

N2XSEY / NA2XSEY 12/20 (24) kV

**Copper or Aluminium Conductor , XLPE Insulated
Copper Wire / Tape Screened , PVC Sheathed Cable**



- 1. Conductor : Copper or aluminum (compacted circular
- 2. Conductor screen : Extruded semi conductive compo
- 3. Insulation : Extruded Cross Linked Polyethyl
- 4. Insulation screen : Extruded Strippable semi conductive compo
- 5. Metallic Screen : Helically Overlapped copper tap
- 6. Inner Sheath : Extruded PVC 90° C gr
- 7. Outer Sheath : Extruded PVC 90° C gr

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA

SPEC STD Specification : SPLN 43-5, IEC 60502

Cu Conductor Shape : Copper or aluminium (compacted circular strand

APL Application : Used for distribution, indoor and outdoor installation in conduit throughs or trays or in the ground where not sustian mechanical damage.

DIMENSIONAL DATA

3 CORES

Cross Section Nominal (mm ²)	Conductor Diameter (Approx) (mm)	Insulation Thickness Nominal (mm)	Insulation Diameter (Approx) (mm)
35	7.1	5.5	19.7
50	8.25		20.9
70	9.9		22.5
95	11.7		24.3
120	13.1		25.7
150	14.3		26.9
185	16.3		28.9
240	18.7		31.3
300	20.9		33.5
400	23.7		36.3

Sheath Thickness Nominal (mm)	Cable Net Weight (Approx)		Min. Bending Radius (mm)	Overall Cable Diameter (mm)	Std. Length per reel (m)
	Cu (kg / km)	Al (kg / km)			
1.8	3.800	3.100	450	53	500
	4.400	3.500	480	56	
1.9	5.300	4.000	520	60	
	6.400	4.600	570	64	
2.0	7.400	5.200	600	67	350
	8.500	5.700	630	70	
2.1	10.000	6.500	690	75	
	12.200	7.500	740	80	
2.2	14.400	8.700	790	85	300
2.3	17.500	10.200	860	91	

ELECTRICAL DATA

Cross Section Nominal (mm ²)	Max.DC Resistance at 20° C Conductor		DC Insulation Resistanc M.Ohm.km	Current Carrying Capacity		Current Carrying Capacity at 30° C - in Ground		Capacitan ce per phase uF / km	Inductanc e per phase mH / km	Max.Short Circuit Current kA / Sec	Max.Short Circuit Current of Conductor	
	Cu (ohm / km)	Al (ohm / km)		Cu A	Al A	Cu A	Al A				Cu kA / Sec	Al kA / Sec
35	0.524	0.868	1.400	175	140	173	133	0.136	0.393	2.77	5.18	3.45
50	0.387	0.641	1.300	208	163	204	155	0.149	0.374	2.92	7.36	4.89
70	0.268	0.443	1.100	259	201	248	193	0.169	0.353	3.14	10.26	6.81
95	0.193	0.320	1.000	316	244	298	230	0.190	0.335	3.38	13.88	9.19
120	0.153	0.253	900	364	283	338	263	0.206	0.323	3.57	17.49	11.58
150	0.124	0.206		414	321	380	295	0.220	0.315	4.66	21.81	14.43
185	0.0991	0.164	800	474	368	429	334	0.243	0.303	3.99	26.86	17.76
240	0.0754	0.125	700	558	429	497	389	0.270	0.292	4.31	34.78	22.98
300	0.0601	0.100		635	486	559	441	0.294	0.283	4.60	43.41	28.67
400	0.047	0.0778		767	599	631	500	0.326	0.274	6.21	57.79	38.14