

N2XSEBY / NA2XSEBY 18/30 (36) kV

**Copper or Aluminium Conductor , XLPE Insulated
Copper wire / tape screened, Zinc-coated steel tape armoured, PVC Sheathed Cable**



- 1. Conductor : Copper or aluminum (compacted circular stranded)
- 2. Conductor screen : Extruded semi conductive compound
- 3. Insulation : Extruded Cross Linked Polyethylene (XLPE)
- 4. Insulation screen : Extruded Strippable semi conductive compound
- 5. Metallic Screen : Helically Overlapped copper tape
- 6. Inner Sheath : Extruded PVC 90° C grade
- 7. Armour : Helically Overlapped Galvanized Steel Tape (Double Tape)
- 8. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA



Specification : SPLN 43-5, IEC 60502



Conductor Shape : Copper or aluminium (compacted circular stranded)



Application : Used for primary underground distribution installation direct burial in wet or dry location

DIMENSIONAL DATA

3 CORES

Cross Section Nominal	Conductor Diameter (Approx)	Insulation Thickness Nominal	Insulation Diameter (Approx)	Armour Thickness Nominal	Sheath Thickness Nominal	Cable Net Weight (Approx)		Min. Bending Radius	Overall Cable Diameter	Std. Length per reel	
						Cu	Al				
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)	
50	8.25	8.0	25.9	0.50	3.2	7.300	6.400	600	72	500	
70	9.9		27.5		3.3	8.400	7.100	640	75		
95	11.7		29.3		3.5	9.700	7.900	690	80		
120	13.1		30.7		3.6	11.700	9.400	730	84		
150	14.3		31.9	0.80	3.7	12.900	10.100	760	87	350	
185	16.3		33.9		3.9	14.800	11.300	810	92		
240	18.7		36.3		4.0	17.300	12.600	880	98		
300	20.9		38.5		4.2	20.000	14.100	930	103		
400	23.7		41.3		4.4	23.500	16.000	1.000	110		300

ELECTRICAL DATA

Cross Section Nominal	Max.DC Resistance at 20° C Conductor		DC Insulation Resistance at 20° C	Current Carrying Capacity at 30° C - in Air		Current Carrying Capacity at 30° C - in Ground		Capacitance per phase	Inductance per phase	Max.Short Circuit Current of Screen	Max.Short Circuit Current of Conductor	
	Cu	Al		Cu	Al	Cu	Al				Cu	Al
(mm ²)	(ohm / km)	(ohm / km)	M.Ohm.km	A	A	A	A	uF / km	mH / km	kA / Sec	kA / Sec	kA / Sec
50	0.387	0.641	1.600	207	162	203	155	0.121	0.402	3.37	7.36	4.89
70	0.268	0.443	1.500	258	205	247	187	0.136	0.381	4.00	10.26	6.81
95	0.193	0.320	1.300	314	246	296	224	0.151	0.363	4.25	13.88	9.19
120	0.153	0.253	1.200	361	283	336	256	0.163	0.352	4.45	17.49	11.58
150	0.124	0.206		411	320	377	284	0.173	0.343	4.62	21.81	14.43
185	0.0991	0.164	1.100	470	365	426	322	0.190	0.330	4.90	26.86	17.76
240	0.0754	0.125	1.000	554	426	493	373	0.209	0.317	5.23	34.78	22.98
300	0.0601	0.100	900	630	482	555	415	0.277	0.308	5.54	43.41	28.67
400	0.047	0.0778	800	766	594	626	496	0.250	0.297	5.93	57.79	38.14