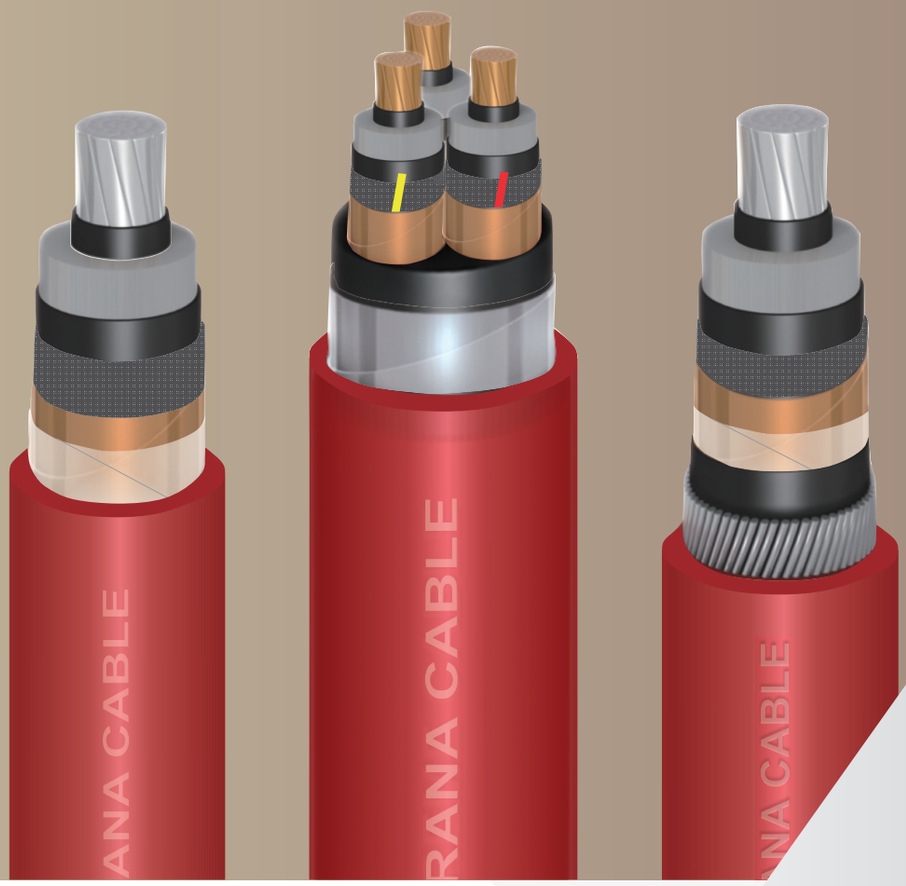
EXTRANA® CABLE

Quality Cables, Quality Living

MEDIUM VOLTAGE CABLES



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Second Edition 2023

EXTRANA® CABLE
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N2XSY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSY 3.6/6 (7.2) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
25	6,0	14,0	2,5	1,6	20,6	247	616	0,727	0,927	0,191
35	6,9	14,9	2,5	1,6	21,5	258	715	0,524	0,668	0,216
50	8,2	16,2	2,5	1,7	23,0	276	918	0,387	0,493	0,240
70	9,8	17,8	2,5	1,7	24,6	295	1147	0,268	0,342	0,279
95	11,6	19,6	2,5	1,8	26,6	319	1460	0,193	0,246	0,318
120	13,1	21,1	2,5	1,9	28,3	340	1731	0,153	0,195	0,349
150	14,3	22,3	2,5	1,9	29,5	354	1991	0,124	0,158	0,376
185	16,2	24,2	2,5	2,0	31,6	379	2394	0,0991	0,126	0,419
240	18,2	26,4	2,6	2,0	33,8	406	3047	0,0754	0,096	0,459
300	20,3	28,9	2,8	2,1	36,5	438	3520	0,0601	0,077	0,481
400	23,3	32,3	3,0	2,2	40,1	481	4615	0,0470	0,060	0,511
500	26,9	36,3	3,2	2,4	44,5	534	5805	0,0366	0,047	0,540
630	30,1	39,5	3,2	2,5	47,9	575	7087	0,0283	0,036	0,534
800	33,5	42,9	3,2	2,6	51,5	618	8962	0,0221	0,028	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	163	167	196	152	156	132	133	3,73	2,26
35	0,374	0,420	198	203	238	182	187	157	159	5,18	2,43
50	0,359	0,405	238	243	286	214	220	186	188	7,36	2,63
70	0,339	0,385	296	303	356	263	270	227	229	10,26	2,90
95	0,325	0,371	361	369	434	314	322	271	274	13,88	2,56
120	0,313	0,359	417	426	500	358	367	308	311	17,49	2,75
150	0,302	0,348	473	481	559	401	411	343	347	21,81	3,63
185	0,295	0,341	543	550	637	452	463	387	391	26,86	3,96
240	0,288	0,334	641	647	745	523	536	447	453	34,78	4,39
300	0,282	0,329	735	741	846	590	603	504	510	43,41	4,82
400	0,276	0,323	845	864	938	669	684	564	571	57,79	5,35
500	0,271	0,318	974	999	1087	755	772	669	684	72,16	5,90
630	0,265	0,311	1006	1146	1231	779	864	721	741	90,83	6,84
800	0,272	0,457	1118	1209	1280	831	871	784	820	115,23	6,99

EXTRANA® CABLE
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N2XSY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSY 6/10 (12) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	15,8	3,4	1,7	22,6	271	696	0,727	0,927	0,161
35	6,9	16,7	3,4	1,7	23,5	282	798	0,524	0,668	0,181
50	8,2	18,0	3,4	1,7	24,8	298	993	0,387	0,493	0,200
70	9,8	19,6	3,4	1,8	26,6	319	1241	0,268	0,342	0,230
95	11,6	21,4	3,4	1,9	28,6	343	1560	0,193	0,246	0,261
120	13,1	22,9	3,4	1,9	30,1	361	1822	0,153	0,195	0,286
150	14,3	24,1	3,4	2,0	31,5	378	2102	0,124	0,158	0,306
185	16,2	26,0	3,4	2,0	33,4	401	2494	0,0991	0,126	0,341
240	18,2	28,0	3,4	2,1	35,6	427	3161	0,0754	0,096	0,382
300	20,3	30,1	3,4	2,2	37,9	455	3617	0,0601	0,077	0,420
400	23,3	33,1	3,4	2,3	41,1	493	4692	0,0470	0,060	0,467
500	26,9	36,7	3,4	2,4	44,9	539	5835	0,0366	0,047	0,517
630	30,1	39,9	3,4	2,5	48,3	580	7120	0,0283	0,036	0,514
800	33,5	43,3	3,4	2,6	51,9	623	8997	0,0221	0,028	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	163	167	196	152	156	132	133	3,73	2,56
35	0,393	0,440	198	203	238	182	187	157	159	5,18	2,73
50	0,377	0,423	238	243	286	215	220	186	188	7,36	2,92
70	0,355	0,402	296	303	356	263	270	227	229	10,26	2,56
95	0,340	0,387	361	369	434	314	322	271	274	13,88	2,80
120	0,327	0,373	417	426	500	358	367	308	311	17,49	2,98
150	0,318	0,364	473	481	559	401	411	343	347	21,81	3,93
185	0,308	0,354	543	550	637	453	463	387	391	26,86	4,26
240	0,298	0,344	641	649	745	524	536	447	453	34,78	4,66
300	0,290	0,336	735	744	846	590	603	504	510	43,41	4,02
400	0,281	0,327	845	867	938	670	685	564	571	57,79	5,48
500	0,273	0,320	975	1001	1087	756	772	669	684	72,16	5,96
630	0,267	0,313	1007	1148	1231	832	865	721	741	90,83	5,53
800	0,272	0,457	1119	1210	1280	847	872	784	820	115,23	6,05

EXTRANA® CABLE
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N2XSY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSY 8,7/15(17,5) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	18,0	4,5	1,7	24,8	298	787	0,727	0,927	0,138
35	6,9	18,9	4,5	1,8	25,9	311	906	0,524	0,668	0,154
50	8,2	20,2	4,5	1,8	27,2	326	1107	0,387	0,493	0,170
70	9,8	21,8	4,5	1,9	29,0	348	1362	0,268	0,342	0,193
95	11,6	23,6	4,5	1,9	30,8	370	1674	0,193	0,246	0,218
120	13,1	25,1	4,5	2,0	32,5	390	1957	0,153	0,195	0,238
150	14,3	26,3	4,5	2,0	33,7	404	2226	0,124	0,158	0,254
185	16,2	28,2	4,5	2,1	35,8	430	2643	0,0991	0,126	0,281
240	18,2	30,2	4,5	2,2	38,0	456	3320	0,0754	0,096	0,314
300	20,3	32,3	4,5	2,2	40,1	481	3763	0,0601	0,077	0,344
400	23,3	35,3	4,5	2,3	43,3	520	4850	0,0470	0,060	0,372
500	26,9	38,9	4,5	2,5	47,3	568	6032	0,0366	0,047	0,384
630	30,1	42,1	4,5	2,6	50,7	608	7331	0,0283	0,036	0,423
800	33,5	45,5	4,5	2,7	54,3	652	9223	0,0221	0,028	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	⁂	●●●	⁂	●●●	● ● ●	⁂	●●●	⁂	●●●		
mm²	mH/km	mH/km	A			A		A		kA/sec	kA/sec
25	0,437	0,484	163	167	196	152	156	132	133	3,73	2,56
35	0,415	0,416	198	203	238	182	187	157	159	5,18	2,73
50	0,398	0,444	238	243	286	215	220	186	188	7,36	2,92
70	0,373	0,419	296	303	356	263	270	227	229	10,26	2,56
95	0,358	0,405	361	369	434	314	322	271	274	13,88	2,80
120	0,345	0,391	417	426	500	358	367	308	311	17,49	2,98
150	0,335	0,381	473	482	559	401	411	343	347	21,81	3,93
185	0,325	0,371	543	553	637	452	463	387	391	26,86	4,26
240	0,312	0,359	641	653	745	524	536	447	453	34,78	4,66
300	0,304	0,350	735	749	846	590	603	504	510	43,41	4,02
400	0,294	0,340	850	872	938	670	684	564	571	57,79	5,48
500	0,285	0,331	982	1007	1087	757	774	669	684	72,16	5,96
630	0,277	0,324	1009	1155	1231	834	868	721	741	90,83	5,53
800	0,280	0,465	1127	1201	1280	850	874	784	820	115,23	6,34

EXTRANA® CABLE
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N2XSY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSY 12/20 (24) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
35	6,9	20,9	5,5	1,8	27,9	335	999	0,524	0,668	0,136
50	8,2	22,2	5,5	1,9	29,4	353	1220	0,387	0,493	0,149
70	9,8	23,8	5,5	1,9	31,0	372	1466	0,268	0,342	0,169
95	11,6	25,6	5,5	2,0	33,0	396	1800	0,193	0,246	0.190
120	13,1	27,1	5,5	2,1	34,7	416	2091	0,153	0,195	0,206
150	14,3	28,3	5,5	2,1	35,9	431	2364	0,124	0,158	0,220
185	16,2	30,2	5,5	2,2	38,0	456	2790	0,0991	0,126	0,243
240	18,2	32,2	5,5	2,2	40,0	480	3453	0,0754	0,096	0,270
300	20,3	34,3	5,5	2,3	42,3	508	3926	0,0601	0,077	0,294
400	23,3	37,3	5,5	2,4	45,5	546	5025	0,0470	0,060	0,326
500	26,9	40,9	5,5	2,5	49,3	592	6196	0,0366	0,047	0,358
630	30,1	44,1	5,5	2,7	52,9	635	7534	0,0283	0,036	0,370
800	33,5	47,5	5,5	2,8	56,5	678	9440	0,0221	0,028	0,410

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	200	204	238	182	187	157	159	5,18	2,73
50	0,413	0,459	238	243	286	214	220	186	188	7,36	2,92
70	0,390	0,437	297	304	356	263	270	227	229	10,26	2,56
95	0,373	0,419	361	369	434	314	322	271	274	13,88	2,80
120	0,360	0,407	417	427	500	358	367	308	311	17,49	2,98
150	0,348	0,394	474	486	559	401	411	343	347	21,81	3,93
185	0,337	0,384	543	556	637	452	463	387	391	26,86	4,26
240	0,325	0,371	641	657	745	524	536	447	453	34,78	4,66
300	0,315	0,361	735	753	846	590	604	504	510	43,41	4,02
400	0,304	0,350	855	876	938	672	686	564	571	57,79	5,48
500	0,294	0,341	987	1011	1087	759	775	669	684	72,16	5,96
630	0,286	0,332	1121	1160	1231	834	871	721	741	90,83	5,53
800	0,294	0,479	1133	1212	1280	853	874	784	820	115,23	7,43

N2XSY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSY 18/30 (36) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
50	8,2	27,2	8,0	2,1	34,8	418	1530	0,387	0,493	0,121
70	9,8	28,8	8,0	2,1	36,4	437	1791	0,268	0,342	0,136
95	11,6	30,6	8,0	2,2	38,4	461	2144	0,193	0,246	0,151
120	13,1	32,1	8,0	2,2	39,9	479	2430	0,153	0,195	0,163
150	14,3	33,3	8,0	2,3	41,3	496	2735	0,124	0,158	0,173
185	16,2	35,2	8,0	2,3	43,2	518	3158	0,0991	0,126	0,190
240	18,2	37,2	8,0	2,4	45,4	545	3862	0,0754	0,096	0,209
300	20,3	39,3	8,0	2,5	47,7	572	4357	0,0601	0,077	0,227
400	23,3	42,3	8,0	2,6	50,9	611	5486	0,0470	0,060	0,250
500	26,9	45,9	8,0	2,7	54,7	656	6692	0,0366	0,047	0,274
630	30,1	49,1	8,0	2,8	58,1	697	8034	0,0283	0,036	0,288
800	33,5	52,5	8,0	2,9	61,7	740	9971	0,0221	0,028	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	243	249	286	214	220	186	188	7,36	2,92
70	0,428	0,474	303	310	356	263	270	227	229	10,26	2,56
95	0,406	0,453	367	375	434	314	322	271	274	13,88	2,80
120	0,393	0,439	423	433	500	358	367	308	311	17,49	2,98
150	0,381	0,427	481	492	559	401	411	343	347	21,81	3,93
185	0,368	0,414	550	563	637	452	463	387	391	26,86	4,26
240	0,354	0,400	649	664	745	524	536	447	453	34,78	4,66
300	0,344	0,390	742	760	846	591	603	504	510	43,41	4,02
400	0,329	0,375	863	883	938	673	687	564	571	57,79	5,48
500	0,320	0,366	995	1018	1,087	762	777	669	684	72,16	5,96
630	0,306	0,352	1122	1168	1231	783	835	721	741	90,83	5,53
800	0,308	0,492	1143	1213	1280	858	875	784	820	115,23	7,29

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSY 3.6/6 (7.2) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	14,0	2,5	1,6	20,6	247	454	1,200	1,539	0,191
35	6,9	14,9	2,5	1,6	21,5	258	502	0,868	1,113	0,216
50	8,2	16,2	2,5	1,7	23,0	276	596	0,641	0,822	0,240
70	9,8	17,8	2,5	1,7	24,6	295	697	0,443	0,568	0,279
95	11,6	19,6	2,5	1,8	26,6	319	837	0,320	0,410	0,318
120	13,1	21,1	2,5	1,9	28,3	340	958	0,253	0,324	0,349
150	14,3	22,3	2,5	1,9	29,5	354	1063	0,206	0,264	0,376
185	16,2	24,2	2,5	2,0	31,6	379	1236	0,164	0,210	0,419
240	18,2	26,4	2,6	2,0	33,8	406	1548	0,125	0,160	0,459
300	20,3	28,9	2,8	2,1	36,5	438	1701	0,100	0,128	0,481
400	23,3	32,3	3,0	2,2	40,1	481	2133	0,0778	0,100	0,511
500	26,9	36,3	3,2	2,4	44,5	534	2630	0,0605	0,078	0,540
630	30,1	39,5	3,2	2,5	47,9	575	3115	0,0469	0,060	0,534
800	33,5	42,9	3,2	2,6	51,5	618	3787	0,0367	0,047	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	127	130	153	117	121	102	103	2,49	2,26
35	0,374	0,420	154	157	185	141	145	122	123	3,45	2,43
50	0,359	0,405	184	189	222	166	171	144	146	4,89	2,63
70	0,339	0,385	230	236	278	204	210	176	178	6,81	2,90
95	0,325	0,371	280	287	338	244	251	210	213	9,19	2,56
120	0,313	0,359	324	332	391	278	285	240	242	11,58	2,75
150	0,302	0,348	368	376	440	311	319	267	271	14,43	3,63
185	0,295	0,341	424	432	504	353	362	303	307	17,76	3,96
240	0,288	0,334	502	511	593	409	419	351	356	22,98	4,39
300	0,282	0,329	577	586	677	461	473	397	402	28,67	4,82
400	0,276	0,323	673	684	769	529	542	451	457	38,14	5,35
500	0,271	0,318	782	796	881	603	618	527	533	47,60	5,90
630	0,265	0,311	893	939	1024	663	697	615	621	59,90	6,84
800	0,272	0,457	922	976	1059	690	706	645	655	75,96	6,99

NA2XSY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSY 6/10 (12) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
25	6,0	15,8	3,4	1,7	22,6	271	534	1,200	1,539	0,161
35	6,9	16,7	3,4	1,7	23,5	282	585	0,868	1,113	0,181
50	8,2	18,0	3,4	1,7	24,8	298	671	0,641	0,822	0,200
70	9,8	19,6	3,4	1,8	26,6	319	791	0,443	0,568	0,230
95	11,6	21,4	3,4	1,9	28,6	343	938	0,320	0,410	0,216
120	13,1	22,9	3,4	1,9	30,1	361	1049	0,253	0,324	0,286
150	14,3	24,1	3,4	2,0	31,5	378	1174	0,206	0,264	0,306
185	16,2	26,0	3,4	2,0	33,4	401	1337	0,164	0,210	0,341
240	18,2	28,0	3,4	2,1	35,6	427	1662	0,125	0,160	0,382
300	20,3	30,1	3,4	2,2	37,9	455	1797	0,100	0,128	0,420
400	23,3	33,1	3,4	2,3	41,1	493	2210	0,0778	0,100	0,467
500	26,9	36,7	3,4	2,4	44,9	539	2661	0,0605	0,078	0,517
630	30,1	39,9	3,4	2,5	48,3	580	3148	0,0469	0,060	0,514
800	33,5	43,3	3,4	2,6	51,9	623	3822	0,0367	0,047	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30ºC (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	127	130	153	118	121	102	103	2,49	2,56
35	0,393	0,440	154	157	185	141	145	122	123	3,45	2,73
50	0,377	0,423	184	189	222	166	171	144	146	4,89	2,92
70	0,355	0,402	230	236	278	204	210	176	178	6,81	2,56
95	0,340	0,387	280	287	338	244	251	210	213	9,19	2,80
120	0,327	0,373	324	332	391	278	285	240	242	11,58	2,98
150	0,318	0,364	368	376	440	311	319	267	271	14,43	3,93
185	0,308	0,354	424	432	504	353	362	303	307	17,76	4,26
240	0,298	0,344	502	511	593	409	419	351	356	22,98	4,66
300	0,290	0,336	577	586	677	461	473	397	402	28,67	4,02
400	0,281	0,327	673	686	769	530	542	451	457	38,14	5,48
500	0,273	0,320	782	797	881	603	618	527	533	47,60	5,96
630	0,267	0,313	894	940	1024	664	698	615	621	59,90	5,53
800	0,272	0,457	922	968	1059	690	706	645	655	75,96	6,05

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSY 8,7/15(17,5) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
25	6,0	18,0	4,5	1,7	24,8	298	625	1,200	1,539	0,138
35	6,9	18,9	4,5	1,8	25,9	311	693	0,868	1,113	0,154
50	8,2	20,2	4,5	1,8	27,2	326	784	0,641	0,822	0,170
70	9,8	21,8	4,5	1,9	29,0	348	912	0,443	0,568	0,193
95	11,6	23,6	4,5	1,9	30,8	370	1051	0,320	0,410	0,218
120	13,1	25,1	4,5	2,0	32,5	390	1185	0,253	0,324	0,238
150	14,3	26,3	4,5	2,0	33,7	404	1298	0,206	0,264	0,254
185	16,2	28,2	4,5	2,1	35,8	430	1486	0,164	0,210	0,281
240	18,2	30,2	4,5	2,2	38,0	456	1820	0,125	0,160	0,314
300	20,3	32,3	4,5	2,2	40,1	481	1944	0,100	0,128	0,344
400	23,3	35,3	4,5	2,3	43,3	520	2369	0,0778	0,100	0,372
500	26,9	38,9	4,5	2,5	47,3	568	2858	0,0605	0,078	0,384
630	30,1	42,1	4,5	2,6	50,7	608	3359	0,0469	0,060	0,423
800	33,5	45,5	4,5	2,7	54,3	652	4048	0,0367	0,047	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30ºC (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,437	0,484	127	130	153	118	121	102	103	2,49	2,56
35	0,415	0,416	154	157	185	141	145	122	123	3,45	2,73
50	0,398	0,444	184	189	222	166	171	144	146	4,89	2,92
70	0,373	0,419	230	236	278	204	210	176	178	6,81	2,56
95	0,358	0,405	280	287	338	244	251	210	213	9,19	2,80
120	0,345	0,391	324	332	391	278	285	240	242	11,58	2,98
150	0,335	0,381	368	376	440	311	319	267	271	14,43	3,93
185	0,325	0,371	424	432	504	353	362	303	307	17,76	4,26
240	0,312	0,359	502	511	593	409	419	351	356	22,98	4,66
300	0,304	0,350	577	586	677	461	473	397	402	28,67	4,02
400	0,294	0,340	673	689	769	530	542	451	457	38,14	5,48
500	0,285	0,331	782	800	881	603	618	527	533	47,60	5,96
630	0,277	0,324	896	943	1024	666	701	615	621	59,90	5,53
800	0,280	0,465	922	970	1059	691	707	645	655	75,96	6,34

NA2XSY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSY 12/20 (24) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
35	6,9	20,9	5,5	1,8	27,9	335	787	0,868	1,113	0,136
50	8,2	22,2	5,5	1,9	29,4	353	897	0,641	0,822	0,149
70	9,8	23,8	5,5	1,9	31,0	372	1015	0,443	0,568	0,169
95	11,6	25,6	5,5	2,0	33,0	396	1178	0,320	0,410	0.190
120	13,1	27,1	5,5	2,1	34,7	416	1318	0,253	0,324	0,206
150	14,3	28,3	5,5	2,1	35,9	431	1435	0,206	0,264	0,220
185	16,2	30,2	5,5	2,2	38,0	456	1632	0,164	0,210	0,243
240	18,2	32,2	5,5	2,2	40,0	480	1953	0,125	0,160	0,270
300	20,3	34,3	5,5	2,3	42,3	508	2106	0,100	0,128	0,294
400	23,3	37,3	5,5	2,4	45,5	546	2543	0,0778	0,100	0,326
500	26,9	40,9	5,5	2,5	49,3	592	3022	0,0605	0,078	0,358
630	30,1	44,1	5,5	2,7	52,9	635	3562	0,0469	0,060	0,370
800	33,5	47,5	5,5	2,8	56,5	678	4265	0,0367	0,047	0,410

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30ºC (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	154	158	185	141	145	122	123	3,45	2,73
50	0,413	0,459	184	189	222	166	171	144	146	4,89	2,92
70	0,390	0,437	230	236	278	204	210	176	178	6,81	2,56
95	0,373	0,419	280	287	338	244	251	210	213	9,19	2,80
120	0,360	0,407	324	332	391	278	285	240	242	11,58	2,98
150	0,348	0,394	368	376	440	311	319	267	271	14,43	3,93
185	0,337	0,384	424	433	504	353	362	303	307	17,76	4,26
240	0,325	0,371	502	512	593	409	419	351	356	22,98	4,66
300	0,315	0,361	577	587	677	461	473	397	402	28,67	4,02
400	0,304	0,350	674	692	769	530	542	451	457	38,14	5,48
500	0,294	0,341	782	802	881	604	618	527	533	47,60	5,96
630	0,286	0,332	896	945	1024	666	701	615	621	59,90	5,53
800	0,294	0,479	922	970	1059	692	708	645	655	75,96	7,43

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSY 18/30 (36) kV are normally used for power stations and switchgear and stations because of the small bending radius in confined indoor areas. They are used as underground cables when installation conditions are limited, and overhead lines are not available.

The conductors are compacted stranded (cm) with cross-sectional area 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
50	8,2	27,2	8,0	2,1	34,8	418	1208	0,641	0,822	0,121
70	9,8	28,8	8,0	2,1	36,4	437	1340	0,443	0,568	0,136
95	11,6	30,6	8,0	2,2	38,4	461	1522	0,320	0,410	0,151
120	13,1	32,1	8,0	2,2	39,9	479	1658	0,253	0,324	0,163
150	14,3	33,3	8,0	2,3	41,3	496	1807	0,206	0,264	0,173
185	16,2	35,2	8,0	2,3	43,2	518	2000	0,164	0,210	0,190
240	18,2	37,2	8,0	2,4	45,4	545	2363	0,125	0,160	0,209
300	20,3	39,3	8,0	2,5	47,7	572	2537	0,100	0,128	0,227
400	23,3	42,3	8,0	2,6	50,9	611	3004	0,0778	0,100	0,250
500	26,9	45,9	8,0	2,7	54,7	656	3518	0,0605	0,078	0,274
630	30,1	49,1	8,0	2,8	58,1	697	4061	0,0469	0,060	0,288
800	33,5	52,5	8,0	2,9	61,7	740	4796	0,0367	0,047	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30ºC (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	188	192	222	166	171	144	146	4,89	2,92
70	0,428	0,474	235	241	278	204	210	176	178	6,81	2,56
95	0,406	0,453	285	292	338	244	251	210	213	9,19	2,80
120	0,393	0,439	328	336	391	278	285	240	242	11,58	2,98
150	0,381	0,427	372	381	440	311	319	267	271	14,43	3,93
185	0,368	0,414	428	438	504	353	362	303	307	17,76	4,26
240	0,354	0,400	504	516	593	409	419	351	356	22,98	4,66
300	0,344	0,390	577	592	677	461	473	397	402	28,67	4,02
400	0,329	0,375	679	695	769	530	542	451	457	38,14	5,48
500	0,320	0,366	787	806	881	604	618	527	533	47,60	5,96
630	0,306	0,352	897	948	1024	667	702	615	621	59,90	5,53
800	0,308	0,492	925	971	1059	693	708	645	655	75,96	7,29

N2XSR(AI)Y

Copper conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSR(AI)Y 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	14,0	2,5	1,8	27,9	446	1057	0,727	0,927	0,191
35	6,9	14,9	2,5	1,9	28,5	456	1151	0,524	0,668	0,216
50	8,2	16,2	2,5	1,9	29,8	476	1363	0,387	0,493	0,240
70	9,8	17,8	2,5	2,0	31,6	505	1637	0,268	0,342	0,279
95	11,6	19,6	2,5	2,0	33,4	534	1965	0,193	0,246	0,318
120	13,1	21,1	2,5	2,1	35,9	574	2340	0,153	0,195	0,349
150	14,3	22,3	2,5	2,1	37,1	593	2626	0,124	0,158	0,376
185	16,2	24,2	2,5	2,2	39,2	627	3070	0,0991	0,126	0,419
240	18,2	26,4	2,6	2,3	41,6	665	3787	0,0754	0,096	0,459
300	20,3	28,9	2,8	2,4	44,4	710	4327	0,0601	0,077	0,481
400	23,3	32,3	3,0	2,5	49,1	786	5638	0,0470	0,060	0,511
500	26,9	36,3	3,2	2,7	53,7	859	6959	0,0366	0,047	0,540
630	30,1	39,5	3,2	2,8	57,2	915	8327	0,0283	0,036	0,534
800	33,5	42,9	3,2	2,9	60,9	974	10303	0,0221	0,028	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	167	171	196	154	157	132	133	3,73	2,26
35	0,374	0,420	202	207	238	184	188	157	159	5,18	2,43
50	0,359	0,405	241	246	286	216	221	186	188	7,36	2,63
70	0,339	0,385	300	306	356	264	269	227	229	10,26	2,90
95	0,325	0,371	363	370	434	313	318	271	274	13,88	2,56
120	0,313	0,359	417	424	500	355	359	308	311	17,49	2,75
150	0,302	0,348	473	481	559	395	399	343	347	21,81	3,63
185	0,295	0,341	543	550	637	442	445	387	391	26,86	3,96
240	0,288	0,334	641	647	745	501	499	447	453	34,78	4,39
300	0,282	0,329	735	739	846	555	550	504	510	43,41	4,82
400	0,276	0,323	845	847	938	617	607	564	571	57,79	5,35
500	0,271	0,318	974	999	1087	755	772	669	684	72,16	5,90
630	0,265	0,311	1006	1146	1231	779	864	721	741	90,83	6,84
800	0,272	0,457	1118	1209	1280	831	871	784	820	115,23	6,99

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSR(AI)Y

Copper conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSR(AI)Y 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	15,8	3,4	1,9	29,9	478	1172	0,727	0,927	0,161
35	6,9	16,7	3,4	1,9	30,3	484	1252	0,524	0,668	0,181
50	8,2	18,0	3,4	2,0	31,8	508	1485	0,387	0,493	0,200
70	9,8	19,6	3,4	2,0	33,4	534	1747	0,268	0,342	0,230
95	11,6	21,4	3,4	2,1	36,2	579	2180	0,193	0,246	0,261
120	13,1	22,9	3,4	2,2	37,9	606	2489	0,153	0,195	0,286
150	14,3	24,1	3,4	2,2	39,1	625	2779	0,124	0,158	0,306
185	16,2	26,0	3,4	2,3	41,2	659	3223	0,0991	0,126	0,341
240	18,2	28,0	3,4	2,3	43,2	691	3911	0,0754	0,096	0,382
300	20,3	30,1	3,4	2,5	46,8	749	4572	0,0601	0,077	0,420
400	23,3	33,1	3,4	2,6	50,1	802	5739	0,0470	0,060	0,467
500	26,9	36,7	3,4	2,7	54,1	866	6993	0,0366	0,047	0,517
630	30,1	39,9	3,4	2,8	57,6	922	8376	0,0283	0,036	0,514
800	33,5	43,3	3,4	2,9	61,3	981	10355	0,0221	0,028	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	169	172	196	154	157	132	133	3,73	2,56
35	0,393	0,440	204	209	238	184	188	157	159	5,18	2,73
50	0,377	0,423	243	248	286	216	221	186	188	7,36	2,92
70	0,355	0,402	302	308	356	264	269	227	229	10,26	2,56
95	0,340	0,387	365	372	434	313	318	271	274	13,88	2,80
120	0,327	0,373	419	426	500	355	359	308	311	17,49	2,98
150	0,318	0,364	475	481	559	395	399	343	347	21,81	3,93
185	0,308	0,354	543	550	637	442	445	387	391	26,86	4,26
240	0,298	0,344	641	647	745	501	499	447	453	34,78	4,66
300	0,290	0,336	735	739	846	555	550	504	510	43,41	4,02
400	0,281	0,327	845	847	938	617	607	564	571	57,79	5,48
500	0,273	0,320	974	999	1087	755	772	669	684	72,16	5,96
630	0,267	0,313	1007	1148	1231	832	865	721	741	90,83	5,53
800	0,272	0,457	1119	1210	1280	847	872	784	820	115,23	6,05

N2XSR(AI)Y

Copper conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSR(AI)Y 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	18,0	4,5	2,0	32,3	516	1320	0,727	0,927	0,138
35	6,9	18,9	4,5	2,0	32,7	523	1401	0,524	0,668	0,154
50	8,2	20,2	4,5	2,1	35,0	560	1715	0,387	0,493	0,170
70	9,8	21,8	4,5	2,1	36,6	585	1985	0,268	0,342	0,193
95	11,6	23,6	4,5	2,2	38,6	617	2354	0,193	0,246	0,218
120	13,1	25,1	4,5	2,2	40,1	641	2649	0,153	0,195	0,238
150	14,3	26,3	4,5	2,3	41,5	664	2965	0,124	0,158	0,254
185	16,2	28,2	4,5	2,4	43,6	697	3418	0,0991	0,126	0,281
240	18,2	30,2	4,5	2,5	46,9	750	4276	0,0754	0,096	0,314
300	20,3	32,3	4,5	2,5	49,1	786	4786	0,0601	0,077	0,344
400	23,3	35,3	4,5	2,6	52,4	838	5953	0,0470	0,060	0,372
500	26,9	38,9	4,5	2,8	56,6	906	7266	0,0366	0,047	0,384
630	30,1	42,1	4,5	2,9	60,1	962	8652	0,0283	0,036	0,423
800	33,5	45,5	4,5	3,0	63,8	1021	10647	0,0221	0,028	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,437	0,484	170	174	196	154	157	132	133	3,73	2,56
35	0,415	0,416	206	211	238	184	188	157	159	5,18	2,73
50	0,398	0,444	245	250	286	216	221	186	188	7,36	2,92
70	0,373	0,419	304	310	356	264	269	227	229	10,26	2,56
95	0,358	0,405	367	373	434	313	318	271	274	13,88	2,80
120	0,345	0,391	422	427	500	355	359	308	311	17,49	2,98
150	0,335	0,381	477	482	559	395	399	343	347	21,81	3,93
185	0,325	0,371	543	550	637	442	445	387	391	26,86	4,26
240	0,312	0,359	641	647	745	501	499	447	453	34,78	4,66
300	0,304	0,350	735	739	846	555	550	504	510	43,41	4,02
400	0,294	0,340	845	847	938	617	607	564	571	57,79	5,48
500	0,285	0,331	974	999	1087	755	772	669	684	72,16	5,96
630	0,277	0,324	1009	1155	1231	834	868	721	741	90,83	5,53
800	0,280	0,465	1127	1201	1280	850	874	784	820	115,23	6,34

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSR(Al)Y

Copper conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSR(Al)Y 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
35	6,9	20,9	5,5	2,1	35,7	571	1622	0,524	0,668	0,136
50	8,2	22,2	5,5	2,1	37,0	592	1853	0,387	0,493	0,149
70	9,8	23,8	5,5	2,2	38,8	621	2148	0,268	0,342	0,169
95	11,6	25,6	5,5	2,3	40,8	653	2525	0,193	0,246	0.190
120	13,1	27,1	5,5	2,3	42,3	677	2826	0,153	0,195	0,206
150	14,3	28,3	5,5	2,4	43,7	699	3147	0,124	0,158	0,220
185	16,2	30,2	5,5	2,5	46,9	750	3746	0,0991	0,126	0,243
240	18,2	32,2	5,5	2,5	49,0	784	4475	0,0754	0,096	0,270
300	20,3	34,3	5,5	2,6	51,4	822	5007	0,0601	0,077	0,294
400	23,3	37,3	5,5	2,7	54,7	875	6201	0,0470	0,060	0,326
500	26,9	40,9	5,5	2,8	58,6	938	7474	0,0366	0,047	0,358
630	30,1	44,1	5,5	3,0	62,4	998	8932	0,0283	0,036	0,370
800	33,5	47,5	5,5	3,1	66,1	1058	10942	0,0221	0,028	0,410

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	208	212	238	184	188	157	159	5,18	2,73
50	0,413	0,459	246	251	286	216	221	186	188	7,36	2,92
70	0,390	0,437	306	311	356	264	269	227	229	10,26	2,56
95	0,373	0,419	370	375	434	313	318	271	274	13,88	2,80
120	0,360	0,407	423	429	500	355	359	308	311	17,49	2,98
150	0,348	0,394	478	483	559	395	399	343	347	21,81	3,93
185	0,337	0,384	543	550	637	442	445	387	391	26,86	4,26
240	0,325	0,371	641	647	745	501	499	447	453	34,78	4,66
300	0,315	0,361	735	739	846	555	550	504	510	43,41	4,02
400	0,304	0,350	845	847	938	617	607	564	571	57,79	5,48
500	0,294	0,341	974	999	1087	755	772	669	684	72,16	5,96
630	0,286	0,332	1121	1160	1231	834	871	721	741	90,83	5,53
800	0,294	0,479	1133	1212	1280	853	874	784	820	115,23	7,43

N2XSR(Al)Y

Copper conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSR(Al)Y 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
50	8,2	27,2	8,0	2,3	42,4	678	2266	0,387	0,493	0,121
70	9,8	28,8	8,0	2,4	44,3	709	2589	0,268	0,342	0,136
95	11,6	30,6	8,0	2,5	47,3	757	3116	0,193	0,246	0,151
120	13,1	32,1	8,0	2,5	48,9	782	3451	0,153	0,195	0,163
150	14,3	33,3	8,0	2,6	50,3	805	3784	0,124	0,158	0,173
185	16,2	35,2	8,0	2,6	52,3	837	4260	0,0991	0,126	0,190
240	18,2	37,2	8,0	2,7	54,6	874	5037	0,0754	0,096	0,209
300	20,3	39,3	8,0	2,8	57,0	912	5594	0,0601	0,077	0,227
400	23,3	42,3	8,0	2,9	60,3	965	6821	0,0470	0,060	0,250
500	26,9	45,9	8,0	3,0	64,2	1027	8132	0,0366	0,047	0,274
630	30,1	49,1	8,0	3,1	67,8	1085	9593	0,0283	0,036	0,288
800	33,5	52,5	8,0	3,3	71,7	1147	11677	0,0221	0,028	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	250	254	286	216	221	186	188	7,36	2,92
70	0,428	0,474	309	314	356	264	269	227	229	10,26	2,56
95	0,406	0,453	372	377	434	313	318	271	274	13,88	2,80
120	0,393	0,439	426	431	500	355	359	308	311	17,49	2,98
150	0,381	0,427	480	485	559	395	399	343	347	21,81	3,93
185	0,368	0,414	543	550	637	442	445	387	391	26,86	4,26
240	0,354	0,400	641	647	745	501	499	447	453	34,78	4,66
300	0,344	0,390	735	739	846	555	550	504	510	43,41	4,02
400	0,329	0,375	845	847	938	617	607	564	571	57,79	5,48
500	0,320	0,366	974	999	1087	755	772	669	684	72,16	5,96
630	0,306	0,352	1122	1168	1231	783	835	721	741	90,83	5,53
800	0,308	0,492	1143	1213	1280	858	875	784	820	115,23	7,29

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSR(Al)Y

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSR(Al)Y 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	14,0	2,5	1,8	27,9	335	895	1,200	1,539	0,191
35	6,9	14,9	2,5	1,9	28,5	342	939	0,868	1,113	0,216
50	8,2	16,2	2,5	1,9	29,8	357	1041	0,641	0,822	0,240
70	9,8	17,8	2,5	2,0	31,6	379	1186	0,443	0,568	0,279
95	11,6	19,6	2,5	2,0	33,4	401	1343	0,320	0,410	0,318
120	13,1	21,1	2,5	2,1	35,9	431	1568	0,253	0,324	0,349
150	14,3	22,3	2,5	2,1	37,1	445	1697	0,206	0,264	0,376
185	16,2	24,2	2,5	2,2	39,2	470	1913	0,164	0,210	0,419
240	18,2	26,4	2,6	2,3	41,6	499	2288	0,125	0,160	0,459
300	20,3	28,9	2,8	2,4	44,4	533	2508	0,100	0,128	0,481
400	23,3	32,3	3,0	2,5	49,1	589	3156	0,0778	0,100	0,511
500	26,9	36,3	3,2	2,7	53,7	644	3785	0,0605	0,078	0,540
630	30,1	39,5	3,2	2,8	57,2	686	4354	0,0469	0,060	0,534
800	33,5	42,9	3,2	2,9	60,9	731	5128	0,0367	0,047	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	127	145	153	114	130	102	103	2,49	2,26
35	0,374	0,420	154	175	185	185	154	122	123	3,45	2,43
50	0,359	0,405	184	218	222	161	183	144	146	4,89	2,63
70	0,339	0,385	230	264	278	198	224	176	178	6,81	2,90
95	0,325	0,371	280	323	338	235	266	210	213	9,19	2,56
120	0,313	0,359	324	372	391	268	301	240	242	11,58	2,75
150	0,302	0,348	368	419	440	299	331	267	271	14,43	3,63
185	0,295	0,341	424	479	504	339	372	303	307	17,76	3,96
240	0,288	0,334	502	566	593	394	429	351	356	22,98	4,39
300	0,282	0,329	577	644	677	444	481	397	402	28,67	4,82
400	0,276	0,323	673	732	769	505	530	451	457	38,14	5,35
500	0,271	0,318	782	828	881	568	608	527	533	47,60	5,90
630	0,265	0,311	884	931	1024	631	647	615	621	59,90	6,84
800	0,308	0,492	922	957	1059	656	699	645	655	75,96	6,99

NA2XSR(AI)Y

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSR(AI)Y 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	15,8	3,4	1,9	29,9	359	1010	1,200	1,539	0,161
35	6,9	16,7	3,4	1,9	30,3	363	1039	0,868	1,113	0,181
50	8,2	18,0	3,4	2,0	31,8	381	1162	0,641	0,822	0,200
70	9,8	19,6	3,4	2,0	33,4	401	1296	0,443	0,568	0,230
95	11,6	21,4	3,4	2,1	36,2	434	1558	0,320	0,410	0,216
120	13,1	22,9	3,4	2,2	37,9	455	1716	0,253	0,324	0,286
150	14,3	24,1	3,4	2,2	39,1	469	1850	0,206	0,264	0,306
185	16,2	26,0	3,4	2,3	41,2	494	2065	0,164	0,210	0,341
240	18,2	28,0	3,4	2,3	43,2	518	2412	0,125	0,160	0,382
300	20,3	30,1	3,4	2,5	46,8	562	2753	0,100	0,128	0,420
400	23,3	33,1	3,4	2,6	50,1	601	3257	0,0778	0,100	0,467
500	26,9	36,7	3,4	2,7	54,1	649	3819	0,0605	0,078	0,517
630	30,1	39,9	3,4	2,8	57,6	691	4403	0,0469	0,060	0,514
800	33,5	43,3	3,4	2,9	61,3	736	5179	0,0367	0,047	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	127	145	153	115	130	102	103	2,49	2,56
35	0,393	0,440	154	176	185	136	155	122	123	3,45	2,73
50	0,377	0,423	184	213	222	162	184	144	146	4,89	2,92
70	0,355	0,402	230	265	278	199	255	176	178	6,81	2,56
95	0,340	0,387	280	324	338	236	267	210	213	9,19	2,80
120	0,327	0,373	324	373	391	269	302	240	242	11,58	2,98
150	0,318	0,364	368	420	440	300	332	267	271	14,43	3,93
185	0,308	0,354	424	480	504	340	373	303	307	17,76	4,26
240	0,298	0,344	502	567	593	395	430	351	356	22,98	4,66
300	0,290	0,336	577	645	677	445	482	397	402	28,67	4,02
400	0,281	0,327	673	733	769	506	531	451	457	38,14	5,48
500	0,273	0,320	782	830	881	568	609	527	533	47,60	5,96
630	0,267	0,313	885	931	1024	631	648	615	621	59,90	5,53
800	0,308	0,492	922	958	1059	657	691	645	655	75,96	6,05

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSR(AI)Y

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSR(AI)Y 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	18,0	4,5	2,0	32,3	387	1159	1,200	1,539	0,138
35	6,9	18,9	4,5	2,0	32,7	392	1188	0,868	1,113	0,154
50	8,2	20,2	4,5	2,1	35,0	420	1393	0,641	0,822	0,170
70	9,8	21,8	4,5	2,1	36,6	439	1534	0,443	0,568	0,193
95	11,6	23,6	4,5	2,2	38,6	463	1732	0,320	0,410	0,218
120	13,1	25,1	4,5	2,2	40,1	481	1877	0,253	0,324	0,238
150	14,3	26,3	4,5	2,3	41,5	498	2036	0,206	0,264	0,254
185	16,2	28,2	4,5	2,4	43,6	523	2260	0,164	0,210	0,281
240	18,2	30,2	4,5	2,5	46,9	563	2776	0,125	0,160	0,314
300	20,3	32,3	4,5	2,5	49,1	589	2967	0,100	0,128	0,344
400	23,3	35,3	4,5	2,6	52,4	629	3472	0,0778	0,100	0,372
500	26,9	38,9	4,5	2,8	56,6	679	4092	0,0605	0,078	0,384
630	30,1	42,1	4,5	2,9	60,1	721	4680	0,0469	0,060	0,423
800	33,5	45,5	4,5	3,0	63,8	766	5472	0,0367	0,047	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,437	0,484	127	145	153	115	130	102	103	2,49	2,56
35	0,415	0,416	154	178	185	137	156	122	123	3,45	2,73
50	0,398	0,444	184	215	222	164	185	144	146	4,89	2,92
70	0,373	0,419	230	237	278	201	226	176	178	6,81	2,56
95	0,358	0,405	280	325	338	239	268	210	213	9,19	2,80
120	0,345	0,391	324	374	391	273	304	240	242	11,58	2,98
150	0,335	0,381	559	421	440	304	335	267	271	14,43	3,93
185	0,325	0,371	424	480	504	344	376	303	307	17,76	4,26
240	0,312	0,359	502	511	593	400	434	351	356	22,98	4,66
300	0,304	0,350	577	645	677	450	486	397	402	28,67	4,02
400	0,294	0,340	673	732	769	512	537	451	457	38,14	5,48
500	0,285	0,331	782	830	881	570	611	527	533	47,60	5,96
630	0,277	0,324	887	931	1024	631	650	615	621	59,90	5,53
800	0,317	0,502	922	960	1059	659	694	645	655	75,96	6,34

NA2XSR(AI)Y

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSR(AI)Y 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
35	6,9	20,9	5,5	2,1	35,7	428	1409	0,868	1,113	0,136
50	8,2	22,2	5,5	2,1	37,0	444	1531	0,641	0,822	0,149
70	9,8	23,8	5,5	2,2	38,8	465	1698	0,443	0,568	0,169
95	11,6	25,6	5,5	2,3	40,8	489	1903	0,320	0,410	0.190
120	13,1	27,1	5,5	2,3	42,3	507	2053	0,253	0,324	0,206
150	14,3	28,3	5,5	2,4	43,7	524	2219	0,206	0,264	0,220
185	16,2	30,2	5,5	2,5	46,9	563	2588	0,164	0,210	0,243
240	18,2	32,2	5,5	2,5	49,0	588	2975	0,125	0,160	0,270
300	20,3	34,3	5,5	2,6	51,4	617	3188	0,100	0,128	0,294
400	23,3	37,3	5,5	2,7	54,7	656	3719	0,0778	0,100	0,326
500	26,9	40,9	5,5	2,8	58,6	703	4300	0,0605	0,078	0,358
630	30,1	44,1	5,5	3,0	62,4	749	4959	0,0469	0,060	0,370
800	33,5	47,5	5,5	3,1	66,1	793	5767	0,0367	0,047	0,410

1 CORE 12/20 (24) KV

The conductors are compacted stranded (cm) with cross-sectional area 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	154	178	185	137	156	122	123	3,45	2,73
50	0,413	0,459	184	215	222	164	185	144	146	4,89	2,92
70	0,390	0,437	230	237	278	201	226	176	178	6,81	2,56
95	0,373	0,419	280	325	338	239	268	210	213	9,19	2,80
120	0,360	0,407	324	374	391	273	304	240	242	11,58	2,98
150	0,348	0,394	368	421	440	304	335	267	271	14,43	3,93
185	0,337	0,384	424	480	504	344	376	303	307	17,76	4,26
240	0,325	0,371	502	508	593	400	434	351	356	22,98	4,66
300	0,315	0,361	577	645	677	450	486	397	402	28,67	4,02
400	0,304	0,350	673	732	769	512	537	451	457	38,14	5,48
500	0,294	0,341	782	830	881	570	611	527	533	47,6	5,96
630	0,286	0,332	887	931	1024	631	650	615	621	59,90	5,53
800	0,329	0,514	922	960	1059	659	694	645	655	75,96	7,43

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSR(AI)Y

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape Screen,
Aluminium Wire Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSR(AI)Y 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
50	8,2	27,2	8,0	2,3	42,4	509	1944	0,641	0,822	0,121
70	9,8	28,8	8,0	2,4	44,3	531	2138	0,443	0,568	0,136
95	11,6	30,6	8,0	2,5	47,3	568	2494	0,320	0,410	0,151
120	13,1	32,1	8,0	2,5	48,9	587	2678	0,253	0,324	0,163
150	14,3	33,3	8,0	2,6	50,3	604	2855	0,206	0,264	0,173
185	16,2	35,2	8,0	2,6	52,3	628	3102	0,164	0,210	0,190
240	18,2	37,2	8,0	2,7	54,6	655	3537	0,125	0,160	0,209
300	20,3	39,3	8,0	2,8	57,0	684	3775	0,100	0,128	0,227
400	23,3	42,3	8,0	2,9	60,3	724	4339	0,0778	0,100	0,250
500	26,9	45,9	8,0	3,0	64,2	770	4958	0,0605	0,078	0,274
630	30,1	49,1	8,0	3,1	67,8	814	5621	0,0469	0,060	0,288
800	33,5	52,5	8,0	3,3	71,7	860	6502	0,0367	0,047	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	185	215	222	166	186	144	146	4,89	2,92
70	0,428	0,474	230	267	278	203	226	176	178	6,81	2,56
95	0,406	0,453	280	325	338	243	270	210	213	9,19	2,80
120	0,393	0,439	324	374	391	275	306	240	242	11,58	2,98
150	0,381	0,427	368	421	440	308	337	267	271	14,43	3,93
185	0,368	0,414	424	480	504	357	380	303	307	17,76	4,26
240	0,354	0,400	502	566	593	405	438	351	356	22,98	4,66
300	0,344	0,390	577	642	677	455	490	397	402	28,67	4,02
400	0,329	0,375	673	729	769	513	538	451	457	38,14	5,48
500	0,320	0,366	782	829	881	571	612	527	533	47,6	5,96
630	0,306	0,352	865	888	1024	631	651	615	621	59,90	5,53
800	0,346	0,530	922	961	1059	660	695	645	655	75,96	7,29

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSB(AI)Y

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 3,6/6 (7,2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	14,0	2,5	1,8	25,5	509	1014	0,727	0,927	0,191
35	6,9	14,9	2,5	1,8	25,9	517	1092	0,524	0,668	0,216
50	8,2	16,2	2,5	1,8	27,2	543	1305	0,387	0,493	0,240
70	9,8	17,8	2,5	1,9	29,0	579	1575	0,268	0,342	0,279
95	11,6	19,6	2,5	1,9	30,8	615	1903	0,193	0,246	0,318
120	13,1	21,1	2,5	2,0	32,5	649	2201	0,153	0,195	0,349
150	14,3	22,3	2,5	2,0	33,7	673	2480	0,124	0,158	0,376
185	16,2	24,2	2,5	2,1	35,8	715	2915	0,0991	0,126	0,419
240	18,2	26,4	2,6	2,2	38,2	763	3624	0,0754	0,096	0,459
300	20,3	28,9	2,8	2,3	41,0	819	4152	0,0601	0,077	0,481
400	23,3	32,3	3,0	2,4	44,7	893	5318	0,0470	0,060	0,511
500	26,9	36,3	3,2	2,5	49,1	981	6582	0,0366	0,047	0,540
630	30,1	39,5	3,2	2,7	52,8	1055	7963	0,0283	0,036	0,534
800	33,5	42,9	3,2	2,8	56,5	1129	9917	0,0221	0,028	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	167	171	196	154	157	132	133	3,73	2,26
35	0,374	0,420	202	207	238	184	188	157	159	5,18	2,43
50	0,359	0,405	241	246	286	216	221	186	188	7,36	2,63
70	0,339	0,385	300	306	356	264	269	227	229	10,26	2,90
95	0,325	0,371	363	370	434	313	318	271	274	13,88	2,56
120	0,313	0,359	417	424	500	355	359	308	311	17,49	2,75
150	0,302	0,348	473	481	559	395	399	343	347	21,81	3,63
185	0,295	0,341	543	550	637	442	445	387	391	26,86	3,96
240	0,288	0,334	641	647	745	501	499	447	453	34,78	4,39
300	0,282	0,329	735	739	846	555	550	504	510	43,41	4,82
400	0,276	0,323	845	847	938	617	607	564	571	57,79	5,35
500	0,271	0,318	974	999	1087	755	772	669	684	72,16	5,90
630	0,265	0,311	1006	1146	1231	779	864	721	741	90,83	6,84
800	0,595	0,272	1118	1209	1280	831	871	784	820	115,23	6,99

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSB(AI)Y

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	15,8	3,4	1,8	27,3	545	1115	0,727	0,927	0,161
35	6,9	16,7	3,4	1,8	27,7	553	1193	0,524	0,668	0,181
50	8,2	18,0	3,4	1,9	29,2	583	1425	0,387	0,493	0,200
70	9,8	19,6	3,4	1,9	30,8	615	1685	0,268	0,342	0,230
95	11,6	21,4	3,4	2,0	32,8	655	2035	0,193	0,246	0,261
120	13,1	22,9	3,4	2,1	34,5	689	2338	0,153	0,195	0,286
150	14,3	24,1	3,4	2,1	35,7	713	2622	0,124	0,158	0,306
185	16,2	26,0	3,4	2,2	37,8	755	3065	0,0991	0,126	0,341
240	18,2	28,0	3,4	2,2	39,8	795	3746	0,0754	0,096	0,382
300	20,3	30,1	3,4	2,3	42,2	843	4248	0,0601	0,077	0,420
400	23,3	33,1	3,4	2,4	45,5	909	5387	0,0470	0,060	0,467
500	26,9	36,7	3,4	2,5	49,5	989	6619	0,0366	0,047	0,517
630	30,1	39,9	3,4	2,7	53,2	1063	8003	0,0283	0,036	0,514
800	33,5	43,3	3,4	2,8	56,9	1137	9959	0,0221	0,028	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	169	172	196	154	157	132	133	3,73	2,56
35	0,393	0,440	204	209	238	184	188	157	159	5,18	2,73
50	0,377	0,423	243	248	286	216	221	186	188	7,36	2,92
70	0,355	0,402	302	308	356	264	269	227	229	10,26	2,56
95	0,340	0,387	365	372	434	313	318	271	274	13,88	2,80
120	0,327	0,373	419	426	500	355	359	308	311	17,49	2,98
150	0,318	0,364	475	481	559	395	399	343	347	21,81	3,93
185	0,308	0,354	543	550	637	442	445	387	391	26,86	4,26
240	0,298	0,344	641	647	745	501	499	447	453	34,78	4,66
300	0,290	0,336	735	739	846	555	550	504	510	43,41	4,02
400	0,281	0,327	845	847	938	617	607	564	571	57,79	5,48
500	0,273	0,320	974	999	1087	755	772	669	684	72,16	5,96
630	0,267	0,313	1007	1148	1231	832	865	721	741	90,83	5,53
800	0,272	0,457	1119	1210	1280	847	872	784	820	115,23	6,05

N2XSB(AI)Y

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	18,0	4,5	1,9	29,7	593	1259	0,727	0,927	0,138
35	6,9	18,9	4,5	1,9	30,1	601	1338	0,524	0,668	0,154
50	8,2	20,2	4,5	2,0	31,6	631	1576	0,387	0,493	0,170
70	9,8	21,8	4,5	2,0	33,2	663	1843	0,268	0,342	0,193
95	11,6	23,6	4,5	2,1	35,2	703	2202	0,193	0,246	0,218
120	13,1	25,1	4,5	2,1	36,7	733	2493	0,153	0,195	0,238
150	14,3	26,3	4,5	2,2	38,1	761	2801	0,124	0,158	0,254
185	16,2	28,2	4,5	2,2	40,0	799	3231	0,0991	0,126	0,281
240	18,2	30,2	4,5	2,3	42,3	845	3953	0,0754	0,096	0,314
300	20,3	32,3	4,5	2,4	44,7	893	4467	0,0601	0,077	0,344
400	23,3	35,3	4,5	2,5	48,0	959	5620	0,0470	0,060	0,372
500	26,9	38,9	4,5	2,6	52,0	1039	6870	0,0366	0,047	0,384
630	30,1	42,1	4,5	2,7	55,5	1109	8242	0,0283	0,036	0,423
800	33,5	45,5	4,5	2,9	59,4	1187	10244	0,0221	0,028	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,437	0,484	170	174	196	154	157	132	133	3,73	2,56
35	0,415	0,416	206	211	238	184	188	157	159	5,18	2,73
50	0,398	0,444	245	250	286	216	221	186	188	7,36	2,92
70	0,373	0,419	304	310	356	264	269	227	229	10,26	2,56
95	0,358	0,405	367	373	434	313	318	271	274	13,88	2,80
120	0,345	0,391	422	427	500	355	359	308	311	17,49	2,98
150	0,335	0,381	477	482	559	395	399	343	347	21,81	3,93
185	0,325	0,371	543	550	637	442	445	387	391	26,86	4,26
240	0,312	0,359	641	647	745	501	499	447	453	34,78	4,66
300	0,304	0,350	735	739	846	555	550	504	510	43,41	4,02
400	0,294	0,340	845	847	938	617	607	564	571	57,79	5,48
500	0,285	0,331	974	999	1087	755	772	669	684	72,16	5,96
630	0,277	0,324	1009	1155	1231	834	868	721	741	90,83	5,53
800	0,280	0,465	1127	1201	1280	850	874	784	820	115,23	6,34

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSB(AI)Y

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
35	6,9	20,9	5,5	2,0	32,3	645	1480	0,524	0,668	0,136
50	8,2	22,2	5,5	2,0	33,6	671	1707	0,387	0,493	0,149
70	9,8	23,8	5,5	2,1	35,4	707	1997	0,268	0,342	0,169
95	11,6	25,6	5,5	2,1	37,2	743	2344	0,193	0,246	0.190
120	13,1	27,1	5,5	2,2	38,9	777	2661	0,153	0,195	0,206
150	14,3	28,3	5,5	2,2	40,1	801	2953	0,124	0,158	0,220
185	16,2	30,2	5,5	2,3	42,3	845	3423	0,0991	0,126	0,243
240	18,2	32,2	5,5	2,4	44,6	891	4155	0,0754	0,096	0,270
300	20,3	34,3	5,5	2,5	47,0	939	4678	0,0601	0,077	0,294
400	23,3	37,3	5,5	2,6	50,3	1005	5846	0,0470	0,060	0,326
500	26,9	40,9	5,5	2,7	54,2	1083	7098	0,0366	0,047	0,358
630	30,1	44,1	5,5	2,8	57,8	1155	8499	0,0283	0,036	0,370
800	33,5	47,5	5,5	2,9	61,5	1229	10485	0,0221	0,028	0,410

1 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	208	212	238	184	188	157	159	5,18	2,73
50	0,413	0,459	246	251	286	216	221	186	188	7,36	2,92
70	0,390	0,437	306	311	356	264	269	227	229	10,26	2,56
95	0,373	0,419	370	375	434	313	318	271	274	13,88	2,80
120	0,360	0,407	423	429	500	355	359	308	311	17,49	2,98
150	0,348	0,394	478	483	559	395	399	343	347	21,81	3,93
185	0,337	0,384	543	550	637	442	445	387	391	26,86	4,26
240	0,325	0,371	641	647	745	501	499	447	453	34,78	4,66
300	0,315	0,361	735	739	846	555	550	504	510	43,41	4,02
400	0,304	0,350	845	847	938	617	607	564	571	57,79	5,48
500	0,294	0,341	974	999	1087	755	772	669	684	72,16	5,96
630	0,286	0,332	1121	1160	1231	834	871	721	741	90,83	5,53
800	0,294	0,479	1133	1212	1280	853	874	784	820	115,23	7,43

N2XSB(AI)Y

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 18//30 (7,2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
50	8,2	27,2	8,0	2,2	39,0	779	2102	0,387	0,493	0,121
70	9,8	28,8	8,0	2,3	40,9	817	2421	0,268	0,342	0,136
95	11,6	30,6	8,0	2,3	42,7	853	2784	0,193	0,246	0,151
120	13,1	32,1	8,0	2,4	44,5	889	3130	0,153	0,195	0,163
150	14,3	33,3	8,0	2,4	45,7	913	3434	0,124	0,158	0,173
185	16,2	35,2	8,0	2,5	47,9	957	3926	0,0991	0,126	0,190
240	18,2	37,2	8,0	2,6	50,2	1003	4681	0,0754	0,096	0,209
300	20,3	39,3	8,0	2,6	52,4	1047	5202	0,0601	0,077	0,227
400	23,3	42,3	8,0	2,8	55,9	1117	6430	0,0470	0,060	0,250
500	26,9	45,9	8,0	2,9	59,8	1195	7720	0,0366	0,047	0,274
630	30,1	49,1	8,0	3,0	63,4	1267	9158	0,0283	0,036	0,288
800	33,5	52,5	8,0	3,1	67,1	1341	11180	0,0221	0,028	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	250	254	286	216	221	186	188	7,36	2,92
70	0,428	0,474	309	314	356	264	269	227	229	10,26	2,56
95	0,406	0,453	372	377	434	313	318	271	274	13,88	2,80
120	0,393	0,439	426	431	500	355	359	308	311	17,49	2,98
150	0,381	0,427	480	485	559	395	399	343	347	21,81	3,93
185	0,368	0,414	543	550	637	442	445	387	391	26,86	4,26
240	0,354	0,400	641	647	745	501	499	447	453	34,78	4,66
300	0,344	0,390	735	739	846	555	550	504	510	43,41	4,02
400	0,329	0,375	845	847	938	617	607	564	571	57,79	5,48
500	0,320	0,366	974	999	1087	755	772	669	684	72,16	5,96
630	0,306	0,352	1122	1168	1231	783	835	721	741	90,83	5,53
800	0,308	0,492	1143	1213	1280	858	875	784	820	115,23	7,29

EXTRANA® CABLE
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NA2XSB(AI)Y

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSB(AI)Y 3,6/6 (7,2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	14,0	2,5	1,8	25,5	305	853	1,200	1,539	0,191
35	6,9	14,9	2,5	1,8	25,9	310	880	0,868	1,113	0,216
50	8,2	16,2	2,5	1,8	27,2	326	983	0,641	0,822	0,240
70	9,8	17,8	2,5	1,9	29,0	347	1125	0,443	0,568	0,279
95	11,6	19,6	2,5	1,9	30,8	369	1281	0,320	0,410	0,318
120	13,1	21,1	2,5	2,0	32,5	389	1428	0,253	0,324	0,349
150	14,3	22,3	2,5	2,0	33,7	404	1552	0,206	0,264	0,376
185	16,2	24,2	2,5	2,1	35,8	429	1757	0,164	0,210	0,419
240	18,2	26,4	2,6	2,2	38,2	458	2125	0,125	0,160	0,459
300	20,3	28,9	2,8	2,3	41,0	491	2333	0,100	0,128	0,481
400	23,3	32,3	3,0	2,4	44,7	536	2837	0,0778	0,100	0,511
500	26,9	36,3	3,2	2,5	49,1	589	3408	0,0605	0,078	0,540
630	30,1	39,5	3,2	2,7	52,8	633	3991	0,0469	0,060	0,534
800	33,5	42,9	3,2	2,8	56,5	677	4742	0,0367	0,047	0,595

1 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,394	0,441	127	145	153	114	130	102	103	2,49	2,26
35	0,374	0,420	154	175	185	185	154	122	123	3,45	2,43
50	0,359	0,405	184	218	222	161	183	144	146	4,89	2,63
70	0,339	0,385	230	264	278	198	224	176	178	6,81	2,90
95	0,325	0,371	280	323	338	235	266	210	213	9,19	2,56
120	0,313	0,359	324	372	391	268	301	240	242	11,58	2,75
150	0,302	0,348	368	419	440	299	331	267	271	14,43	3,63
185	0,295	0,341	424	479	504	339	372	303	307	17,76	3,96
240	0,288	0,334	502	566	593	394	429	351	356	22,98	4,39
300	0,282	0,329	577	644	677	444	481	397	402	28,67	4,82
400	0,276	0,323	673	732	769	505	530	451	457	38,14	5,35
500	0,271	0,318	782	828	881	568	608	527	533	47,60	5,90
630	0,265	0,311	884	931	1024	631	647	615	621	59,90	6,84
800	0,308	0,492	922	957	1059	656	699	645	655	75,96	6,99

NA2XSB(AI)Y

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSB(AI)Y 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	15,8	3,4	1,8	27,3	327	953	1,200	1,539	0,161
35	6,9	16,7	3,4	1,8	27,7	332	980	0,868	1,113	0,181
50	8,2	18,0	3,4	1,9	29,2	350	1102	0,641	0,822	0,200
70	9,8	19,6	3,4	1,9	30,8	369	1234	0,443	0,568	0,230
95	11,6	21,4	3,4	2,0	32,8	393	1413	0,320	0,410	0,216
120	13,1	22,9	3,4	2,1	34,5	413	1566	0,253	0,324	0,286
150	14,3	24,1	3,4	2,1	35,7	428	1694	0,206	0,264	0,306
185	16,2	26,0	3,4	2,2	37,8	453	1907	0,164	0,210	0,341
240	18,2	28,0	3,4	2,2	39,8	477	2246	0,125	0,160	0,382
300	20,3	30,1	3,4	2,3	42,2	506	2429	0,100	0,128	0,420
400	23,3	33,1	3,4	2,4	45,5	545	2906	0,0778	0,100	0,467
500	26,9	36,7	3,4	2,5	49,5	593	3445	0,0605	0,078	0,517
630	30,1	39,9	3,4	2,7	53,2	638	4031	0,0469	0,060	0,514
800	33,5	43,3	3,4	2,8	56,9	682	4784	0,0367	0,047	0,572

1 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,415	0,461	127	145	153	115	130	102	103	2,49	2,56
35	0,393	0,440	154	176	185	136	155	122	123	3,45	2,73
50	0,377	0,423	184	213	222	162	184	144	146	4,89	2,92
70	0,355	0,402	230	265	278	199	255	176	178	6,81	2,56
95	0,340	0,387	280	324	338	236	267	210	213	9,19	2,80
120	0,327	0,373	324	373	391	269	302	240	242	11,58	2,98
150	0,318	0,364	368	420	440	300	332	267	271	14,43	3,93
185	0,308	0,354	424	480	504	340	373	303	307	17,76	4,26
240	0,298	0,344	502	567	593	395	430	351	356	22,98	4,66
300	0,290	0,336	577	645	677	445	482	397	402	28,67	4,02
400	0,281	0,327	673	733	769	506	531	451	457	38,14	5,48
500	0,273	0,320	782	830	881	568	609	527	533	47,60	5,96
630	0,267	0,313	885	931	1024	631	648	615	621	59,90	5,53
800	0,308	0,492	922	958	1059	657	691	645	655	75,96	6,05

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSB(AI)Y

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
25	6,0	18,0	4,5	1,9	29,7	356	1098	1,200	1,539	0,138
35	6,9	18,9	4,5	1,9	30,1	361	1125	0,868	1,113	0,154
50	8,2	20,2	4,5	2,0	31,6	379	1254	0,641	0,822	0,170
70	9,8	21,8	4,5	2,0	33,2	398	1393	0,443	0,568	0,193
95	11,6	23,6	4,5	2,1	35,2	422	1579	0,320	0,410	0,218
120	13,1	25,1	4,5	2,1	36,7	440	1721	0,253	0,324	0,238
150	14,3	26,3	4,5	2,2	38,1	457	1873	0,206	0,264	0,254
185	16,2	28,2	4,5	2,2	40,0	479	2073	0,164	0,210	0,281
240	18,2	30,2	4,5	2,3	42,3	507	2453	0,125	0,160	0,314
300	20,3	32,3	4,5	2,4	44,7	536	2647	0,100	0,128	0,344
400	23,3	35,3	4,5	2,5	48,0	575	3139	0,0778	0,100	0,372
500	26,9	38,9	4,5	2,6	52,0	623	3696	0,0605	0,078	0,384
630	30,1	42,1	4,5	2,7	55,5	665	4270	0,0469	0,060	0,423
800	33,5	45,5	4,5	2,9	59,4	712	5069	0,0367	0,047	0,476

1 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
25	0,437	0,484	127	145	153	115	130	102	103	2,49	2,56
35	0,415	0,416	154	178	185	137	156	122	123	3,45	2,73
50	0,398	0,444	184	215	222	164	185	144	146	4,89	2,92
70	0,373	0,419	230	237	278	201	226	176	178	6,81	2,56
95	0,358	0,405	280	325	338	239	268	210	213	9,19	2,80
120	0,345	0,391	324	374	391	273	304	240	242	11,58	2,98
150	0,335	0,381	559	421	440	304	335	267	271	14,43	3,93
185	0,325	0,371	424	480	504	344	376	303	307	17,76	4,26
240	0,312	0,359	502	511	593	400	434	351	356	22,98	4,66
300	0,304	0,350	577	645	677	450	486	397	402	28,67	4,02
400	0,294	0,340	673	732	769	512	537	451	457	38,14	5,48
500	0,285	0,331	782	830	881	570	611	527	533	47,60	5,96
630	0,277	0,324	887	931	1024	631	650	615	621	59,90	5,53
800	0,317	0,502	922	960	1059	659	694	645	655	75,96	6,34

NA2XSB(AI)Y

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSB(AI)Y 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 12/20(24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km
35	6,9	20,9	5,5	2,0	32,3	387	1268	0,868	1,113	0,136
50	8,2	22,2	5,5	2,0	33,6	403	1384	0,641	0,822	0,149
70	9,8	23,8	5,5	2,1	35,4	424	1547	0,443	0,568	0,169
95	11,6	25,6	5,5	2,1	37,2	446	1722	0,320	0,410	0.190
120	13,1	27,1	5,5	2,2	38,9	466	1888	0,253	0,324	0,206
150	14,3	28,3	5,5	2,2	40,1	481	2025	0,206	0,264	0,220
185	16,2	30,2	5,5	2,3	42,3	507	2265	0,164	0,210	0,243
240	18,2	32,2	5,5	2,4	44,6	535	2655	0,125	0,160	0,270
300	20,3	34,3	5,5	2,5	47,0	563	2859	0,100	0,128	0,294
400	23,3	37,3	5,5	2,6	50,3	603	3364	0,0778	0,100	0,326
500	26,9	40,9	5,5	2,7	54,2	650	3923	0,0605	0,078	0,358
630	30,1	44,1	5,5	2,8	57,8	693	4527	0,0469	0,060	0,370
800	33,5	47,5	5,5	2,9	61,5	737	5310	0,0367	0,047	0,410

1 CORE 12/20(24) KV

DIMENSIAL AND ELECTRICAL DATA

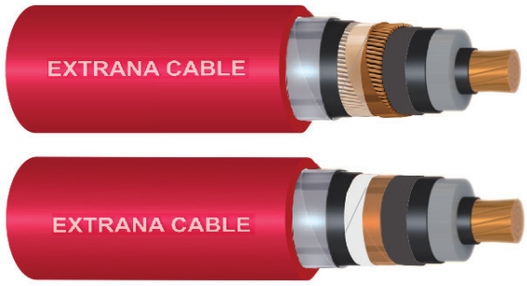
Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
35	0,432	0,478	154	178	185	137	156	122	123	3,45	2,73
50	0,413	0,459	184	215	222	164	185	144	146	4,89	2,92
70	0,390	0,437	230	237	278	201	226	176	178	6,81	2,56
95	0,373	0,419	280	325	338	239	268	210	213	9,19	2,80
120	0,360	0,407	324	374	391	273	304	240	242	11,58	2,98
150	0,348	0,394	368	421	440	304	335	267	271	14,43	3,93
185	0,337	0,384	424	480	504	344	376	303	307	17,76	4,26
240	0,325	0,371	502	508	593	400	434	351	356	22,98	4,66
300	0,315	0,361	577	645	677	450	486	397	402	28,67	4,02
400	0,304	0,350	673	732	769	512	537	451	457	38,14	5,48
500	0,294	0,341	782	830	881	570	611	527	533	47,6	5,96
630	0,286	0,332	887	931	1024	631	650	615	621	59,90	5,53
800	0,329	0,514	922	960	1059	659	694	645	655	75,96	7,43

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSB(AI)Y

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Aluminium Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSB(AI)Y 18//30 (7,2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 630 mm². The outer sheath is made of flame retardant PVC.

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)
			Insulation	Sheath						
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	µF/km
50	8,2	27,2	8,0	2,2	39,0	467	1779	0,641	0,822	0,121
70	9,8	28,8	8,0	2,3	40,9	490	1970	0,443	0,568	0,136
95	11,6	30,6	8,0	2,3	42,7	512	2162	0,320	0,410	0,151
120	13,1	32,1	8,0	2,4	44,5	533	2357	0,253	0,324	0,163
150	14,3	33,3	8,0	2,4	45,7	548	2505	0,206	0,264	0,173
185	16,2	35,2	8,0	2,5	47,9	574	2768	0,164	0,210	0,190
240	18,2	37,2	8,0	2,6	50,2	602	3182	0,125	0,160	0,209
300	20,3	39,3	8,0	2,6	52,4	628	3382	0,100	0,128	0,227
400	23,3	42,3	8,0	2,8	55,9	670	3948	0,0778	0,100	0,250
500	26,9	45,9	8,0	2,9	59,8	717	4546	0,0605	0,078	0,274
630	30,1	49,1	8,0	3,0	63,4	760	5185	0,0469	0,060	0,288
800	33,5	52,5	8,0	3,1	67,1	805	6005	0,0367	0,047	0,317

1 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Inductance per-phase (approx.)		Max. Current Carrying Capacity at 30°C (*)							Max. Short Circ. current of conductor	Max. Short Circ. current of screen
			in air			in ground		In duct			
	♣	●●●	♣	●●●	● ● ●	♣	●●●	♣	●●●		
mm²	mH/km		A			A		A		kA/sec	kA/sec
50	0,455	0,501	185	215	222	166	186	144	146	4,89	2,92
70	0,428	0,474	230	267	278	203	226	176	178	6,81	2,56
95	0,406	0,453	280	325	338	243	270	210	213	9,19	2,80
120	0,393	0,439	324	374	391	275	306	240	242	11,58	2,98
150	0,381	0,427	368	421	440	308	337	267	271	14,43	3,93
185	0,368	0,414	424	480	504	357	380	303	307	17,76	4,26
240	0,354	0,400	502	566	593	405	438	351	356	22,98	4,66
300	0,344	0,390	577	642	677	455	490	397	402	28,67	4,02
400	0,329	0,375	673	729	769	513	538	451	457	38,14	5,48
500	0,320	0,366	782	829	881	571	612	527	533	47,6	5,96
630	0,306	0,352	865	888	1024	631	651	615	621	59,90	5,53
800	0,346	0,530	922	961	1059	660	695	645	655	75,96	7,29

N2XSEY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEY 3,6/6 (7,2) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,4	44,2	530	2744	0,727
35	6,9	14,9	2,5	2,4	45,7	548	3072	0,524
50	8,2	16,2	2,5	2,5	48,8	586	3806	0,387
70	9,8	17,8	2,5	2,7	52,9	635	4738	0,268
95	11,6	19,6	2,5	2,8	57,1	685	5877	0,193
120	13,1	21,1	2,5	2,9	60,7	728	6941	0,153
150	14,3	22,3	2,5	3,0	63,6	763	7929	0,124
185	16,2	24,2	2,5	3,2	68,2	818	9438	0,0991
240	18,2	26,4	2,6	3,3	73,4	881	11535	0,0754
300	20,3	28,9	2,8	3,5	79,4	953	13698	0,0601
400	23,3	32,3	3,0	3,8	87,6	1051	17728	0,0470

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,191	0,346	149	145	112	3,73	1,90
35	0,668	0,216	0,326	181	173	133	5,18	2,05
50	0,493	0,240	0,314	215	204	158	7,36	2,21
70	0,342	0,279	0,296	268	249	193	10,26	2,44
95	0,246	0,318	0,284	325	297	231	13,88	2,69
120	0,195	0,349	0,276	374	337	264	17,49	2,89
150	0,158	0,376	0,269	425	378	297	21,81	3,05
185	0,126	0,419	0,262	486	426	336	26,86	3,33
240	0,096	0,459	0,256	570	492	390	34,78	3,70
300	0,077	0,481	0,253	648	551	441	43,41	4,06
400	0,060	0,511	0,243	765	628	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEY 6/10 (12) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,5	48,5	582	3166	0,727
35	6,9	16,7	3,4	2,6	50,2	602	3533	0,524
50	8,2	18,0	3,4	2,7	53,3	640	4297	0,387
70	9,8	19,6	3,4	2,8	57,1	685	5222	0,268
95	11,6	21,4	3,4	2,9	61,4	737	6413	0,193
120	13,1	22,9	3,4	3,1	65,1	781	7536	0,153
150	14,3	24,1	3,4	3,1	67,8	814	8515	0,124
185	16,2	26,0	3,4	3,3	72,5	870	10084	0,0991
240	18,2	28,0	3,4	3,5	77,4	929	12196	0,0754
300	20,3	30,1	3,4	3,6	82,2	986	14196	0,0601
400	23,3	33,1	3,4	3,9	89,6	1075	18116	0,0470

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30ºC (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,161	0,350	152	145	112	3,73	1,90
35	0,668	0,181	0,336	183	173	133	5,18	2,05
50	0,493	0,200	0,316	218	204	158	7,36	2,21
70	0,342	0,230	0,303	272	249	193	10,26	2,44
95	0,246	0,261	0,293	328	297	231	13,88	2,69
120	0,195	0,286	0,285	377	337	264	17,49	2,89
150	0,158	0,306	0,277	428	378	297	21,81	3,05
185	0,126	0,341	0,268	488	426	336	26,86	3,33
240	0,096	0,382	0,261	572	492	390	34,78	3,70
300	0,077	0,420	0,253	651	551	441	43,41	4,06
400	0,060	0,467	0,248	766	630	477	57,79	4,51

N2XSEY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEY 8,7/15 (17,5) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,7	53,8	646	3748	0,727
35	6,9	18,9	4,5	2,7	55,4	665	4107	0,524
50	8,2	20,2	4,5	2,8	58,5	702	4903	0,387
70	9,8	21,8	4,5	3,0	62,4	749	5899	0,268
95	11,6	23,6	4,5	3,1	66,7	800	7138	0,193
120	13,1	25,1	4,5	3,2	70,2	842	8278	0,153
150	14,3	26,3	4,5	3,3	73,1	877	9324	0,124
185	16,2	28,2	4,5	3,5	77,8	934	10947	0,0991
240	18,2	30,2	4,5	3,6	82,5	990	13053	0,0754
300	20,3	32,3	4,5	3,8	87,6	1051	15173	0,0601
400	23,3	35,3	4,5	4,0	94,8	1138	19128	0,0470

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30ºC (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,138	0,376	154	145	112	3,73	1,90
35	0,668	0,154	0,361	186	173	133	5,18	2,05
50	0,493	0,170	0,338	221	204	158	7,36	2,21
70	0,342	0,193	0,323	275	249	193	10,26	2,44
95	0,246	0,218	0,312	332	297	231	13,88	2,69
120	0,195	0,238	0,304	381	337	264	17,49	2,89
150	0,158	0,254	0,294	432	378	297	21,81	3,05
185	0,126	0,281	0,284	491	426	336	26,86	3,33
240	0,096	0,314	0,276	576	492	390	34,78	3,70
300	0,077	0,344	0,268	654	551	441	43,41	4,06
400	0,060	0,372	0,261	767	631	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEY 12/20 (24) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	2,9	60,2	722	4696	0,524
50	8,2	22,2	5,5	3,0	63,4	761	5540	0,387
70	9,8	23,8	5,5	3,1	67,1	805	6541	0,268
95	11,6	25,6	5,5	3,3	71,5	858	7842	0,193
120	13,1	27,1	5,5	3,4	75,2	902	9051	0,153
150	14,3	28,3	5,5	3,5	78,1	937	10128	0,124
185	16,2	30,2	5,5	3,6	82,5	990	11735	0,0991
240	18,2	32,2	5,5	3,8	87,4	1049	13952	0,0754
300	20,3	34,3	5,5	4,0	92,5	1110	16125	0,0601
400	23,3	37,3	5,5	4,2	99,7	1196	20156	0,0470

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	0,668	0,136	0,397	188	173	133	5,18	2,05
50	0,493	0,149	0,380	223	204	158	7,36	2,21
70	0,342	0,169	0,357	277	249	193	10,26	2,44
95	0,246	0.190	0,340	334	297	231	13,88	2,69
120	0,195	0,206	0,328	384	337	264	17,49	2,89
150	0,158	0,220	0,319	433	378	297	21,81	3,05
185	0,126	0,243	0,308	494	426	336	26,86	3,33
240	0,096	0,270	0,297	578	492	390	34,78	3,70
300	0,077	0,294	0,289	657	552	441	43,41	4,06
400	0,060	0,326	0,274	767	631	477	57,79	4,51

N2XSEY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEY 18/30 (36) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,4	75,4	905	7298	0,387
70	9,8	28,8	8,0	3,5	79,1	949	8393	0,268
95	11,6	30,6	8,0	3,7	83,6	1003	9826	0,193
120	13,1	32,1	8,0	3,8	87,2	1046	11136	0,153
150	14,3	33,3	8,0	3,9	90,1	1081	12287	0,124
185	16,2	35,2	8,0	4,0	94,6	1135	14030	0,0991
240	18,2	37,2	8,0	4,2	99,4	1193	16348	0,0754
300	20,3	39,3	8,0	4,3	104,3	1252	18598	0,0601
400	23,3	42,3	8,0	4,6	111,7	1340	22867	0,0470

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,493	0,121	0,423	227	204	158	7,36	2,21
70	0,342	0,136	0,396	280	249	193	10,26	2,44
95	0,246	0,151	0,377	338	297	231	13,88	2,69
120	0,195	0,163	0,364	387	337	264	17,49	2,89
150	0,158	0,173	0,353	438	378	297	21,81	3,05
185	0,126	0,190	0,340	498	426	336	26,86	3,33
240	0,096	0,209	0,327	583	492	390	34,78	3,70
300	0,077	0,227	0,317	660	552	441	43,41	4,06
400	0,060	0,250	0,297	768	632	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEY 3,6/6 (7,2) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,4	44,2	530	2259	1,200
35	6,9	14,9	2,5	2,4	45,7	548	2435	0,868
50	8,2	16,2	2,5	2,5	48,8	586	2838	0,641
70	9,8	17,8	2,5	2,7	52,9	635	3387	0,443
95	11,6	19,6	2,5	2,8	57,1	685	4010	0,320
120	13,1	21,1	2,5	2,9	60,7	728	4624	0,253
150	14,3	22,3	2,5	3,0	63,6	763	5144	0,206
185	16,2	24,2	2,5	3,2	68,2	818	5965	0,164
240	18,2	26,4	2,6	3,3	73,4	881	7036	0,125
300	20,3	28,9	2,8	3,5	79,4	953	8240	0,100
400	23,3	32,3	3,0	3,8	87,6	1051	10283	0,0778

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,191	0,346	110	102	87	2,49	1,90
35	1,113	0,216	0,326	133	131	103	3,45	2,05
50	0,822	0,240	0,314	160	156	122	4,89	2,21
70	0,568	0,279	0,296	200	192	150	6,81	2,44
95	0,410	0,318	0,284	241	230	179	9,19	2,69
120	0,324	0,349	0,276	280	261	205	11,58	2,89
150	0,264	0,376	0,269	317	294	231	14,43	3,05
185	0,210	0,419	0,262	363	333	262	17,76	3,33
240	0,160	0,459	0,256	474	388	305	22,98	3,70
300	0,128	0,481	0,253	484	416	346	28,67	4,06
400	0,100	0,511	0,243	597	498	432	38,14	4,51

NA2XSEY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEY 6/10 (12) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,5	48,5	582	2681	1,200
35	6,9	16,7	3,4	2,6	50,2	602	2896	0,868
50	8,2	18,0	3,4	2,7	53,3	640	3328	0,641
70	9,8	19,6	3,4	2,8	57,1	685	3870	0,443
95	11,6	21,4	3,4	2,9	61,4	737	4546	0,320
120	13,1	22,9	3,4	3,1	65,1	781	5219	0,253
150	14,3	24,1	3,4	3,1	67,8	814	5730	0,206
185	16,2	26,0	3,4	3,3	72,5	870	6611	0,164
240	18,2	28,0	3,4	3,5	77,4	929	7697	0,125
300	20,3	30,1	3,4	3,6	82,2	986	8738	0,100
400	23,3	33,1	3,4	3,9	89,6	1075	10671	0,0778

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30ºC (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,161	0,350	114	103	87	2,49	1,90
35	1,113	0,181	0,336	134	132	103	3,45	2,05
50	0,822	0,200	0,316	161	157	122	4,89	2,21
70	0,568	0,230	0,303	201	193	150	6,81	2,44
95	0,410	0,261	0,293	242	231	179	9,19	2,69
120	0,324	0,286	0,285	281	262	205	11,58	2,89
150	0,264	0,306	0,277	318	295	231	14,43	3,05
185	0,210	0,341	0,268	364	334	262	17,76	3,33
240	0,160	0,382	0,261	425	389	305	22,98	3,70
300	0,128	0,420	0,253	485	417	346	28,67	4,06
400	0,100	0,467	0,248	598	499	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEY 8,7/15 (17,5) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,7	53,8	646	3263	1,200
35	6,9	18,9	4,5	2,7	55,4	665	3469	0,868
50	8,2	20,2	4,5	2,8	58,5	702	3935	0,641
70	9,8	21,8	4,5	3,0	62,4	749	4548	0,443
95	11,6	23,6	4,5	3,1	66,7	800	5272	0,320
120	13,1	25,1	4,5	3,2	70,2	842	5960	0,253
150	14,3	26,3	4,5	3,3	73,1	877	6539	0,206
185	16,2	28,2	4,5	3,5	77,8	934	7474	0,164
240	18,2	30,2	4,5	3,6	82,5	990	8554	0,125
300	20,3	32,3	4,5	3,8	87,6	1051	9715	0,100
400	23,3	35,3	4,5	4,0	94,8	1138	11683	0,0778

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,138	0,376	114	103	87	2,49	1,90
35	1,113	0,154	0,361	140	133	103	3,45	2,05
50	0,822	0,170	0,338	162	155	122	4,89	2,21
70	0,568	0,193	0,323	206	188	150	6,81	2,44
95	0,410	0,218	0,312	247	225	179	9,19	2,69
120	0,324	0,238	0,304	285	257	205	11,58	2,89
150	0,264	0,254	0,294	322	286	231	14,43	3,05
185	0,210	0,281	0,284	368	324	262	17,76	3,33
240	0,160	0,314	0,276	429	376	305	22,98	3,70
300	0,128	0,344	0,268	486	418	346	28,67	4,06
400	0,100	0,372	0,382	599	500	432	38,14	4,51

NA2XSEY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEY 12/20 (24) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	2,9	60,2	722	4058	0,868
50	8,2	22,2	5,5	3,0	63,4	761	4572	0,641
70	9,8	23,8	5,5	3,1	67,1	805	5190	0,443
95	11,6	25,6	5,5	3,3	71,5	858	5975	0,320
120	13,1	27,1	5,5	3,4	75,2	902	6733	0,253
150	14,3	28,3	5,5	3,5	78,1	937	7342	0,206
185	16,2	30,2	5,5	3,6	82,5	990	8262	0,164
240	18,2	32,2	5,5	3,8	87,4	1049	9453	0,125
300	20,3	34,3	5,5	4,0	92,5	1110	10667	0,100
400	23,3	37,3	5,5	4,2	99,7	1196	12711	0,0778

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	1,113	0,136	0,397	140	133	87	3,45	2,05
50	0,822	0,149	0,380	163	155	103	4,89	2,21
70	0,568	0,169	0,357	201	193	122	6,81	2,44
95	0,410	0.190	0,340	244	230	150	9,19	2,69
120	0,324	0,206	0,328	283	263	179	11,58	2,89
150	0,264	0,220	0,319	321	295	205	14,43	3,05
185	0,210	0,243	0,308	368	334	231	17,76	3,33
240	0,160	0,270	0,297	429	389	262	22,98	3,70
300	0,128	0,294	0,289	486	418	305	28,67	4,06
400	0,100	0,326	0,274	599	500	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/ Tape Screen, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEY 18/30 (36) kV are normally used for power stations, industries and switchgears. These cables can be used indoors and outdoors, installed in the ground or through cable trunking.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,4	75,4	905	6330	0,641
70	9,8	28,8	8,0	3,5	79,1	949	7042	0,443
95	11,6	30,6	8,0	3,7	83,6	1003	7959	0,32
120	13,1	32,1	8,0	3,8	87,2	1046	8819	0,253
150	14,3	33,3	8,0	3,9	90,1	1081	9501	0,206
185	16,2	35,2	8,0	4,0	94,6	1135	10557	0,164
240	18,2	37,2	8,0	4,2	99,4	1193	11850	0,125
300	20,3	39,3	8,0	4,3	104,3	1252	13140	0,100
400	23,3	42,3	8,0	4,6	111,7	1340	15422	0,0778

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,822	0,121	0,423	164	156	103	4,89	2,21
70	0,568	0,136	0,396	207	189	122	6,81	2,44
95	0,410	0,151	0,377	248	226	150	9,19	2,69
120	0,324	0,163	0,364	286	258	179	11,58	2,89
150	0,264	0,173	0,353	323	287	205	14,43	3,05
185	0,210	0,190	0,340	368	325	231	17,76	3,33
240	0,160	0,209	0,327	480	377	262	22,98	3,70
300	0,128	0,227	0,317	487	419	305	28,67	4,06
400	0,100	0,250	0,297	600	501	432	38,14	4,51

N2XSERY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSERY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,6	50,9	814	4830	0,727
35	6,9	14,9	2,5	2,6	52,4	838	5204	0,524
50	8,2	16,2	2,5	2,7	55,5	888	6103	0,387
70	9,8	17,8	2,5	2,9	59,6	954	7207	0,268
95	11,6	19,6	2,5	3,0	63,8	1021	8518	0,193
120	13,1	21,1	2,5	3,1	67,4	1078	9750	0,153
150	14,3	22,3	2,5	3,2	70,3	1125	10866	0,124
185	16,2	24,2	2,5	3,4	76,2	1219	13353	0,0991
240	18,2	26,4	2,6	3,6	81,6	1306	15755	0,0754
300	20,3	28,9	2,8	3,8	87,6	1402	18248	0,0601
400	23,3	32,3	3,0	4,1	95,8	1533	22740	0,0470

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30ºC (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,191	0,346	155	148	112	3,73	1,90
35	0,668	0,216	0,326	188	176	134	5,18	2,05
50	0,493	0,240	0,314	224	207	158	7,36	2,21
70	0,342	0,279	0,296	279	253	194	10,26	2,44
95	0,246	0,318	0,284	337	302	232	13,88	2,69
120	0,195	0,349	0,276	386	342	264	17,49	2,89
150	0,158	0,376	0,269	438	382	296	21,81	3,05
185	0,126	0,419	0,262	499	430	335	26,86	3,33
240	0,096	0,459	0,256	584	495	387	34,78	3,70
300	0,077	0,481	0,253	662	552	435	43,41	4,06
400	0,060	0,511	0,243	758	623	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSERY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSERY 6/10(12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,7	55,2	883	5425	0,727
35	6,9	16,7	3,4	2,8	56,9	910	5877	0,524
50	8,2	18,0	3,4	2,9	60,0	960	6769	0,387
70	9,8	19,6	3,4	3,0	63,8	1021	7863	0,268
95	11,6	21,4	3,4	3,2	68,3	1093	9298	0,193
120	13,1	22,9	3,4	3,3	71,8	1149	10556	0,153
150	14,3	24,1	3,4	3,4	76,0	1216	12408	0,124
185	16,2	26,0	3,4	3,6	80,7	1291	14241	0,0991
240	18,2	28,0	3,4	3,7	85,4	1367	16574	0,0754
300	20,3	30,1	3,4	3,9	90,4	1447	18882	0,0601
400	23,3	33,1	3,4	4,1	97,6	1562	23206	0,0470

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,161	0,372	158	148	112	3,73	1,90
35	0,668	0,181	0,350	191	176	134	5,18	2,05
50	0,493	0,200	0,336	227	207	158	7,36	2,21
70	0,342	0,230	0,316	281	253	194	10,26	2,44
95	0,246	0,261	0,303	339	301	232	13,88	2,69
120	0,195	0,286	0,293	389	341	264	17,49	2,89
150	0,158	0,306	0,285	440	382	296	21,81	3,05
185	0,126	0,341	0,277	501	430	335	26,86	3,33
240	0,096	0,382	0,268	585	493	387	34,78	3,70
300	0,077	0,420	0,261	663	551	435	43,41	4,06
400	0,060	0,467	0,248	789	624	477	57,79	4,51

N2XSERY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSERY 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,9	60,5	968	6259	0,727
35	6,9	18,9	4,5	3,0	62,3	997	6732	0,524
50	8,2	20,2	4,5	3,1	65,4	1046	7659	0,387
70	9,8	21,8	4,5	3,2	69,1	1106	8792	0,268
95	11,6	23,6	4,5	3,4	74,9	1199	10967	0,193
120	13,1	25,1	4,5	3,5	78,4	1255	12303	0,153
150	14,3	26,3	4,5	3,6	81,3	1301	13542	0,124
185	16,2	28,2	4,5	3,7	85,8	1373	15384	0,0991
240	18,2	30,2	4,5	3,9	90,7	1451	17797	0,0754
300	20,3	32,3	4,5	4,1	95,8	1533	20185	0,0601
400	23,3	35,3	4,5	4,3	103,0	1648	24535	0,0470

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

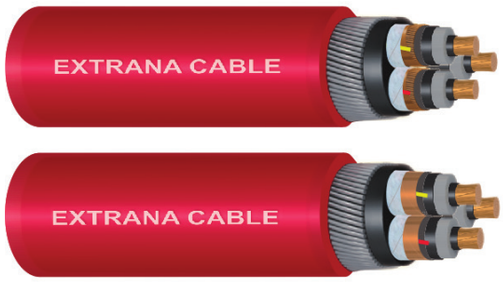
Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30ºC (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,138	0,400	159	147	112	3,73	1,90
35	0,668	0,154	0,376	192	176	134	5,18	2,05
50	0,493	0,170	0,361	229	207	158	7,36	2,21
70	0,342	0,193	0,338	283	252	194	10,26	2,44
95	0,246	0,218	0,323	341	300	232	13,88	2,69
120	0,195	0,238	0,312	391	341	264	17,49	2,89
150	0,158	0,254	0,304	442	381	296	21,81	3,05
185	0,126	0,281	0,294	503	428	335	26,86	3,33
240	0,096	0,314	0,284	587	492	387	34,78	3,70
300	0,077	0,344	0,276	664	550	435	43,41	4,06
400	0,060	0,382	0,261	760	625	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSERY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSERY 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,1	66,9	1070	7502	0,524
50	8,2	22,2	5,5	3,2	70,1	1122	8476	0,387
70	9,8	23,8	5,5	3,4	75,3	1205	10430	0,268
95	11,6	25,6	5,5	3,5	79,5	1272	11894	0,193
120	13,1	27,1	5,5	3,7	83,4	1335	13400	0,153
150	14,3	28,3	5,5	3,7	86,1	1378	14567	0,124
185	16,2	30,2	5,5	3,9	90,7	1451	16479	0,0991
240	18,2	32,2	5,5	4,1	95,6	1530	18962	0,0754
300	20,3	34,3	5,5	4,2	100,5	1608	21350	0,0601
400	23,3	37,3	5,5	4,5	107,9	1727	25829	0,0470

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	0,668	0,154	0,376	193	175	134	5,18	2,05
50	0,493	0,170	0,361	229	206	158	7,36	2,21
70	0,342	0,193	0,338	284	252	194	10,26	2,44
95	0,246	0.218	0,323	343	300	232	13,88	2,69
120	0,195	0,238	0,312	393	340	264	17,49	2,89
150	0,158	0,254	0,304	444	380	296	21,81	3,05
185	0,126	0,281	0,294	504	427	335	26,86	3,33
240	0,096	0,314	0,284	587	491	387	34,78	3,70
300	0,077	0,344	0,276	665	550	435	43,41	4,06
400	0,060	0,326	0,273	760	625	477	57,79	4,51

N2XSERY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSERY 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,7	83,6	1338	11649	0,387
70	9,8	28,8	8,0	3,8	87,3	1397	12941	0,268
95	11,6	30,6	8,0	3,9	91,6	1466	14589	0,193
120	13,1	32,1	8,0	4,0	95,2	1523	16095	0,153
150	14,3	33,3	8,0	4,1	98,1	1570	17380	0,124
185	16,2	35,2	8,0	4,3	102,8	1645	19436	0,0991
240	18,2	37,2	8,0	4,4	107,4	1719	21962	0,0754
300	20,3	39,3	8,0	4,6	112,5	1800	24532	0,0601
400	23,3	42,3	8,0	4,8	119,7	1915	29137	0,0470

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,493	0,170	0,361	232	205	158	7,36	2,21
70	0,342	0,193	0,338	287	250	194	10,26	2,44
95	0,246	0.218	0,323	345	298	232	13,88	2,69
120	0,195	0,238	0,312	395	338	264	17,49	2,89
150	0,158	0,254	0,304	445	378	296	21,81	3,05
185	0,126	0,281	0,294	506	426	335	26,86	3,33
240	0,096	0,314	0,284	589	490	387	34,78	3,70
300	0,077	0,344	0,276	664	547	435	43,41	4,06
400	0,060	0,250	0,297	766	626	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSERY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSERY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,6	50,9	611	4345	1,200
35	6,9	14,9	2,5	2,6	52,4	629	4567	0,868
50	8,2	16,2	2,5	2,7	55,5	666	5135	0,641
70	9,8	17,8	2,5	2,9	59,6	715	5856	0,443
95	11,6	19,6	2,5	3,0	63,8	766	6652	0,320
120	13,1	21,1	2,5	3,1	67,4	809	7433	0,253
150	14,3	22,3	2,5	3,2	70,3	844	8080	0,206
185	16,2	24,2	2,5	3,4	76,2	915	9880	0,164
240	18,2	26,4	2,6	3,6	81,6	979	11256	0,125
300	20,3	28,9	2,8	3,8	87,6	1051	12790	0,100
400	23,3	32,3	3,0	4,1	95,8	1150	15295	0,0778

3 CORE 3,6/6(7,2) KV

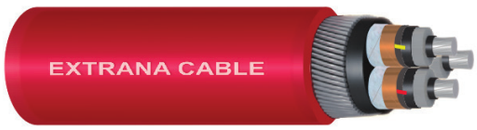
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,191	0,346	111	101	87	2,49	1,90
35	1,113	0,216	0,326	133	130	104	3,45	2,05
50	0,822	0,240	0,314	159	155	123	4,89	2,21
70	0,568	0,279	0,296	198	190	150	6,81	2,44
95	0,410	0,318	0,284	239	228	180	9,19	2,69
120	0,324	0,349	0,276	277	259	206	11,58	2,89
150	0,264	0,376	0,269	314	291	231	14,43	3,05
185	0,210	0,419	0,262	360	330	262	17,76	3,33
240	0,160	0,459	0,256	420	384	304	22,98	3,70
300	0,128	0,481	0,253	479	412	343	28,67	4,06
400	0,100	0,511	0,243	591	493	432	38,14	4,51

NA2XSERY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSERY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,7	55,2	662	4940	1,200
35	6,9	16,7	3,4	2,8	56,9	683	5239	0,868
50	8,2	18,0	3,4	2,9	60,0	720	5801	0,641
70	9,8	19,6	3,4	3,0	63,8	766	6512	0,443
95	11,6	21,4	3,4	3,2	68,3	820	7432	0,320
120	13,1	22,9	3,4	3,3	71,8	862	8238	0,253
150	14,3	24,1	3,4	3,4	76,0	912	9623	0,206
185	16,2	26,0	3,4	3,6	80,7	969	10768	0,164
240	18,2	28,0	3,4	3,7	85,4	1025	12076	0,125
300	20,3	30,1	3,4	3,9	90,4	1085	13424	0,100
400	23,3	33,1	3,4	4,1	97,6	1171	15762	0,0778

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,161	0,372	111	102	87	2,49	1,90
35	1,113	0,181	0,350	133	131	104	3,45	2,05
50	0,822	0,200	0,336	160	156	123	4,89	2,21
70	0,568	0,230	0,316	199	191	150	6,81	2,44
95	0,410	0,261	0,303	240	229	180	9,19	2,69
120	0,324	0,286	0,293	278	260	206	11,58	2,89
150	0,264	0,306	0,285	315	292	231	14,43	3,05
185	0,210	0,341	0,277	361	331	262	17,76	3,33
240	0,160	0,382	0,268	421	385	304	22,98	3,70
300	0,128	0,420	0,261	480	413	343	28,67	4,06
400	0,100	0,467	0,248	592	494	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSERY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSERY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,9	60,5	726	5774	1,200
35	6,9	18,9	4,5	3,0	62,3	748	6095	0,868
50	8,2	20,2	4,5	3,1	65,4	785	6691	0,641
70	9,8	21,8	4,5	3,2	69,1	829	7441	0,443
95	11,6	23,6	4,5	3,4	74,9	899	9100	0,320
120	13,1	25,1	4,5	3,5	78,4	941	9986	0,253
150	14,3	26,3	4,5	3,6	81,3	976	10757	0,206
185	16,2	28,2	4,5	3,7	85,8	1030	11911	0,164
240	18,2	30,2	4,5	3,9	90,7	1089	13299	0,125
300	20,3	32,3	4,5	4,1	95,8	1150	14727	0,100
400	23,3	35,3	4,5	4,3	103,0	1236	17090	0,0778

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,138	0,400	111	102	87	2,49	1,90
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	204	186	150	6,81	2,44
95	0,410	0,218	0,323	245	223	180	9,19	2,69
120	0,324	0,238	0,312	282	255	206	11,58	2,89
150	0,264	0,254	0,304	319	283	231	14,43	3,05
185	0,210	0,281	0,294	365	321	262	17,76	3,33
240	0,160	0,314	0,284	425	372	304	22,98	3,70
300	0,128	0,344	0,276	481	414	343	28,67	4,06
400	0,100	0,382	0,261	593	495	432	38,14	4,51

NA2XSERY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSERY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,1	66,9	803	6864	0,868
50	8,2	22,2	5,5	3,2	70,1	841	7508	0,641
70	9,8	23,8	5,5	3,4	75,3	904	9078	0,443
95	11,6	25,6	5,5	3,5	79,5	954	10027	0,320
120	13,1	27,1	5,5	3,7	83,4	1001	11082	0,253
150	14,3	28,3	5,5	3,7	86,1	1033	11782	0,206
185	16,2	30,2	5,5	3,9	90,7	1089	13006	0,164
240	18,2	32,2	5,5	4,1	95,6	1147	14463	0,125
300	20,3	34,3	5,5	4,2	100,5	1206	15892	0,100
400	23,3	37,3	5,5	4,5	107,9	1295	18384	0,0778

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	199	191	150	6,81	2,44
95	0,410	0.218	0,323	242	228	180	9,19	2,69
120	0,324	0,238	0,312	280	260	206	11,58	2,89
150	0,264	0,254	0,304	318	292	231	14,43	3,05
185	0,210	0,281	0,294	365	331	262	17,76	3,33
240	0,160	0,314	0,284	425	385	304	22,98	3,70
300	0,128	0,344	0,276	481	437	343	28,67	4,06
400	0,100	0,326	0,273	593	495	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSERY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Wire Armoured , PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSERY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,7	83,6	1003	10680	0,641
70	9,8	28,8	8,0	3,8	87,3	1048	11590	0,443
95	11,6	30,6	8,0	3,9	91,6	1099	12722	0,32
120	13,1	32,1	8,0	4,0	95,2	1143	13778	0,253
150	14,3	33,3	8,0	4,1	98,1	1177	14595	0,206
185	16,2	35,2	8,0	4,3	102,8	1234	15962	0,164
240	18,2	37,2	8,0	4,4	107,4	1289	17464	0,125
300	20,3	39,3	8,0	4,6	112,5	1350	19074	0,100
400	23,3	42,3	8,0	4,8	119,7	1437	21692	0,0778

3 CORE 18/30 (36) KV

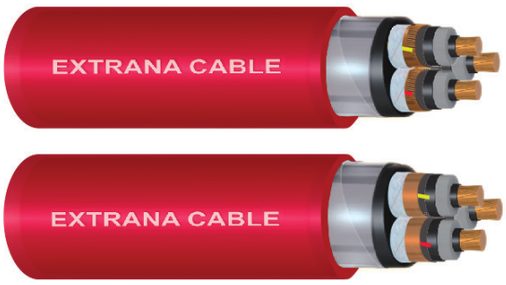
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,822	0,170	0,361	162	155	123	4,89	2,21
70	0,568	0,193	0,338	205	187	150	6,81	2,44
95	0,410	0.218	0,323	246	224	180	9,19	2,69
120	0,324	0,238	0,312	283	256	206	11,58	2,89
150	0,264	0,254	0,304	320	284	231	14,43	3,05
185	0,210	0,281	0,294	365	322	262	17,76	3,33
240	0,160	0,314	0,284	426	373	304	22,98	3,70
300	0,128	0,344	0,276	488	415	343	28,67	4,06
400	0,100	0,250	0,297	594	496	432	38,14	4,51

N2XSEBY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEBY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,4	46,3	925	3997	0,727
35	6,9	14,9	2,5	2,5	48,0	959	4397	0,524
50	8,2	16,2	2,5	2,6	51,1	1021	5222	0,387
70	9,8	17,8	2,5	2,7	55,0	1099	6241	0,268
95	11,6	19,6	2,5	2,9	59,4	1187	7535	0,193
120	13,1	21,1	2,5	3,0	63,0	1259	8706	0,153
150	14,3	22,3	2,5	3,1	65,9	1317	9779	0,124
185	16,2	24,2	2,5	3,2	70,3	1405	11383	0,0991
240	18,2	26,4	2,6	3,4	75,7	1513	13673	0,0754
300	20,3	28,9	2,8	3,6	82,9	1657	17372	0,0601
400	23,3	32,3	3,0	3,9	91,1	1821	21778	0,0470

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

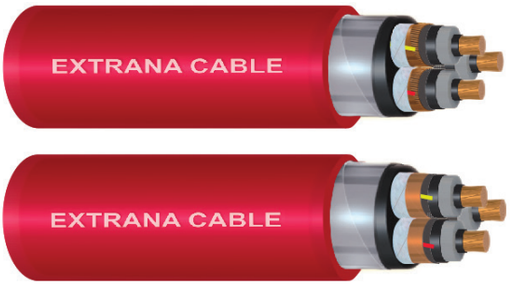
Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,191	0,346	152	146	112	3,73	1,90
35	0,668	0,216	0,326	184	175	134	5,18	2,05
50	0,493	0,240	0,314	219	206	158	7,36	2,21
70	0,342	0,279	0,296	273	251	194	10,26	2,44
95	0,246	0,318	0,284	330	299	232	13,88	2,69
120	0,195	0,349	0,276	379	339	264	17,49	2,89
150	0,158	0,376	0,269	430	380	296	21,81	3,05
185	0,126	0,419	0,262	491	427	335	26,86	3,33
240	0,096	0,459	0,256	575	492	387	34,78	3,70
300	0,077	0,481	0,253	651	549	435	43,41	4,06
400	0,060	0,511	0,243	758	623	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEBY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEBY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,6	50,8	1015	4572	0,727
35	6,9	16,7	3,4	2,6	52,3	1045	4960	0,524
50	8,2	18,0	3,4	2,7	55,4	1107	5812	0,387
70	9,8	19,6	3,4	2,9	59,4	1187	6880	0,268
95	11,6	21,4	3,4	3,0	63,7	1273	8200	0,193
120	13,1	22,9	3,4	3,1	67,2	1343	9392	0,153
150	14,3	24,1	3,4	3,2	70,1	1401	10490	0,124
185	16,2	26,0	3,4	3,4	74,8	1495	12194	0,0991
240	18,2	28,0	3,4	3,6	80,9	1617	15772	0,0754
300	20,3	30,1	3,4	3,7	85,7	1713	17998	0,0601
400	23,3	33,1	3,4	4,0	93,1	1861	22257	0,0470

3 CORE 6/10 (12) KV

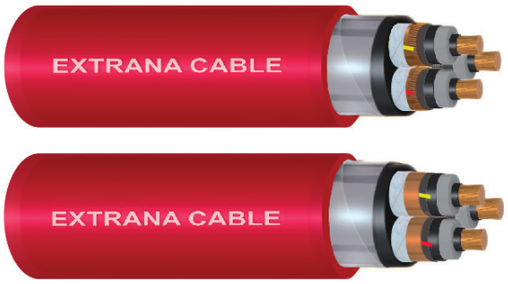
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,161	0,372	154	146	112	112	1,90
35	0,668	0,181	0,350	186	175	134	134	2,05
50	0,493	0,200	0,336	222	205	158	158	2,21
70	0,342	0,230	0,316	276	251	194	194	2,44
95	0,246	0,261	0,303	333	299	232	232	2,69
120	0,195	0,286	0,293	382	339	264	264	2,89
150	0,158	0,306	0,285	433	380	296	296	3,05
185	0,126	0,341	0,277	493	427	335	335	3,33
240	0,096	0,382	0,268	576	491	387	387	3,70
300	0,077	0,420	0,261	654	550	435	435	4,06
400	0,060	0,467	0,248	789	624	477	477	4,51

N2XSEBY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEBY 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,8	56,1	1121	5308	0,727
35	6,9	18,9	4,5	2,8	57,7	1153	5717	0,524
50	8,2	20,2	4,5	2,9	60,8	1215	6605	0,387
70	9,8	21,8	4,5	3,0	64,5	1289	7677	0,268
95	11,6	23,6	4,5	3,2	69,0	1379	9079	0,193
120	13,1	25,1	4,5	3,3	72,5	1449	10322	0,153
150	14,3	26,3	4,5	3,4	75,4	1507	11453	0,124
185	16,2	28,2	4,5	3,6	81,3	1625	14542	0,0991
240	18,2	30,2	4,5	3,7	86,0	1719	16870	0,0754
300	20,3	32,3	4,5	3,9	91,1	1821	19223	0,0601
400	23,3	35,3	4,5	4,1	98,3	1965	23514	0,0470

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

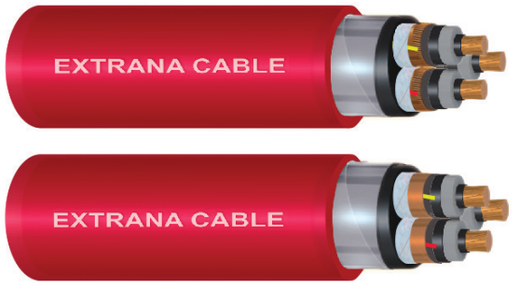
Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,138	0,400	156	146	112	3,73	1,90
35	0,668	0,154	0,376	189	174	134	5,18	2,05
50	0,493	0,170	0,361	224	205	158	7,36	2,21
70	0,342	0,193	0,338	278	250	194	10,26	2,44
95	0,246	0,218	0,323	336	298	232	13,88	2,69
120	0,195	0,238	0,312	385	339	264	17,49	2,89
150	0,158	0,254	0,304	436	379	296	21,81	3,05
185	0,126	0,281	0,294	495	426	335	26,86	3,33
240	0,096	0,314	0,284	578	490	387	34,78	3,70
300	0,077	0,344	0,276	654	546	435	43,41	4,06
400	0,060	0,382	0,261	760	625	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEBY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEBY 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,0	62,5	1249	6445	0,524
50	8,2	22,2	5,5	3,1	65,7	1313	7384	0,387
70	9,8	23,8	5,5	3,2	69,4	1387	8495	0,268
95	11,6	25,6	5,5	3,3	73,6	1471	9883	0,193
120	13,1	27,1	5,5	3,5	77,5	1549	11240	0,153
150	14,3	28,3	5,5	3,6	81,6	1631	13738	0,124
185	16,2	30,2	5,5	3,7	86,0	1719	15552	0,0991
240	18,2	32,2	5,5	3,9	90,9	1817	17992	0,0754
300	20,3	34,3	5,5	4,1	96,0	1919	20400	0,0601
400	23,3	37,3	5,5	4,3	103,2	2063	24766	0,0470

3 CORE 12/20 (24) KV

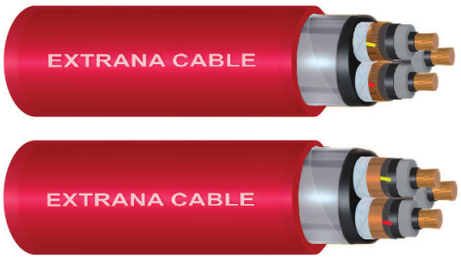
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	0,668	0,154	0,376	190	174	134	5,18	2,05
50	0,493	0,170	0,361	226	205	158	7,36	2,21
70	0,342	0,193	0,338	280	250	194	10,26	2,44
95	0,246	0.218	0,323	338	298	232	13,88	2,69
120	0,195	0,238	0,312	387	338	264	17,49	2,89
150	0,158	0,254	0,304	437	378	296	21,81	3,05
185	0,126	0,281	0,294	497	426	335	26,86	3,33
240	0,096	0,314	0,284	580	488	387	34,78	3,70
300	0,077	0,344	0,276	655	545	435	43,41	4,06
400	0,060	0,326	0,273	760	625	477	57,79	4,51

N2XSEBY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEBY 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,5	77,7	1553	9494	0,387
70	9,8	28,8	8,0	3,6	82,6	1651	12052	0,268
95	11,6	30,6	8,0	3,8	87,1	1741	13689	0,193
120	13,1	32,1	8,0	3,9	90,7	1813	15167	0,153
150	14,3	33,3	8,0	4,0	93,6	1871	16452	0,124
185	16,2	35,2	8,0	4,1	98,1	1961	18407	0,0991
240	18,2	37,2	8,0	4,3	102,9	2057	20943	0,0754
300	20,3	39,3	8,0	4,5	108,0	2159	23482	0,0601
400	23,3	42,3	8,0	4,7	115,2	2303	28031	0,0470

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

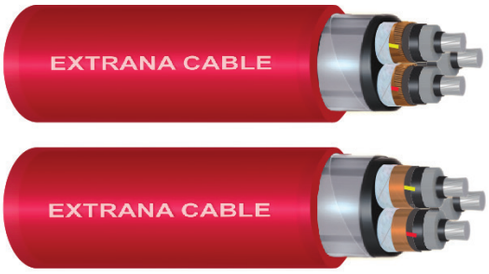
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,493	0,170	0,361	229	204	158	7,36	2,21
70	0,342	0,193	0,338	282	249	194	10,26	2,44
95	0,246	0.218	0,323	340	297	232	13,88	2,69
120	0,195	0,238	0,312	390	336	264	17,49	2,89
150	0,158	0,254	0,304	441	376	296	21,81	3,05
185	0,126	0,281	0,294	500	423	335	26,86	3,33
240	0,096	0,314	0,284	582	486	387	34,78	3,70
300	0,077	0,344	0,276	656	543	435	43,41	4,06
400	0,060	0,250	0,297	766	626	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEBY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEBY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6 (7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,4	46,3	555	3512	1,200
35	6,9	14,9	2,5	2,5	48,0	575	3759	0,868
50	8,2	16,2	2,5	2,6	51,1	613	4254	0,641
70	9,8	17,8	2,5	2,7	55,0	659	4890	0,443
95	11,6	19,6	2,5	2,9	59,4	712	5668	0,320
120	13,1	21,1	2,5	3,0	63,0	755	6389	0,253
150	14,3	22,3	2,5	3,1	65,9	790	6993	0,206
185	16,2	24,2	2,5	3,2	70,3	843	7910	0,164
240	18,2	26,4	2,6	3,4	75,7	908	9174	0,125
300	20,3	28,9	2,8	3,6	82,9	994	11914	0,100
400	23,3	32,3	3,0	3,9	91,1	1093	14334	0,0778

3 CORE 3,6/6 (7,2) KV

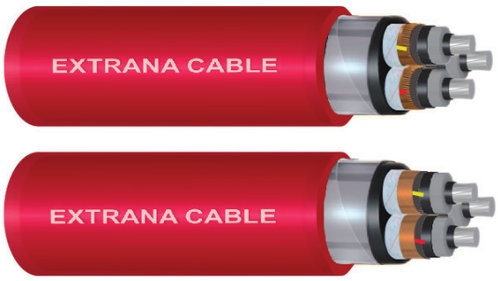
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,191	0,346	111	101	87	2,49	1,90
35	1,113	0,216	0,326	133	130	104	3,45	2,05
50	0,822	0,240	0,314	159	155	123	4,89	2,21
70	0,568	0,279	0,296	196	190	150	6,81	2,44
95	0,410	0,318	0,284	239	228	180	9,19	2,69
120	0,324	0,349	0,276	277	259	206	11,58	2,89
150	0,264	0,376	0,269	314	291	231	14,43	3,05
185	0,210	0,419	0,262	360	330	262	17,76	3,33
240	0,160	0,459	0,256	420	384	304	22,98	3,70
300	0,128	0,481	0,253	479	412	343	28,67	4,06
400	0,100	0,511	0,243	591	493	432	38,14	4,51

NA2XSEBY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEBY 6/10 (12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,6	50,8	609	4087	1,200
35	6,9	16,7	3,4	2,6	52,3	627	4322	0,868
50	8,2	18,0	3,4	2,7	55,4	664	4844	0,641
70	9,8	19,6	3,4	2,9	59,4	712	5528	0,443
95	11,6	21,4	3,4	3,0	63,7	764	6333	0,320
120	13,1	22,9	3,4	3,1	67,2	806	7074	0,253
150	14,3	24,1	3,4	3,2	70,1	841	7704	0,206
185	16,2	26,0	3,4	3,4	74,8	897	8721	0,164
240	18,2	28,0	3,4	3,6	80,9	970	11274	0,125
300	20,3	30,1	3,4	3,7	85,7	1028	12540	0,100
400	23,3	33,1	3,4	4,0	93,1	1117	14812	0,0778

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

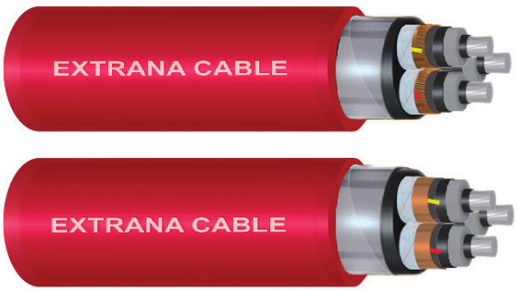
Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,161	0,372	111	102	87	87	1,90
35	1,113	0,181	0,350	133	131	104	104	2,05
50	0,822	0,200	0,336	159	156	123	123	2,21
70	0,568	0,230	0,316	196	191	150	150	2,44
95	0,410	0,261	0,303	238	229	180	180	2,69
120	0,324	0,286	0,293	274	260	206	206	2,89
150	0,264	0,306	0,285	309	292	231	231	3,05
185	0,210	0,341	0,277	354	331	262	262	3,33
240	0,160	0,382	0,268	415	385	304	304	3,70
300	0,128	0,420	0,261	472	413	343	343	4,06
400	0,100	0,467	0,248	592	494	432	432	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEBY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEBY 8,7/15 (17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation
or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,8	56,1	673	4824	1,200
35	6,9	18,9	4,5	2,8	57,7	692	5080	0,868
50	8,2	20,2	4,5	2,9	60,8	729	5637	0,641
70	9,8	21,8	4,5	3,0	64,5	773	6326	0,443
95	11,6	23,6	4,5	3,2	69,0	827	7212	0,320
120	13,1	25,1	4,5	3,3	72,5	869	8005	0,253
150	14,3	26,3	4,5	3,4	75,4	904	8668	0,206
185	16,2	28,2	4,5	3,6	81,3	975	11069	0,164
240	18,2	30,2	4,5	3,7	86,0	1031	12372	0,125
300	20,3	32,3	4,5	3,9	91,1	1093	13765	0,100
400	23,3	35,3	4,5	4,1	98,3	1179	16070	0,0778

3 CORE 8,7/15 (17,5) KV

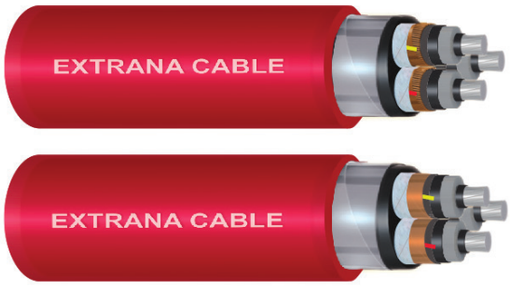
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,138	0,400	111	102	87	2,49	1,90
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	204	186	150	6,81	2,44
95	0,410	0,218	0,323	245	223	180	9,19	2,69
120	0,324	0,238	0,312	282	255	206	11,58	2,89
150	0,264	0,254	0,304	319	283	231	14,43	3,05
185	0,210	0,281	0,294	365	321	262	17,76	3,33
240	0,160	0,314	0,284	425	372	304	22,98	3,70
300	0,128	0,344	0,276	481	414	343	28,67	4,06
400	0,100	0,382	0,261	593	495	432	38,14	4,51

NA2XSEBY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEBY 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,0	62,5	749	5807	0,868
50	8,2	22,2	5,5	3,1	65,7	788	6416	0,641
70	9,8	23,8	5,5	3,2	69,4	832	7143	0,443
95	11,6	25,6	5,5	3,3	73,6	883	8016	0,320
120	13,1	27,1	5,5	3,5	77,5	929	8923	0,253
150	14,3	28,3	5,5	3,6	81,6	979	10952	0,206
185	16,2	30,2	5,5	3,7	86,0	1031	12079	0,164
240	18,2	32,2	5,5	3,9	90,9	1090	13494	0,125
300	20,3	34,3	5,5	4,1	96,0	1151	14942	0,100
400	23,3	37,3	5,5	4,3	103,2	1238	17321	0,0778

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

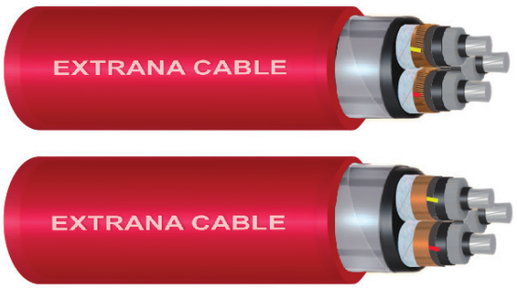
Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	199	191	150	6,81	2,44
95	0,410	0.218	0,323	242	228	180	9,19	2,69
120	0,324	0,238	0,312	280	260	206	11,58	2,89
150	0,264	0,254	0,304	318	292	231	14,43	3,05
185	0,210	0,281	0,294	365	331	262	17,76	3,33
240	0,160	0,314	0,284	425	385	304	22,98	3,70
300	0,128	0,344	0,276	481	437	343	28,67	4,06
400	0,100	0,326	0,273	593	495	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEBY

Aluminium conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape Screen, Galvanized Steel Tape Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEBY 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,5	77,7	932	8526	0,641
70	9,8	28,8	8,0	3,6	82,6	991	10701	0,443
95	11,6	30,6	8,0	3,8	87,1	1045	11822	0,320
120	13,1	32,1	8,0	3,9	90,7	1088	12850	0,253
150	14,3	33,3	8,0	4,0	93,6	1123	13666	0,206
185	16,2	35,2	8,0	4,1	98,1	1177	14934	0,164
240	18,2	37,2	8,0	4,3	102,9	1234	16445	0,125
300	20,3	39,3	8,0	4,5	108,0	1295	18024	0,100
400	23,3	42,3	8,0	4,7	115,2	1382	20587	0,0778

3 CORE 18/30 (36) KV

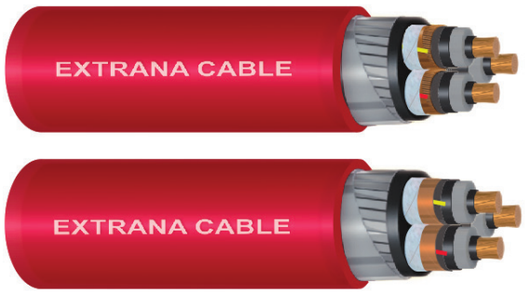
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,822	0,170	0,361	162	155	123	4,89	2,21
70	0,568	0,193	0,338	205	187	150	6,81	2,44
95	0,410	0.218	0,323	246	224	180	9,19	2,69
120	0,324	0,238	0,312	283	256	206	11,58	2,89
150	0,264	0,254	0,304	320	284	231	14,43	3,05
185	0,210	0,281	0,294	365	322	262	17,76	3,33
240	0,160	0,314	0,284	426	373	304	22,98	3,70
300	0,128	0,344	0,276	482	415	343	28,67	4,06
400	0,100	0,250	0,297	594	496	432	38,14	4,51

N2XSEFGbY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape, Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEFGbY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,5	46,7	840	3654	0,727
35	6,9	14,9	2,5	2,5	48,2	867	4013	0,524
50	8,2	16,2	2,5	2,6	51,3	923	4809	0,387
70	9,8	17,8	2,5	2,7	55,2	993	5777	0,268
95	11,6	19,6	2,5	2,9	59,6	1072	7037	0,193
120	13,1	21,1	2,5	3,0	63,2	1137	8190	0,153
150	14,3	22,3	2,5	3,1	66,1	1189	9239	0,124
185	16,2	24,2	2,5	3,2	70,5	1268	10804	0,0991
240	18,2	26,4	2,6	3,4	75,9	1366	13033	0,0754
300	20,3	28,9	2,8	3,6	81,9	1474	15319	0,0601
400	23,3	32,3	3,0	3,9	90,1	1621	19506	0,0470

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,191	0,346	143	132	112	3,73	1,90
35	0,668	0,216	0,326	172	170	134	5,18	2,05
50	0,493	0,240	0,314	205	201	158	7,36	2,21
70	0,342	0,279	0,296	256	245	194	10,26	2,44
95	0,246	0,318	0,284	312	294	232	13,88	2,69
120	0,195	0,349	0,276	359	334	264	17,49	2,89
150	0,158	0,376	0,269	409	375	296	21,81	3,05
185	0,126	0,419	0,262	468	424	335	26,86	3,33
240	0,096	0,459	0,256	552	492	387	34,78	3,70
300	0,077	0,481	0,253	627	552	435	43,41	4,06
400	0,060	0,511	0,253	758	623	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEFGbY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape, Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEFGbY 6/10(12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,6	51,0	917	4167	0,727
35	6,9	16,7	3,4	2,6	52,5	944	4539	0,524
50	8,2	18,0	3,4	2,7	55,6	1000	5363	0,387
70	9,8	19,6	3,4	2,9	59,6	1072	6381	0,268
95	11,6	21,4	3,4	3,0	63,9	1150	7665	0,193
120	13,1	22,9	3,4	3,1	67,4	1213	8842	0,153
150	14,3	24,1	3,4	3,2	70,3	1265	9891	0,124
185	16,2	26,0	3,4	3,4	75,0	1349	11579	0,0991
240	18,2	28,0	3,4	3,5	79,7	1434	13743	0,0754
300	20,3	30,1	3,4	3,7	84,7	1524	15878	0,0601
400	23,3	33,1	3,4	3,9	91,9	1654	19904	0,0470

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,161	0,372	143	133	112	3,73	1,90
35	0,668	0,181	0,350	173	171	134	5,18	2,05
50	0,493	0,200	0,336	206	202	158	7,36	2,21
70	0,342	0,230	0,316	257	246	194	10,26	2,44
95	0,246	0,261	0,303	313	295	232	13,88	2,69
120	0,195	0,286	0,293	360	335	264	17,49	2,89
150	0,158	0,306	0,285	410	376	296	21,81	3,05
185	0,126	0,341	0,277	469	425	335	26,86	3,33
240	0,096	0,382	0,268	553	493	387	34,78	3,70
300	0,077	0,420	0,261	628	553	435	43,41	4,06
400	0,060	0,467	0,258	759	624	477	57,79	4,51

N2XSEFGbY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape, Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEFGbY 8,7/15(17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,8	56,3	1013	4845	0,727
35	6,9	18,9	4,5	2,8	57,9	1042	5235	0,524
50	8,2	20,2	4,5	2,9	61,0	1097	6093	0,387
70	9,8	21,8	4,5	3,0	64,7	1164	7145	0,268
95	11,6	23,6	4,5	3,2	69,2	1245	8511	0,193
120	13,1	25,1	4,5	3,3	72,7	1308	9713	0,153
150	14,3	26,3	4,5	3,4	75,6	1360	10821	0,124
185	16,2	28,2	4,5	3,6	80,3	1445	12537	0,0991
240	18,2	30,2	4,5	3,7	85,0	1529	14736	0,0754
300	20,3	32,3	4,5	3,9	90,1	1621	16951	0,0601
400	23,3	35,3	4,5	4,1	97,3	1751	21059	0,0470

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	0,927	0,138	0,400	143	132	112	3,73	1,90
35	0,668	0,154	0,376	173	171	134	5,18	2,05
50	0,493	0,170	0,361	206	202	158	7,36	2,21
70	0,342	0,193	0,338	257	246	194	10,26	2,44
95	0,246	0,218	0,323	313	295	232	13,88	2,69
120	0,195	0,238	0,312	360	335	264	17,49	2,89
150	0,158	0,254	0,304	410	376	296	21,81	3,05
185	0,126	0,281	0,294	469	456	335	26,86	3,33
240	0,096	0,314	0,284	553	492	387	34,78	3,70
300	0,077	0,344	0,276	629	554	435	43,41	4,06
400	0,060	0,382	0,271	760	625	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

N2XSEFGbY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape, Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

N2XSEFGbY 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,0	62,7	1128	5918	0,524
50	8,2	22,2	5,5	3,1	65,9	1186	6824	0,387
70	9,8	23,8	5,5	3,2	69,6	1252	7915	0,268
95	11,6	25,6	5,5	3,3	73,8	1328	9269	0,193
120	13,1	27,1	5,5	3,5	77,7	1398	10581	0,153
150	14,3	28,3	5,5	3,6	80,6	1450	11719	0,124
185	16,2	30,2	5,5	3,7	85,0	1529	13418	0,0991
240	18,2	32,2	5,5	3,9	89,9	1618	15729	0,0754
300	20,3	34,3	5,5	4,0	94,8	1706	17973	0,0601
400	23,3	37,3	5,5	4,3	102,2	1839	22181	0,0470

3 CORE 12/20 (24) KV

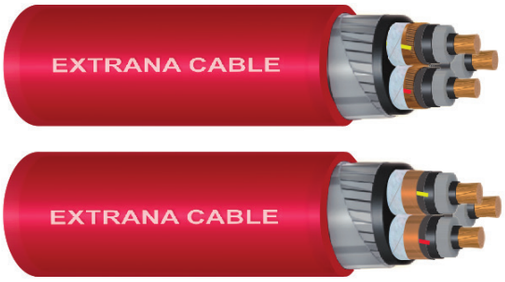
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
35	0,668	0,154	0,376	173	171	134	5,18	2,05
50	0,493	0,170	0,361	206	202	158	7,36	2,21
70	0,342	0,193	0,338	257	246	194	10,26	2,44
95	0,246	0.218	0,323	313	295	232	13,88	2,69
120	0,195	0,238	0,312	360	335	264	17,49	2,89
150	0,158	0,254	0,304	410	376	296	21,81	3,05
185	0,126	0,281	0,294	469	425	335	26,86	3,33
240	0,096	0,314	0,284	553	492	387	34,78	3,70
300	0,077	0,344	0,276	629	554	435	43,41	4,06
400	0,060	0,326	0,282	760	625	477	57,79	4,51

N2XSEFGbY

Copper conductor, XLPE Insulated, with or without water sealing, Copper Wire/Tape, Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



N2XSEFGbY 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,5	77,9	1402	8829	0,387
70	9,8	28,8	8,0	3,6	81,6	1468	10013	0,268
95	11,6	30,6	8,0	3,7	85,9	1546	11494	0,193
120	13,1	32,1	8,0	3,9	89,7	1614	12913	0,153
150	14,3	33,3	8,0	4,0	92,6	1666	14125	0,124
185	16,2	35,2	8,0	4,1	97,1	1747	15961	0,0991
240	18,2	37,2	8,0	4,3	101,9	1834	18372	0,0754
300	20,3	39,3	8,0	4,4	106,8	1922	20742	0,0601
400	23,3	42,3	8,0	4,7	114,2	2055	25139	0,0470

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,493	0,170	0,361	207	203	158	7,36	2,21
70	0,342	0,193	0,338	258	247	194	10,26	2,44
95	0,246	0.218	0,323	314	296	232	13,88	2,69
120	0,195	0,238	0,312	361	336	264	17,49	2,89
150	0,158	0,254	0,304	411	377	296	21,81	3,05
185	0,126	0,281	0,294	470	426	335	26,86	3,33
240	0,096	0,314	0,284	554	488	387	34,78	3,70
300	0,077	0,344	0,276	630	555	435	43,41	4,06
400	0,060	0,250	0,307	766	626	477	57,79	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEFGbY

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape,
Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEFGbY 3.6/6 (7.2) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 3,6/6(7,2) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	14,0	2,5	2,5	46,7	560	3169	1,200
35	6,9	14,9	2,5	2,5	48,2	578	3376	0,868
50	8,2	16,2	2,5	2,6	51,3	615	3841	0,641
70	9,8	17,8	2,5	2,7	55,2	662	4426	0,443
95	11,6	19,6	2,5	2,9	59,6	715	5170	0,320
120	13,1	21,1	2,5	3,0	63,2	758	5873	0,253
150	14,3	22,3	2,5	3,1	66,1	793	6454	0,206
185	16,2	24,2	2,5	3,2	70,5	846	7331	0,164
240	18,2	26,4	2,6	3,4	75,9	910	8534	0,125
300	20,3	28,9	2,8	3,6	81,9	982	9861	0,100
400	23,3	32,3	3,0	3,9	90,1	1081	12061	0,0778

3 CORE 3,6/6(7,2) KV

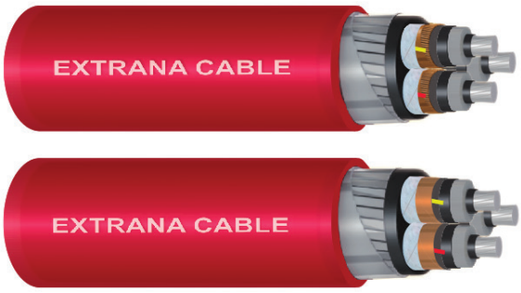
DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,191	0,346	111	101	87	2,49	1,90
35	1,113	0,216	0,326	133	130	104	3,45	2,05
50	0,822	0,240	0,314	159	155	123	4,89	2,21
70	0,568	0,279	0,296	198	190	150	6,81	2,44
95	0,410	0,318	0,284	239	228	180	9,19	2,69
120	0,324	0,349	0,276	277	259	206	11,58	2,89
150	0,264	0,376	0,269	314	291	231	14,43	3,05
185	0,210	0,419	0,262	360	330	262	17,76	3,33
240	0,160	0,459	0,256	420	384	304	22,98	3,70
300	0,128	0,481	0,253	479	412	343	28,67	4,06
400	0,100	0,511	0,253	591	493	432	38,14	4,51

NA2XSEFGbY

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape,
Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2



NA2XSEFGbY 6/10(12) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	15,8	3,4	2,6	51,0	612	3683	1,200
35	6,9	16,7	3,4	2,6	52,5	630	3902	0,868
50	8,2	18,0	3,4	2,7	55,6	667	4394	0,641
70	9,8	19,6	3,4	2,9	59,6	715	5030	0,443
95	11,6	21,4	3,4	3,0	63,9	766	5798	0,320
120	13,1	22,9	3,4	3,1	67,4	808	6524	0,253
150	14,3	24,1	3,4	3,2	70,3	843	7106	0,206
185	16,2	26,0	3,4	3,4	75,0	900	8106	0,164
240	18,2	28,0	3,4	3,5	79,7	956	9245	0,125
300	20,3	30,1	3,4	3,7	84,7	1016	10420	0,100
400	23,3	33,1	3,4	3,9	91,9	1102	12459	0,0778

3 CORE 6/10 (12) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,161	0,372	111	102	87	2,49	1,90
35	1,113	0,181	0,350	133	131	104	3,45	2,05
50	0,822	0,200	0,336	160	156	123	4,89	2,21
70	0,568	0,230	0,316	199	191	150	6,81	2,44
95	0,410	0,261	0,303	240	229	180	9,19	2,69
120	0,324	0,286	0,293	278	260	206	11,58	2,89
150	0,264	0,306	0,285	315	292	231	14,43	3,05
185	0,210	0,341	0,277	361	331	262	17,76	3,33
240	0,160	0,382	0,268	421	385	304	22,98	3,70
300	0,128	0,420	0,261	480	413	343	28,67	4,06
400	0,100	0,467	0,258	592	494	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEFGbY

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape,
Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEFGbY 8,7/15(17,5) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 25 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20°C
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
25	6,0	18,0	4,5	2,8	56,3	675	4360	1,200
35	6,9	18,9	4,5	2,8	57,9	694	4597	0,868
50	8,2	20,2	4,5	2,9	61,0	732	5125	0,641
70	9,8	21,8	4,5	3,0	64,7	776	5794	0,443
95	11,6	23,6	4,5	3,2	69,2	830	6644	0,320
120	13,1	25,1	4,5	3,3	72,7	872	7396	0,253
150	14,3	26,3	4,5	3,4	75,6	907	8036	0,206
185	16,2	28,2	4,5	3,6	80,3	963	9064	0,164
240	18,2	30,2	4,5	3,7	85,0	1020	10238	0,125
300	20,3	32,3	4,5	3,9	90,1	1081	11493	0,100
400	23,3	35,3	4,5	4,1	97,3	1167	13614	0,0778

3 CORE 8,7/15 (17,5) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90°C	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	μF/km	mH/km	A	A	A	kA/sec	kA/sec
25	1,539	0,138	0,400	111	102	87	2,49	1,90
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	204	186	150	6,81	2,44
95	0,410	0,218	0,323	245	223	180	9,19	2,69
120	0,324	0,238	0,312	282	255	206	11,58	2,89
150	0,264	0,254	0,304	319	283	231	14,43	3,05
185	0,210	0,281	0,294	365	321	262	17,76	3,33
240	0,160	0,314	0,284	425	372	304	22,98	3,70
300	0,128	0,344	0,276	481	414	343	28,67	4,06
400	0,100	0,382	0,271	593	495	432	38,14	4,51

NA2XSEFGbY

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape,
Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEFGbY 12/20 (24) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 35 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
35	6,9	20,9	5,5	3,0	62,7	752	5280	0,868
50	8,2	22,2	5,5	3,1	65,9	790	5856	0,641
70	9,8	23,8	5,5	3,2	69,6	835	6564	0,443
95	11,6	25,6	5,5	3,3	73,8	885	7402	0,320
120	13,1	27,1	5,5	3,5	77,7	932	8264	0,253
150	14,3	28,3	5,5	3,6	80,6	967	8934	0,206
185	16,2	30,2	5,5	3,7	85,0	1020	9945	0,164
240	18,2	32,2	5,5	3,9	89,9	1078	11231	0,125
300	20,3	34,3	5,5	4,0	94,8	1137	12515	0,100
400	23,3	37,3	5,5	4,3	102,2	1226	14737	0,0778

3 CORE 12/20 (24) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
35	1,113	0,154	0,376	139	132	104	3,45	2,05
50	0,822	0,170	0,361	161	154	123	4,89	2,21
70	0,568	0,193	0,338	199	191	150	6,81	2,44
95	0,410	0.218	0,323	242	228	180	9,19	2,69
120	0,324	0,238	0,312	280	260	206	11,58	2,89
150	0,264	0,254	0,304	318	292	231	14,43	3,05
185	0,210	0,281	0,294	365	331	262	17,76	3,33
240	0,160	0,314	0,284	425	385	304	22,98	3,70
300	0,128	0,344	0,276	481	437	343	28,67	4,06
400	0,100	0,326	0,282	593	495	432	38,14	4,51

EXTRANA® CABLE
Quality Cables, Quality Living

NA2XSEFGbY

Aluminium conductor, XLPE Insulated,
with or without water sealing, Copper Wire/Tape,
Galvanized Steel Flat Armoured, PVC Sheathed

SPLN 43-5, SNI IEC 60502-2

NA2XSEFGbY 18/30 (36) kV are normally used for installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

The conductors are compacted stranded (cm) with cross-sectional are 50 mm² to 400 mm². The outer sheath is made of flame retardant PVC.

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Conductor diameter (approx.)	Insulation diameter (approx.)	Nominal Thickness		Overall Cable Diameter (approx.)	Bending Radius	Cable Weight (approx.)	Max. DC Conductor Resistance at 20ºC
			Insulation	Sheath				
mm²	mm	mm	mm	mm	mm	mm	kg/km	Ω/km
50	8,2	27,2	8,0	3,5	77,9	934	7861	0,641
70	9,8	28,8	8,0	3,6	81,6	979	8662	0,443
95	11,6	30,6	8,0	3,7	85,9	1030	9627	0,320
120	13,1	32,1	8,0	3,9	89,7	1076	10596	0,253
150	14,3	33,3	8,0	4,0	92,6	1111	11340	0,206
185	16,2	35,2	8,0	4,1	97,1	1165	12487	0,164
240	18,2	37,2	8,0	4,3	101,9	1222	13874	0,125
300	20,3	39,3	8,0	4,4	106,8	1281	15284	0,100
400	23,3	42,3	8,0	4,7	114,2	1370	17694	0,0778

3 CORE 18/30 (36) KV

DIMENSIAL AND ELECTRICAL DATA

Cross-sectional area	Max. AC Conductor Resistance at 90ºC	Capacitance per-phase (approx.)	Inductance per-phase (approx.)	Max. Current Carrying Capacity at 30°C (*)			Max. Short Circ. current of conductor	Max. Short Circ. current of screen
				in air	in ground	In duct		
mm²	Ω/km	µF/km	mH/km	A	A	A	kA/sec	kA/sec
50	0,822	0,170	0,361	162	155	123	4,89	2,21
70	0,568	0,193	0,338	205	187	150	6,81	2,44
95	0,410	0.218	0,323	246	224	180	9,19	2,69
120	0,324	0,238	0,312	283	256	206	11,58	2,89
150	0,264	0,254	0,304	320	284	231	14,43	3,05
185	0,210	0,281	0,294	365	322	262	17,76	3,33
240	0,160	0,314	0,284	426	373	304	22,98	3,70
300	0,128	0,344	0,276	488	415	343	28,67	4,06
400	0,100	0,250	0,307	594	496	432	38,14	4,51

DERATING FACTORS

Table 1. Correction factors for ambient air temperatures other than 20 °C

Maximum conductor temperature °C	Ambient ground temperature °C							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.96	0.93	0.89	0.85	0.80	0.76

Table 2. Correction factors for ambient ground temperatures other than 20 °C

Maximum conductor temperature °C	Ambient ground temperature °C							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.96	0.93	0.89	0.85	0.80	0.76

Table 3. Correction factors for depths of laying other than 0.8 m for direct buried cables

Depth of laying mtr	Single-core cables		Three-core cables
	Nominal Conductor size mm²		
	≤185 mm²	>185 mm²	
0.5	1.04	1.06	1.04
0.6	1.02	1.04	1.03
1.0	0.98	0.97	0.98
1.25	0.96	0.95	0.96
1.5	0.95	0.93	0.95
1.75	0.94	0.91	0.94
2	0.93	0.90	0.93
2.5	0.91	0.88	0.91
3	0.90	0.86	0.90

Table 4. Correction factors for depths of laying other than 0,8 m for cables in ducts

Depth of laying mtr	Single-core cables		Three-core cables
	Nominal Conductor size mm²		
	≤185 mm²	>185 mm²	
0.5	1.04	1.05	1.03
0.6	1.02	1.03	1.02
1.0	0.98	0.97	0.99
1.25	0.96	0.95	0.97
1.5	0.95	0.93	0.96
1.75	0.94	0.92	0.95
2	0.93	0.91	0.94
2.5	0.91	0.89	0.93
3	0.90	0.88	0.92

Table 5. Correction factor for soil thermal resistivities other than 1,5 K.m/W for direct buried single-core cables

Nominal area off conductor mm²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.29	1.24	1.19	1.15	0.89	0.82	0.75
25	1.30	1.25	1.20	1.16	0.89	0.81	0.75
35	1.30	1.25	1.21	1.16	0.89	0.81	0.75
50	1.32	1.26	1.21	1.16	0.89	0.81	0.74
70	1.33	1.27	1.22	1.17	0.89	0.81	0.74
95	1.34	1.28	1.22	1.18	0.89	0.80	0.74
120	1.34	1.28	1.22	1.18	0.89	0.80	0.74
150	1.35	1.29	1.23	1.18	0.88	0.80	0.74
185	1.35	1.29	1.23	1.18	0.88	0.80	0.74
240	1.36	1.29	1.23	1.18	0.88	0.80	0.73
300	1.36	1.30	1.24	1.19	0.88	0.80	0.73
400	1.37	1.30	1.24	1.19	0.88	0.79	0.73

Table 6. Correction factor for soil thermal resistivities other than 1,5 K.m/W single-core cables in buried duct

Nominal area off conductor mm²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.20	1.17	1.14	1.11	0.92	0.85	0.79
25	1.21	1.17	1.14	1.12	0.91	0.85	0.79
35	1.21	1.18	1.15	1.12	0.91	0.84	0.79
50	1.21	1.18	1.15	1.12	0.91	0.84	0.79
70	1.22	1.19	1.15	1.12	0.91	0.84	0.78
95	1.23	1.19	1.16	1.13	0.91	0.84	0.78
120	1.123	1.20	1.16	1.13	0.91	0.84	0.78
150	1.24	1.20	1.16	1.13	0.91	0.83	0.78
185	1.24	1.20	1.17	1.13	0.91	0.83	0.78
240	1.25	1.21	1.17	1.14	0.90	0.83	0.77
300	1.25	1.21	1.17	1.14	0.90	0.83	0.77
400	1.25	1.21	1.17	1.14	0.90	0.83	0.77

Table 7. Correction factor for soil thermal resistivities other than 1,5 K.m/W for direct buried three-core cables

Nominal area off conductor mm²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.23	1.19	1.16	1.13	0.91	0.84	0.78
25	1.24	1.20	1.16	1.13	0.91	0.84	0.78
35	1.25	1.21	1.17	1.13	0.91	0.83	0.78
50	1.25	1.21	1.17	1.14	0.91	0.83	0.77
70	1.26	1.21	1.18	1.14	0.90	0.83	0.77
95	1.26	1.22	1.18	1.14	0.90	0.83	0.77
120	1.26	1.22	1.18	1.15	0.90	0.83	0.77
150	1.27	1.22	1.18	1.15	0.90	0.83	0.77
185	1.27	1.23	1.18	1.15	0.90	0.83	0.77
240	1.28	1.23	1.19	1.15	0.90	0.83	0.77
300	1.28	1.23	1.19	1.15	0.90	0.82	0.77
400	1.28	1.23	1.19	1.15	0.90	0.82	0.76

Table 8. Correction factor for soil thermal resistivities other than 1,5 K.m/W three-core cables in buried duct

Nominal area off conductor mm²	Values of soil thermal resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.12	1.11	1.09	1.08	0.94	0.89	0.84
25	1.14	1.12	1.10	1.08	0.94	0.89	0.84
35	1.14	1.12	1.10	1.08	0.94	0.88	0.84
50	1.14	1.12	1.10	1.08	0.94	0.88	0.84
70	1.15	1.13	1.11	1.09	0.94	0.88	0.83
95	1.15	1.13	1.11	1.09	0.94	0.88	0.83
120	1.15	1.13	1.11	1.09	0.93	0.88	0.83
150	1.16	1.13	1.11	1.09	0.93	0.88	0.83
185	1.16	1.14	1.11	1.09	0.93	0.87	0.83
240	1.16	1.14	1.12	1.10	0.93	0.87	0.82
300	1.17	1.14	1.12	1.10	0.93	0.87	0.82
400	1.17	1.14	1.12	1.10	0.92	0.86	0.81

Table 9. Correction factor for groups of three-core cables in horizontal formation laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.8	0.86	0.90	0.92	0.94
3	0.69	0.77	0.82	0.86	0.89
4	0.62	0.72	0.79	0.83	0.87
5	0.57	0.68	0.76	0.81	0.85
6	0.54	0.65	0.74	0.80	0.84
7	0.51	0.63	0.72	0.78	0.83
8	0.49	0.61	0.71	0.77	-
9	0.47	0.60	0.70	-	-
10	0.46	0.59	0.69	-	-
11	0.45	0.57	0.69	-	-
12	0.43	0.56	0.68	-	-

Table 10. Correction factor for groups of three-phase circuits of single-core cables laid direct in the ground

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.73	0.83	0.88	0.90	0.92
3	0.60	0.73	0.79	0.83	0.86
4	0.54	0.68	0.75	0.80	0.84
5	0.49	0.63	0.72	0.78	0.82
6	0.46	0.61	0.70	0.76	0.81
7	0.43	0.58	0.68	0.75	0.80
8	0.41	0.57	0.67	0.74	-
9	0.39	0.55	0.66	0.73	-
10	0.37	0.54	0.65	-	-
11	0.36	0.53	0.64	-	-
12	0.35	0.52	0.64	-	-

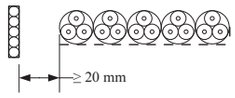
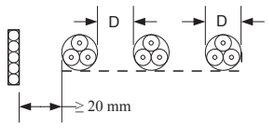
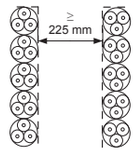
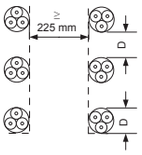
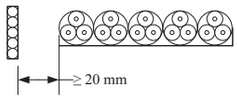
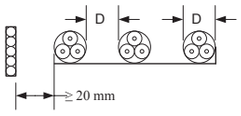
Table 11. Correction factor for groups of three-core cables in single way ducts in horizontal formation

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.85	0.88	0.92	0.94	0.95
3	0.75	0.80	0.85	0.88	0.91
4	0.69	0.75	0.82	0.86	0.89
5	0.65	0.72	0.79	0.84	0.87
6	0.62	0.69	0.77	0.83	0.87
7	0.59	0.67	0.76	0.82	0.86
8	0.57	0.65	0.75	0.81	-
9	0.55	0.64	0.74	0.80	-
10	0.54	0.63	0.73	-	-
11	0.52	0.62	0.73	-	-
12	0.51	0.61	0.72	-	-

Table 12. Correction factor for groups of three-phase circuits of single-core cables in single-way ducts

Number of cables in group	Spacing between cable centres mm				
	Touching	200	400	600	800
2	0.85	0.88	0.92	0.94	0.95
3	0.75	0.80	0.85	0.88	0.91
4	0.69	0.75	0.82	0.86	0.89
5	0.65	0.72	0.79	0.84	0.87
6	0.62	0.69	0.77	0.83	0.87
7	0.59	0.67	0.76	0.82	0.86
8	0.57	0.65	0.75	0.81	-
9	0.55	0.64	0.74	0.80	-
10	0.54	0.63	0.73	-	-
11	0.52	0.62	0.73	-	-
12	0.51	0.61	0.72	-	-

Table 13. Reduction factors for groups of more than one multi-core cable in air - To be applied to the current-carrying capacity for one multi-core cable in free air

Method of Installation		Number of Trays	Number of cables					
			1	2	3	4	6	9
Cables on perforated trays		1	1.00	0.88	0.82	0.79	0.76	0.73
		2	1.00	0.87	0.80	0.77	0.73	0.68
		3	1.00	0.86	0.79	0.76	0.71	0.66
		1	1.00	1.00	0.98	0.95	0.91	-
		2	1.00	0.99	0.96	0.92	0.87	-
		3	1.00	0.98	0.95	0.91	0.85	-
Cables on vertical perforated trays		1	1.00	0.88	0.82	0.78	0.73	0.72
		2	1.00	0.88	0.81	0.76	0.71	0.70
		1	1.00	0.91	0.89	0.88	0.87	-
		2	1.00	0.91	0.88	0.87	0.85	-
Cables on ladder supports, cleats, etc		1	1.00	0.87	0.82	0.80	0.79	0.78
		2	1.00	0.86	0.80	0.78	0.76	0.73
		3	1.00	0.85	0.79	0.76	0.73	0.70
		1	1.00	1.00	1.00	1.00	1.00	-
		2	1.00	0.99	0.98	0.97	0.96	-
		3	1.00	0.98	0.97	0.96	0.93	-

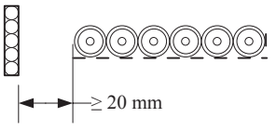
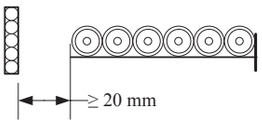
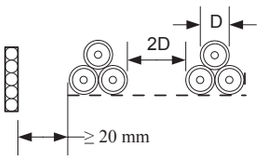
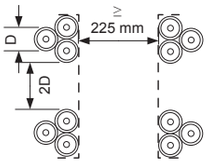
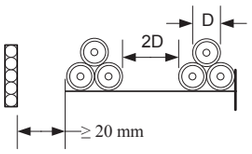
Note 1. Values given are averages for the cable types and range of conductor size considered. The spread of values is generally less than 5 %.

Note 2. Factors apply to single layer groups of cables as shown above and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be siginificantly lower and must be determined by an appropriate method.

Note 3. Values are given for vertical spacing between trays of 300 mm and least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

Note 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Table 14. Reduction factors for groups of more than one circuit of single-core cables – To be applied to the current-carying capacity for one circuit of single-core cables in free air

Method of Installation		Number of Trays	Number of three-phase circuit (Note 5)			Use as a multiplier to 1 2 3 rating for
			1	2	3	
Perforated trays (Note 3)		1 2 3	0.98 0.96 0.95	0.91 0.87 0.85	0.87 0.81 0.78	Three cables in horizontal formation
Ladder supports, cleats, etc (Note 3)		1 2 3	1.00 0.98 0.97	0.97 0.93 0.90	0.96 0.89 0.86	
Perforated trays (Note 3)		1 2 3	1.00 0.97 0.96	0.98 0.93 0.92	0.96 0.89 0.86	Three cables in trefoil formation
Vertical perforated trays (Note 4)		1 2	1.00 1.00	0.91 0.90	0.89 0.86	
Ladder supports, cleats, etc (Note 3)		1 2 3	1.00 0.97 0.96	1.00 0.95 0.94	1.00 0.93 0.90	

Note 1. Values given are averages for the cable types and range of conductor size considered. The spread of values is generally less than 5 %.

Note 2. Factors are given for single layers of cables (or trefoil groups) as shownin the table and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be siginificantly lower and must be determined by an appropriate method.

Note 3. Values are given for vertical spacing between trays of 300 mm. For closer spacing, the factors should be reduced.

Note 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

Note 5. For circuit having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

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