

**N2XS/ NA2XS/ 18 / 30 (36) 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**



Specification : IEC 502-2



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)
50	8.25	8.0	25.9	2.0	1.400	1.200	410	32	1.000
70	9.9		27.5	2.1	1.700	1.300	440	34	
95	11.7		29.3		2.000	1.400	480	36	
120	13.1		30.7	2.300	1.600	510	37		
150	14.3		31.9	2.600	1.700	530	39		
185	16.3		33.9	3.100	1.900	570	41		
240	18.7		36.3	3.700	2.200	620	43		
300	20.9		38.5	4.400	2.500	670	46		
400	23.7		41.3	5.300	2.900	730	49		
500	26.6		44.2	6.400	3.400	790	52		
630	30.3	49.1	8.200	4.200	880	58	500		
800	34.2	53.0	10.000	4.900	960	62			

**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 <sup>2</sup> )	(ohm / km)	(ohm / km)	M.Ohm.km	A	A	A	A	uF / km	mH / km	kA / Sec	kA / Sec	kA / Sec
50	0.268	0.641	1.600	279	217	241	188	0.121	0.462	3.59	7.36	4.89
70	0.193	0.443	1.500	348	270	294	228	0.136	0.435	3.81	10.26	6.81
95	0.153	0.320	1.300	421	328	348	273	0.151	0.413	4.04	13.88	9.19
120	0.193	0.253	1.200	483	378	394	309	0.163	0.398	4.23	17.49	11.58
150	0.124	0.206		540	425	431	341	0.173	0.388	4.39	21.81	14.43
185	0.0991	0.164	1.100	615	485	483	384	0.190	0.372	4.66	26.86	17.76
240	0.0754	0.125	1.000	718	572	553	443	0.209	0.357	4.97	34.78	22.98
300	0.0601	0.100	900	812	649	615	495	0.227	0.345	5.26	43.41	28.67
400	0.0470	0.0778	800	904	737	660	544	0.250	0.333	5.64	57.79	38.14
500	0.0366	0.0605	700	1.011	838	778	618	0.274	0.323	6.02	72.16	47.60
630	0.0283	0.0469	600	1.091	874	822	658	0.288	0.318	6.78	90.83	59.90
800	0.0221	0.0367		1.213	971	875	702	0.317	0.308	7.29	115.23	75.96