PT. KABELINDO MURNI Tbk

N2XSEFGbY / NA2XSEFGbY 18/30 (36) kV

Copper or Aluminium Conductor , XLPE Insulated
Copper wire / tape screened, Zinc-coated flat steel wire 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 semiconductive compound
5. Metalic Screen : Helically Overlapped copper tape
6. Inner Sheath : Extruded PVC 90° C grade
7/8. Armour : Galvanized Flat Steel and Steel tape
9. Outer Sheath : Extruded PVC 90° C grade

MEDIUM VOLTAGE XPLE INSULATED CABLE

TECHNICAL DATA

SPEC STD — Specification : SPLN 43-5, IEC 60502

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

APL — Application : Used for primary underground distribution installation direct burial in wet or dry location.

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^2)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg / km)	(kg / km)	(mm)	(mm)	(m)
50	8.25	8.0	25.9	0.80	3.2	7.500	6.600	600	72	500
70	9.9		27.5		3.3	8.600	7.300	640	76	
95	11.7		29.3		3.5	10.000	8.100	690	80	
120	13.1		30.7		3.6	11.200	8.900	720	83	350
150	14.3		31.9		3.7	12.400	9.500	750	86	
185	16.3		33.9		3.8	14.100	10.600	810	91	
240	18.7		36.3		4.0	16.600	11.900	870	97	300
300	20.9		38.5		4.1	19.200	13.400	920	102	
400	23.7		41.3		4.4	22.700	15.300	1.000	109	

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^2)	(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	207	162	203	155	0.138	0.429	3.77	7.36	4.89
70	0.268	0.443	1.500	258	205	247	187	0.153	0.404	4.00	10.26	6.81
95	0.193	0.320	1.300	314	246	296	224	0.169	0.383	4.25	13.88	9.19
120	0.153	0.253	1.200	361	283	336	256	0.182	0.369	4.45	17.49	11.58
150	0.124	0.206	1.200	411	320	377	284	0.192	0.359	4.62	21.81	14.43
185	0.0991	0.164	1.100	470	365	426	322	0.210	0.344	4.90	26.86	17.76
240	0.0754	0.125	1.000	554	426	493	373	0.231	0.330	5.23	34.78	22.98
300	0.0601	0.100	900	630	482	555	415	0.250	0.319	5.54	43.41	28.67
400	0.047	0.0778	800	766	594	626	496	0.274	0.307	5.93	57.79	38.14