

N2XSEMICY / NA2XSEMICY 3.6/6 (7.2) 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

SPEC
STD

Specification : IEC 60502

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) (mm)	Insulation Thickness Nominal (mm)	Insulation Diameter (Approx) (mm)	Armour Thickness Nominal (mm)	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)				
25	6.05	2.5	12.5	0.40	2.3	2.800	2.300	380	44	500	
35	7.1		13.5		2.4	3.300	2.600	410	47		
50	8.25		14.7		2.5	3.800	2.900	430	49		
70	9.9		16.3		2.7	4.900	3.400	490	55		
95	11.7		18.1		2.8	6.000	4.200	520	58		
120	13.1		19.5	2.9	7.000	4.800	560	62			
150	14.3		20.7	3.0	8.100	5.300	600	65			
185	16.3		22.7	3.2	9.600	6.100	660	71			
240	18.7		2.6	25.3	3.4	11.900	7.300	720	77		330
300	20.9		2.8	27.9	3.7	14.700	8.900	790	85		300
400	23.7	3.0	31.1	3.9	18.100	10.700	880	93			

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		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	kA / Sec
25	0.727	1.200	900	131	101	130	100	0.191	0.344	1.90	3.73	2.49
35	0.524	0.868	800	170	130	168	129	0.216	0.317	2.05	5.18	3.45
50	0.387	0.641	700	203	157	199	153	0.240	0.304	2.21	7.36	4.89
70	0.268	0.443	600	253	196	242	188	0.279	0.288	2.44	10.26	6.81
95	0.193	0.320	500	309	236	291	226	0.318	0.276	2.69	13.88	9.19
120	0.153	0.253		355	274	330	256	0.349	0.268	2.89	17.49	11.58
150	0.124	0.206		405	311	371	288	0.376	0.263	3.05	21.81	14.43
185	0.0991	0.164		463	356	420	327	0.419	0.255	3.33	26.86	17.76
240	0.0754	0.125		546	416	487	380	0.459	0.249	3.70	34.78	22.98
300	0.0601	0.100	400	621	474	546	408	0.481	0.246	4.06	43.41	28.67
400	0.047	0.0778		750	585	617	488	0.511	0.243	4.51	57.79	38.14