

**N2XSEY / NA2XSEY 3.6/6 ( 7.2) kV**

Copper or Aluminium Conductor , XLPE Insulated  
Copper Wire / Tape Screened , 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. Outer Sheath : Extruded PVC 90° C grade

**MEDIUM VOLTAGE XPLE INSULATED CABLE**

**TECHNICAL DATA**

**SPEC STD** Specification : SPLN 43-5, IEC 60502

**Cu** Conductor Shape : Copper or aluminium ( compacted circular stranded )

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

**DIMENSIONAL DATA**

**3 CORES**

Cross Section Nominal (mm <sup>2</sup> )	Conductor Diameter (Approx) (mm)	Insulation Thickness Nominal (mm)	Insulation Diameter (Approx) (mm)	
25	6.05	2.5	12.5	
35	7.1		13.5	
50	8.25		14.7	
70	9.9		16.3	
95	11.7		18.1	
120	13.1		19.5	
150	14.3		20.7	
185	16.3		22.7	
240	18.7		2.6	25.3
300	20.9		2.8	27.9
400	23.7	3.0	31.1	

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)				
1.5	2.100	1.600	320	37	500	
1.6	2.500	1.800	350	39		
	3.000	2.100	380	42		
1.7	3.800	2.500	420	46		
	4.800	3.000	460	50		
1.8	5.800	3.500	500	53		
	6.700	3.900	530	56		
1.9	8.100	4.600	570	60		
	10.200	5.600	640	66		
2.0	12.500	6.700	700	72		
2.1	15.600	8.200	780	80		350

**ELECTRICAL DATA**

Cross Section Nominal (mm <sup>2</sup> )	Max.DC Resistance at 20° C Conductor		DC Insulation Resistance at 20° C (M.Ohm.km)	Current Carrying Capacity at 30° C - in Air		Current Carrying Capacity at 30° C - in Ground		Capacitance per phase (uF / km)	Inductance per phase (mH / km)	Max.Short Circuit Current of Screen (kA / Sec)	Max.Short Circuit Current of Conductor	
	Cu	Al		A	Al	Cu	Al				Cu	Al
25	0.727	1.200	900	134	103	133	102	0.191	0.322	1.90	3.73	2.49
35	0.524	0.868	800	175	133	172	131	0.216	0.308	2.05	5.18	3.45
50	0.387	0.641	700	207	160	203	156	0.240	0.298	2.21	7.36	4.89
70	0.268	0.443	600	258	200	247	192	0.279	0.284	2.44	10.26	6.81
95	0.193	0.320	500	315	241	297	230	0.318	0.273	2.69	13.88	9.19
120	0.153	0.253		362	280	337	261	0.349	0.266	2.89	17.49	11.58
150	0.124	0.206	400	413	317	379	294	0.376	0.261	3.05	21.81	14.43
185	0.0991	0.164		473	363	428	333	0.419	0.254	3.33	26.86	17.76
240	0.0754	0.125	557	424	497	388	0.459	0.249	3.70	34.78	22.98	
300	0.0601	0.100	663	484	557	416	0.481	0.246	4.06	43.41	28.67	
400	0.047	0.0778	765	597	629	498	0.511	0.243	4.51	57.79	38.14	