

SINGLE - CORE CABLE

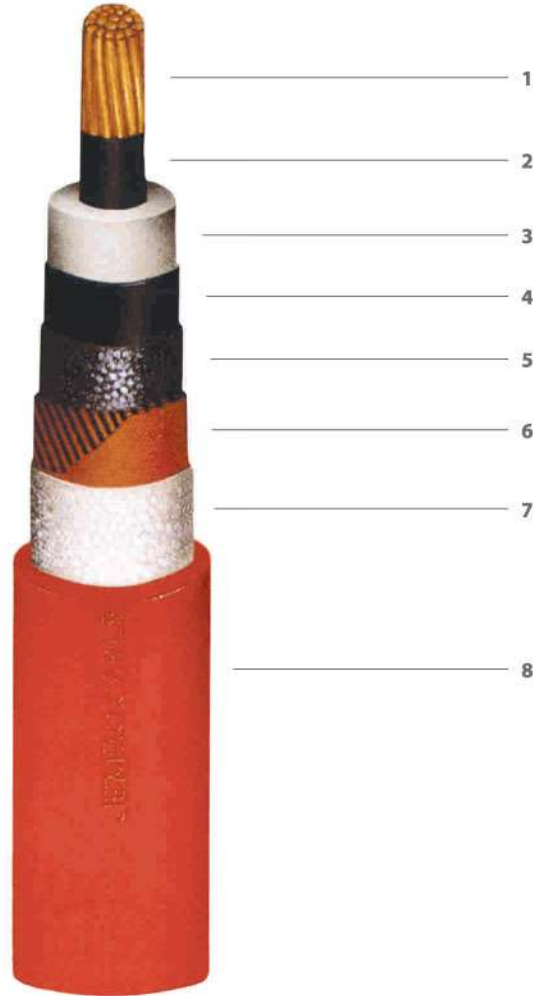
WITH WATER BLOCKING TECHNOLOGY,
COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER WIRE SCREENED AND PVC SHEATHED

Type :
N2XSY
NA2XSY

Nominal Voltage
(max. system voltage) :
3.5/6 kV (7.2 kV)
6/10 kV (12 kV)
8.7/15 kV (17.5 kV)
12/20 kV (24 kV)
18/30 kV (36 kV)

Application :
Suitable for Distribution Indoor and
Outdoor Installation, in conduit,
troughs or on Trays.

Specification :
SPLN 43-5-3 : 1995



CONSTRUCTION

1. Conductor : Copper or Aluminium (Compact Circular Stranded)
2. Conductor Screen : Extruded Semiconductive Compound
3. Insulation : Extruded Crosslinked Polyethylene (XLPE)
4. Insulation Screen : Extruded Strippable Semiconductive Compound
5. Water Blocking : Helicaly Overlapped Semiconductive Water Blocking Tape
6. Metallic Screen : Helicaly Overlapped Copper Wire
7. Water Blocking : Helicaly Overlapped Non-conductive Water Blocking Tape
8. Sheath : Extruded PVC 90°C grade

N2XSY & NA2XSY

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED,
COPPER WIRE SCREENED AND PVC SHEATHED

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : SPLN 43-5-3 : 1995
Other specifications are available on request

N2XSY - COPPER CONDUCTOR

SINGLE CORE

Nominal cross sectional area		mm ²	35	50	70	95	120	150	185	240	300	400	500
Conductor	Approx. diameter	mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	23.2	26.4
	Max. DC resistance at 20°C	Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366
Insulation	Nominal thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. DC resistance at 20°C	m.ohm.km	4400	4000	3600	3200	3000	2700	2500	2300	2100	1900	1700
Nominal sheath thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Overall diameter	approx.	mm	30.0	31.1	32.7	34.4	35.8	37.2	38.9	41.2	43.4	46.7	49.9
Cable Net. Weight	approx.	kg/km	1138	1286	1526	1817	2082	2447	2828	3413	4026	4967	6039
Standard length per reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum bending radius		mm	360	373	392	413	430	446	467	494	521	560	599
Capacitance		µF/km	0.145	0.158	0.177	0.197	0.214	0.230	0.250	0.277	0.302	0.336	0.373
Inductance		mH/km	0.177	0.162	0.144	0.129	0.119	0.111	0.102	0.092	0.085	0.076	0.069
Current carrying capacity at 30°C	in air	A	233	279	347	420	483	540	614	718	813	904	965
	in ground	A	202	238	289	343	387	422	473	540	601	652	685
Short circuit current at 1 sec.		kA	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8	71.0
AC voltage test		kV/5 min	30	30	30	30	30	30	30	30	30	30	30

NA2XSY - ALUMINIUM CONDUCTOR

SINGLE CORE

Nominal cross sectional area		mm ²	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. diameter	mm	6.8	7.9	9.6	11.3	12.7	14.0	15.7	18.0	20.1	22.9	26.2	29.7
	Max. DC resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778	0.0605	0.0469
Insulation	Nominal thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. DC resistance at 20°C	m.ohm.km	4400	4100	3600	3200	3000	2800	2500	2300	2100	1900	1700	1500
Nominal sheath thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2
Overall diameter	approx.	mm	30.0	31.1	32.7	34.4	35.8	37.1	38.8	41.1	43.2	46.4	49.7	53.6
Cable Net. Weight	approx.	kg/km	927	1000	1113	1243	1362	1554	1714	1947	2182	2613	3022	3582
Standard length per reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500
Minimum bending radius		mm	360	373	392	413	430	445	466	493	518	557	596	643
Capacitance		µF/km	0.144	0.157	0.177	0.197	0.214	0.229	0.249	0.276	0.300	0.332	0.371	0.411
Inductance		mH/km	0.178	0.163	0.144	0.129	0.119	0.112	0.103	0.093	0.085	0.077	0.069	0.062
Current carrying capacity at 30°C	in air	A	180	217	240	328	378	425	485	513	652	740	838	873
	in ground	A	158	187	228	271	307	339	380	439	491	543	617	657
Short circuit current at 1 sec.		kA	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8	46.0	58.0
AC voltage test		kV/5 min	30	30	30	30	30	30	30	30	30	30	30	30