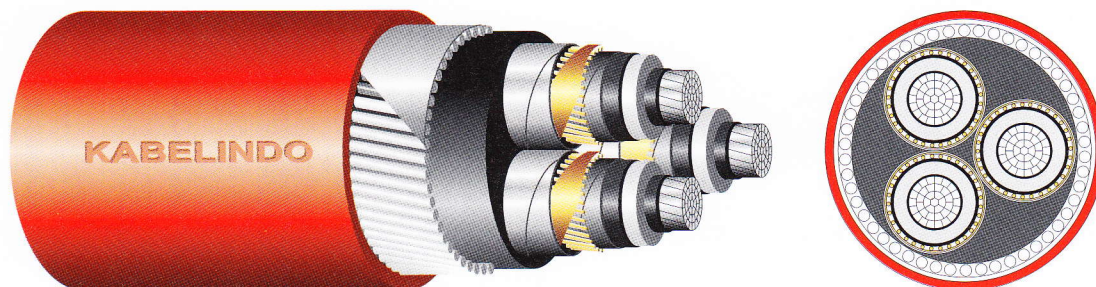


THREE CORES COPPER/ALUMINIUM XLPE INSULATED ARMOURED MEDIUM VOLTAGE CABLE

SPECIFICATION : SPLN 43-5

N2XSEYRGbY / NA2XSEYRGbY 12/20 (24) kV

Copper / Aluminium Conductor, XLPE Insulated,
Copper Wire / Tape Screened, Water Blocking Tape
Zinc-coated Round Steel Wires Armoured,
PVC Sheathed Cable



DIMENSIONAL DATA

Nominal cross sectional area	mm ²	35	50	70	95	120	150	185	240	
Conductor diameter (approx.)	mm	7.1	8.25	9.9	11.7	13.1	14.3	16.3	18.7	
Nominal Insulation thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
Insulation diameter (approx.)	mm	19.7	21.5	23.1	24.7	26.3	27.5	29.3	31.5	
Nominal area of copper screen	mm ²	16	16	16	16	16	25	25	25	
Nominal armour thickness	mm	2.50	2.50	2.50	3.15	3.15	3.15	3.15	3.15	
Nominal sheath thickness	mm	3.6	3.7	3.8	4.0	4.1	4.2	4.4	4.5	
Overall Cable (approx.)	mm	68	71	75	81	84	87	92	96	
Cable Net. Weight (approx.)	kg/km	Cu	7,960	8,750	9,842	12,230	13,599	15,018	16,889	19,312
		Al	7,285	7,864	8,654	10,408	11,185	12,226	13,412	14,753
Standard length per-reel	m	500	500	500	250	250	250	200	200	
Minimum bending radius	mm	1,230	1,280	1,350	1,460	1,520	1,570	1,656	1,728	

ELECTRICAL DATA

Min. DC Insulation resistance at 20°C	M.Ω.km		1,400	1,300	1,100	1,000	900	900	800	700	
Max. DC conductor resistance at 20°C	Ω/km	Cu	0.524	0.387	0.268	0.193	0.153	0.124	0.099	0.0754	
		Al	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	
Capacitance per-phase	μF/km		0.154	0.175	0.196	0.217	0.238	0.254	0.275	0.305	
Inductance per-phase	mH/km		0.408	0.389	0.367	0.348	0.335	0.327	0.314	0.302	
Max. short circuit current of conductor	kA/sec	Cu	5.2	7.1	10.26	13.88	17.35	21.43	27.00	34.78	
		Al	3.46	5.02	6.10	8.89	10.95	14.02	17.05	22.79	
Max short circuit current of screen	kA/sec		2.93	3.05	3.00	3.00	3.00	4.6	4.6	4.6	
Max. current carrying capacity at 30°C	In Air	A	Cu	173	206	258	313	216	410	469	553
			Al	138	162	198	245	282	318	365	425
	In Ground	A	Cu	170	204	246	295	332	376	425	493
			Al	131	152	192	228	258	294	332	384