

**N2XSE(StCA)Y / NA2XSE(StCA)Y 8.7/15 (17.5) 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. Outer Sheath : Extruded PVC 90° C grade

**MEDIUM VOLTAGE XPLE INSULATED CABLE**

**TECHNICAL DATA**

**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)
25	6.05	4.5	16.5	0.50	2.7	3.900	3.500	460	55	500
35	7.1		17.5		2.8	4.400	3.800	480	57	
50	8.25		18.7		2.9	5.100	4.200	510	60	
70	9.9		20.3		3.0	6.100	4.800	550	64	
95	11.7		22.1		3.1	7.200	5.400	600	68	
120	13.1		23.5		3.3	8.400	6.100	650	73	
150	14.3		24.7	3.4	9.500	6.700	680	76	350	
185	16.3		26.7	3.6	11.400	7.900	730	81		
240	18.7		29.1	3.8	14.700	9.000	800	88	330	
300	20.9		31.3	4.0	16.200	12.000	850	93	300	
400	23.7		34.1	4.2	19.400	13.900	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	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
25	0.727	1.200	1.300	132	102	131	101	0.138	0.389	2.46	3.73	2.49
35		0.868	1.200	171	137	168	131	0.154	0.369	2.61	5.18	3.45
50		0.641	1.100	204	159	200	152	0.170	0.352	2.77	7.36	4.89
70		0.443	1.000	254	202	243	184	0.193	0.332	3.00	10.26	6.81
95		0.320	900	310	242	292	221	0.218	0.316	3.25	13.88	9.19
120		0.253	800	356	279	331	252	0.238	0.305	3.44	17.49	11.58
150		0.206	700	406	316	372	280	0.254	0.298	3.61	21.81	14.43
185		0.164		464	361	421	318	0.281	0.287	3.89	26.86	17.76
240		0.125	600	547	421	487	388	0.314	0.277	4.23	34.78	22.98
300		0.100		623	476	548	410	0.344	0.269	4.53	43.41	28.67
400		0.0778		752	587	619	490	0.382	0.261	4.92	57.79	38.14