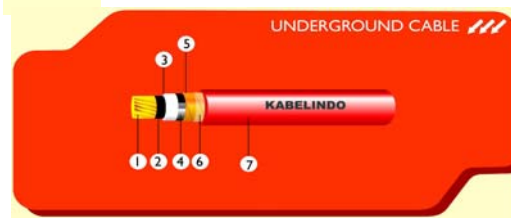


**N2XSY / NA2XSY 12 / 20 (24) kV**

**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 Covering : Helically 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 <sup>2</sup> )	(mm)	(mm)	(mm)	(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
35	7.1	5.5	19.7	1.8	1.000	800	330	26	1.000
50	8.25		20.9	1.9	1.200	900	350	27	
70	9.9		22.5		1.400	1.000	390	29	
95	11.7		24.3	2.0	1.700	1.100	420	31	
120	13.1		25.7		2.000	1.300	450	32	
150	14.3		26.9	2.1	2.300	1.400	480	34	
185	16.3		28.9		2.700	1.600	520	36	
240	18.7		31.3	2.2	3.300	1.800	570	38	
300	20.9		33.5		4.000	2.100	610	40	
400	23.7		36.3	2.3	4.900	2.500	670	44	
500	26.6		39.2		6.100	3.000	730	47	
630	30.3		44.1	2.5	7.700	3.700	830	53	
800	34.2		48.0		9.500	4.400	920	58	

**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		A	A	Cu	Al				Cu	Al
(mm <sup>2</sup> )	(ohm / km)	(ohm / km)	M.Ohm.km	A	A	A	A	uF / km	mH / km	kA / Sec	kA / Sec	kA / Sec
35	0.524	0.868	1.400	233	180	205	158	0.136	0.447	2.77	5.18	3.45
50	0.268	0.641	1.300	279	217	240	187	0.149	0.426	2.92	7.36	4.89
70	0.193	0.443	1.100	347	240	292	228	0.169	0.403	3.14	10.26	6.81
95	0.153	0.320	1.000	420	328	347	271	0.190	0.382	3.38	13.88	9.19
120	0.193	0.253	900	483	378	391	307	0.206	0.368	3.57	17.49	11.58
150	0.124	0.206		540	425	427	339	0.220	0.359	4.66	21.81	14.43
185	0.0991	0.164	800	614	485	478	380	0.243	0.345	3.99	26.86	17.76
240	0.0754	0.125	700	718	513	546	439	0.270	0.330	4.31	34.78	22.98
300	0.0601	0.100		813	652	608	491	0.294	0.320	4.60	43.41	28.67
400	0.0470	0.0778	600	904	740	659	543	0.326	0.310	6.21	57.79	38.14
500	0.0366	0.0605		1.011	838	776	617	0.358	0.301	6.69	72.16	47.60
630	0.0283	0.0469	500	1.090	873	821	657	0.370	0.299	6.11	90.83	59.90
800	0.0221	0.0367	400	1.212	970	874	701	0.410	0.294	6.63	115.23	75.96