

**N2XSEMCY / NA2XMCY 18/30 (36) kV**

Copper or Aluminium Conductor , XLPE Insulated  
Copper wire / tape screened, Steel tape corrugated armoured, 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. Armour : Steel Corrugated
- 8. Outer Sheath : Extruded PVC 90° C grade

**MEDIUM VOLTAGE XPLE INSULATED CABLE**

**TECHNICAL DATA**

**SPEC STD** Specification : IEC 60520

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

**APL** Application : Used for indoor and outdoor installation in duck or rack cable tray in hazardous area.

**DIMENSIONAL DATA**

**3 CORES**

Cross Section Nominal	Conductor Diameter (Approx)	Insulation Thickness Nominal	Insulation Diameter (Approx)	Armour Thickness Nominal	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)	(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
50	8.25	8.0	25.9	0.60	3.5	7.800	6.900	660	80	500
70	9.9		27.5		3.6	8.900	7.600	700	83	
95	11.7		29.3		3.8	10.300	8.400	760	89	
120	13.1		30.7		3.9	11.500	9.200	790	92	
150	14.3		31.9		4.0	12.700	9.800	810	94	350
185	16.3		33.9		4.2	14.400	10.900	870	99	
240	18.7		36.3			16.700	12.000	880	99	
300	20.9		38.5			19.000	13.200	900	99	
400	23.7		41.3			22.100	14.700	920	99	

**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	0.387	0.641	1.600	205	160	201	153	0.121	0.417	3.77	7.36	4.89
70	0.268	0.443	1.500	255	203	244	185	0.136	0.393	4.00	10.26	6.81
95	0.193	0.320	1.300	311	243	293	222	0.151	0.372	4.25	13.88	9.19
120	0.153	0.253	1.200	357	280	332	253	0.163	0.359	4.45	17.49	11.58
150	0.124	0.206		407	317	373	281	0.173	0.349	4.62	21.81	14.43
185	0.0991	0.164	1.100	465	361	422	319	0.190	0.335	4.90	26.86	17.76
240	0.0754	0.125	1.000	548	422	488	369	0.209	0.321	5.23	34.78	22.98
300	0.0601	0.100	900	624	477	549	411	0.227	0.311	5.54	43.41	28.67
400	0.047	0.0778	800	758	588	620	491	0.250	0.300	5.93	57.79	38.14