

N2XSEKBY / NA2XSEKBY 18/30 (36) 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



Specification : IEC 60502



Conductor Shape : Copper or aluminium (compacted circular str)



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 (sulfides, etc).

DIMENSIONAL DATA

3 CORES

Cross Section Nominal (mm ²)	Conductor Diameter (Approx) (mm)	Insulation Thickness Nominal (mm)	Insulation Diameter (Approx) (mm)	Lead Thickness Nominal (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)			
50	8.25	8.0	25.9	2.6	0.80	3.6	15.600	14.700	680	83	500
70	9.9		27.5	2.7		3.7	17.400	16.000	730	87	
95	11.7		29.3	2.8		3.9	19.600	17.700	780	92	
120	13.1		30.7	2.9		4.0	21.600	19.200	820	96	350
150	14.3		31.9	2.9		4.1	23.100	20.200	850	99	
185	16.3		33.9	3.1		4.2	26.100	22.500	900	104	
240	18.7		36.3	3.2		4.4	29.800	25.000	970	110	250
300	20.9		38.5	3.3		4.6	35.600	27.700	1.030	116	
400	23.7		41.3	3.5		4.9	38.900	31.300	1.100	123	

ELECTRICAL DATA

Cross Section Nominal (mm ²)	Max.DC Resistance at 20° C Conductor		DC Insulation Resistance at 20° C (M.Ohm.km)	Current Carrying Capacity at 30° C - in Air		Current Carrying Capacity at 30° C - in Ground		Capacitance per phase (uF / km)	Inductance per phase (mH / km)	Max.Short Circuit Current of Screen (kA / Sec)	Max.Short Circuit Current of Conductor	
	Cu (ohm / km)	Al (ohm / km)		Cu (A)	Al (A)	Cu (A)	Al (A)				Cu (kA / Sec)	Al (kA / Sec)
50	0.387	0.641	1.600	204	159	200	152	0.115	0.402	3.77	7.36	4.89
70	0.268	0.443	1.500	254	202	243	184	0.129	0.381	4.00	10.26	6.81
95	0.193	0.320	1.300	309	242	291	220	0.143	0.363	4.25	13.88	9.19
120	0.153	0.253	1.200	355	279	331	252	0.154	0.352	4.45	17.49	11.58
150	0.124	0.206		405	315	371	280	0.163	0.343	4.62	21.81	14.43
185	0.0991	0.164	1.100	463	359	419	317	0.178	0.330	4.90	26.86	17.76
240	0.0754	0.125	1.000	546	419	485	367	0.197	0.317	5.23	34.78	22.98
300	0.0601	0.100	900	620	475	546	409	0.213	0.308	5.54	43.41	28.67
400	0.047	0.0778	800	754	585	616	488	0.234	0.297	5.93	57.79	38.14