	300		
Minimum bending radius		mm	480	510	550	600	630	660	720	780	830	910		
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		
		AL	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	0.408	0.389	0.367	0.348	0.335	0.327	0.314	0.302	0.292	0.282		
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		
		AL	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	173	206	257	313	360	410	469	553	629	760
				AL	139	161	199	242	280	318	365	425	481	593
		in ground		CU	171	202	246	295	335	376	425	492	554	625
				AL	132	154	191	228	260	292	331	385	437	495
AC test voltage		kV/5 min	42 (IEC) , 30(SPLN)											



**N2XSEFGbY/
NA2XSEFGbY**
18/30(36) kV
IEC 60502-2

Copper/Aluminium conductor,
XLPE insulated,
Copper wire/tape screened,
Galvanized flat steel wire armoured,
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 flat wire armour thickness		mm	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Nominal outer sheath thickness		mm	3.2	3.3	3.5	3.6	3.7	3.8	4.0	4.1	4.4
Overall cable diameter (approx)		mm	72	76	80	83	86	91	97	102	109
Cable net weight (approx)	CU	Kg/Km	7,500	8,600	10,000	11,200	12,400	14,100	16,600	19,200	22,700
	AL		6,600	7,300	8,100	8,900	9,500	10,600	11,900	13,400	15,300
Standard length per-reel		m	500	500	500	350	350	350	300	300	300
Minimum bending radius		mm	600	640	690	720	750	810	870	920	1,000
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	0.429	0.404	0.383	0.369	0.359	0.344	0.330	0.319	0.307
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	5.59	5.54	5.93
Maximum current carrying capacity at 30 °C	in air	CU	207	258	314	361	411	470	554	630	766
		AL	162	205	246	283	320	365	426	482	594
	in ground	CU	203	247	296	336	377	426	488	555	626
		AL	155	187	224	256	284	322	373	415	496
AC test voltage		kV/5 min	63								