

N2XSY / NA2XSY 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 Li nked Polyethylene (XLPE)
- 4. Insulation screen : Extruded Strippable semi conductive compound
- 5. Metallic Screen : Helical ly Overlapped copper tape
- 6. Inner Covering : Helical ly Overlapped Polyester tape
- 7. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA

SPEC STD Specification : IEC 502-2

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

DIMENSIONAL DATA

1 CORE

Cross Section Nominal	Conductor Diameter (Approx)	Insulation Thickness Nominal	Insulation Diameter (Approx)	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)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
25	6.05	2.5	12.5	1.5	600	450	240	18	1.000
35	7.1		13.5	1.6	700	500	270	20	
50	8.25		14.7	1.7	900	600	290	21	
70	9.9		16.3		1.100	700	320	23	
95	11.7		18.1		1.400	800	360	24	
120	13.1		19.5	1.8	1.700	900	390	26	
150	14.3		20.7	1.9	2.000	1.100	410	27	
185	16.3		22.7		2.400	1.200	460	29	
240	18.7		25.3		3.000	1.500	510	32	
300	20.9		27.9		2.0	3.600	1.700	560	
400	23.7	3.0	31.1	2.1	4.500	2.100	620	38	500
500	26.6	34.4	2.3	5.700	2.600	680	42		
630	30.3	39.3	2.4	7.300	3.300	780	48		
800	34.2	43.2	2.5	9.000	4.000	860	52		

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
25	0.727	1.200	900	190	146	171	131	0.191	0.409	2.26	3.73	2.49
35	0.524	0.868	800	230	177	203	156	0.216	0.391	2.43	5.18	3.45
50	0.268	0.641	700	276	214	238	185	0.240	0.372	2.63	7.36	4.89
70	0.193	0.443	600	344	267	290	226	0.279	0.353	2.90	10.26	6.81
95	0.153	0.320	500	417	326	343	269	0.318	0.333	2.56	13.88	9.19
120	0.193	0.253		480	376	387	304	0.349	0.323	2.75	17.49	11.58
150	0.124	0.206		536	423	422	335	0.376	0.316	3.63	21.81	14.43
185	0.0991	0.164	400	611	484	472	376	0.419	0.306	3.96	26.86	17.76
240	0.0754	0.125		715	572	539	434	0.459	0.295	4.39	34.78	22.98
300	0.0601	0.100		810	651	601	486	0.481	0.289	4.82	43.41	28.67
400	0.0470	0.0778		900	740	648	536	0.511	0.283	5.35	57.79	38.14
500	0.0366	0.0605	300	1.005	837	774	614	0.540	0.278	5.90	72.16	47.60
630	0.0283	0.0469		1.087	870	818	654	0.534	0.279	6.84	90.83	59.90
800	0.0221	0.0367		1.209	967	871	697	0.595	0.272	5.99	115.23	75.96