

N2XSEKBY / NA2XSEKBY 12/20 (24) kV

Copper or Aluminium Conductor , XLPE Insulated
Copper wire / tape screened, Lead sheathed, Zinc-coated steel tape 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. Metallic Sheath : Extruded Lead Alloy
- 8. Separation Sheath : Extruded PVC 90° C grade
- 9. Armour : Helically Overlapped Galvanized Steel Tape (Double Tape)
- 10. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA

SPEC STD Specification : IEC 60502

Cu Conductor Shape :Copper or aluminium (compact)

APL Application : Used for primary under ground distribution installation direct burial, in petroleum and chemical plants and in areas in which ground water contain waste oil or chemical

DIMENSIONAL DATA

3 CORES

Cross Section Nominal	Conductor Diameter (Approx)	Insulation Thickness Nominal	Insulation Diameter (Approx)	Lead Thickness Nominal	Armour Thickness Nominal	Sheath Thickness Nominal	Cable Net Weight		Min. Bending Radius	Overall Cable Diameter	Std. Length per reel
							Cu	Al			
(mm ²)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
35	7.1	5.5	19.7	2.1	0.50	3.0	9.700	9.000	540	65	500
50	8.25		20.9	2.2		3.1	10.800	9.900	570	68	
70	9.9		22.5	2.3		3.2	12.400	11.100	610	72	
95	11.7		24.3	2.4		3.4	14.300	12.400	670	77	
120	13.1		25.7	2.5		3.5	16.000	13.700	710	81	
150	14.3		26.9	2.6		3.7	18.600	15.900	750	86	
185	16.3		28.9	2.7	0.80	3.8	21.200	17.600	810	91	350
240	18.7		31.3	2.9		4.0	24.900	20.000	870	97	
300	20.9		33.5	3		4.2	28.200	22.300	920	102	
400	23.7		36.3	3.2		4.4	33.300	25.800	1000	110	

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	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	
35	0.524	0.868	1.400	170	137	168	130	0.126	0.377	2.92	5.18	3.45	
50	0.387	0.641	1.300	203	158	199	152	0.138	0.362	3.08	7.36	4.89	
70	0.268	0.443	1.100	253	196	242	188	0.156	0.344	3.31	10.26	6.81	
95	0.193	0.320	1.000	308	238	290	224	0.175	0.328	3.56	13.88	9.19	
120	0.153	0.253	900	354	276	330	256	0.189	0.318	3.75	17.49	11.58	
150	0.124	0.206		404	313	370	287	0.201	0.310	3.92	21.81	14.43	
185	0.0991	0.164	800	462	359	418	326	0.222	0.300	4.20	26.86	17.76	
240	0.0754	0.125	700	545	418	484	379	0.246	0.289	4.53	34.78	22.98	
300	0.0601	0.100		619	474	545	430	0.268	0.281	4.84	43.41	28.67	
400	0.047	0.0778		600	748	584	615	487	0.296	0.273	5.23	57.79	38.14