

NA2XYBY

AL/XLPE /PVC/ STA /PVC – 0.6/1 kV Cable

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1 , IEC 60228, IEC 60332-1-2



APPLICATION

NA2XYBY is used as a power cable for energy supply in static installations, indoors, outdoors, underground and in concrete and also for places where there are mechanical stresses..

CONSTRUCTION

Conductor

Class 1 or 2 stranded Aluminum conductors

Insulation

XLPE (Cross-linked polyethylene)

Bedding

PVC (Polyvinyl Chloride)

Armour

Single Core: Aluminum Tape

Multi Core: Steel (Galvanized) Tape

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U_0/U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-20°C to +90°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

Sheath Color

Black

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Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance μf.km Approx	Reactance Ω.km Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
			Ground	Air	Ground	Air							
	1	16	RM.V	1.91	1.62	86	81	93	98	0.52	0.12	0.20	12.1
1	25	RM.V	1.20	2.50	115	102	124	131	0.51	0.12	0.19	13.9	255
1	35	RM.V	0.868	3.47	137	131	164	163	0.59	0.11	0.19	15.0	300
1	50	RM.V	0.641	4.92	163	161	197	200	0.60	0.11	0.18	16.3	354
1	70	RM.V	0.443	6.84	201	205	238	254	0.66	0.10	0.18	18.2	447
1	95	RM.V	0.320	9.24	240	253	284	313	0.76	0.10	0.17	20.3	566
1	120	RM.V	0.253	11.64	274	296	323	366	0.79	0.09	0.17	22.2	679
1	150	RM.V	0.206	14.51	308	341	461	420	0.76	0.09	0.17	24.0	793
1	185	RM.V	0.164	17.85	350	395	408	486	0.75	0.09	0.17	26.6	970
1	240	RM.V	0.125	23.10	408	475	476	585	0.80	0.09	0.17	29.3	1193
1	300	RM.V	0.100	28.82	462	548	537	675	0.84	0.09	0.17	31.9	1436
1	400	RM.V	0.0778	38.34	531	647	616	798	0.87	0.09	0.16	36.0	1822
1	500	RM.V	0.0605	47.85	601	749	699	926	0.88	0.08	0.16	39.3	2196
1	630	RM.V	0.0469	60.20	673	844	794	1056	0.92	0.08	0.16	43.9	2755

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					Amps Approx		Ω.km Approx			Trefoil	Flat		
	Conductor mm ²				Trefoil		Flat						
	Ground	Air			Ground	Air	Trefoil	Flat					
2	10	RM	3.08	1.03	49	60	70	81	0.43	0.11	0.19	17.2	428
2	16	RM.V	1.91	1.62	80	82	98	100	1.03	0/15	0/23	19.0	477
2	25	RM.V	1.20	2.50	110	101	129	128	0.51	0/15	0/22	22.3	631
2	35	RM.V	0.868	3.47	137	131	164	163	0.59	0/14	0/22	24.5	751

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	10	RM	3.08	1.03	49	60	-	-	0.44	0.10	-	18.1	471
3	16	RM.V	1.91	1.62	80	82	-	-	0.52	0.10	-	20.0	585
3	25	RM.V	1.20	2.50	110	101	-	-	0.51	0.10	-	23.6	792
3	35	RM.V	0.868	3.47	137	131	-	-	0.59	0.10	-	25.9	958
3	50	SM	0.641	4.92	163	161	-	-	0.60	0.10	-	26.8	951
3	70	SM	0.443	6.84	201	205	-	-	0.66	0.09	-	30.5	1233
3	95	SM	0.320	9.24	240	253	-	-	0.76	0.09	-	34.2	1558
3	120	SM	0.253	11.64	274	296	-	-	0.79	0.09	-	39.0	2251
3	150	SM	0.206	14.51	308	341	-	-	0.76	0.09	-	42.6	2663
3	185	SM	0.164	17.85	350	395	-	-	0.75	0.09	-	47.8	3254
3	240	SM	0.125	23.10	408	475	-	-	0.80	0.09	-	53.3	4015
3	300	SM	0.100	28.82	462	548	-	-	0.84	0.09	-	58.3	4764

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3+1	25+16	RM.V	1.20	2.50	111	100	-	-	0.51	0.10	-	24.7	857
3+1	35+16	RM.V	0.868	3.47	132	122	-	-	0.59	0.09	-	26.6	1004
3+1	50+25	SM	0.641	4.92	157	147	-	-	0.60	0.09	-	28.6	1080
3+1	70+35	SM	0.443	6.84	195	189	-	-	0.66	0.09	-	32.6	1400
3+1	95+50	SM	0.320	9.24	233	232	-	-	0.76	0.09	-	38.1	2154
3+1	120+70	SM	0.253	11.64	266	270	-	-	0.79	0.09	-	41.9	2589
3+1	150+70	SM	0.206	14.51	299	308	-	-	0.76	0.09	-	45.5	2988
3+1	185+95	SM	0.164	17.85	340	357	-	-	0.75	0.09	-	51.1	3669
3+1	240+120	SM	0.125	23.10	401	435	-	-	0.80	0.08	-	57.0	4522
3+1	300+150	SM	0.100	28.82	455	501	-	-	0.84	0.08	-	62.6	5492

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	10	RM	3.08	1.03	65	55	-	-	0.43	0.09	-	19.5	537
4	16	RM.V	1.91	1.62	90	76	-	-	0.52	0.09	-	21.6	674
4	25	RM.V	1.20	2.50	111	100	-	-	0.51	0.09	-	25.7	919
4	35	RM.V	0.868	3.47	132	122	-	-	0.59	0.09	-	28.5	1131
4	50	SM	0.641	4.92	157	147	-	-	0.60	0.09	-	29.4	1168
4	70	SM	0.443	6.84	195	189	-	-	0.66	0.08	-	33.6	1527
4	95	SM	0.320	9.24	233	232	-	-	0.76	0.08	-	39.1	2316
4	120	SM	0.253	11.64	266	270	-	-	0.79	0.10	-	43.5	2812
4	150	SM	0.206	14.51	299	308	-	-	0.76	0.10	-	47.4	3331
4	185	SM	0.164	17.85	340	357	-	-	0.75	0.10	-	53.2	4074
4	240	SM	0.125	23.10	401	435	-	-	0.80	0.09	-	59.3	5045
4	300	SM	0.100	28.82	455	501	-	-	0.84	0.09	-	65.2	6037

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					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Trefoil	Flat		
	mm²				Trefoil	Flat	Trefoil	Flat					
					Ground	Air	Ground	Air					
5	10	RM	3.08	1.03	65	55	-	-	0.43	0.10	-	23.4	863
5	16	RM.V	1.91	1.62	90	76	-	-	0.52	0.10	-	28.1	1219
5	25	RM.V	1.20	2.50	111	100	-	-	0.51	0.09	-	31.2	1510
5	35	RM.V	0.868	3.47	132	122	-	-	0.59	0.10	-	23.4	863