

NAYBY

AL/PVC /PVC/ STA/ PVC - 0.6/1 kV Cable

CABLE STANDARDS

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



APPLICATION

NAYBY 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

PVC (Polyvinyl Chloride)

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 +70°C

Short Circuit Temperature

+160°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	1.28	71	61	93	65	0.77	0.12	0.20	12.7
1	25	RM.V	1.20	1.98	100	86	123	99	0.81	0.12	0.20	14.5	287
1	35	RM.V	0.868	2.75	127	113	151	131	0.93	0.11	0.19	15.8	344
1	50	RM.V	0.641	3.91	151	138	179	160	0.91	0.11	0.19	17.1	404
1	70	RM.V	0.443	5.45	186	174	218	202	1.07	0.10	0.18	19.2	515
1	95	RM.V	0.320	7.37	223	210	261	249	1.10	0.10	0.18	21.3	642
1	120	RM.V	0.253	9.29	254	244	297	291	1.23	0.10	0.17	23.0	753
1	150	RM.V	0.206	11.59	285	281	332	333	1.21	0.10	0.17	25.2	904
1	185	RM.V	0.164	14.27	323	320	376	384	1.23	0.09	0.17	27.4	1072
1	240	RM.V	0.125	18.48	378	378	437	460	1.27	0.09	0.17	30.5	1340
1	300	RM.V	0.100	23.07	427	433	494	530	1.30	0.09	0.17	33.1	1601
1	400	RM.V	0.0778	30.72	496	523	572	642	1.38	0.09	0.17	37.4	2037
1	500	RM.V	0.0605	38.36	562	603	649	744	1.42	0.09	0.16	40.7	2441
1	630	RM.V	0.0469	48.28	627	688	724	843	1.60	0.08	0.16	44.7	2976

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					Amps Approx		Amps Approx			Trefoil	Flat		
	Conductor mm ²				Trefoil	Flat	Ground	Air					
2	10	RE	3.08	0.81	42	36	70	30	0.59	0.16	0.24	17.53	458
2	16	RM.V	1.91	1.28	71	61	93	65	0.77	0/15	0/23	20.2	547
2	25	RM.V	1.20	1.98	100	86	123	99	0.81	0/15	0/23	23.5	715
2	35	RM.V	0.868	2.75	127	113	151	131	0.93	0/14	0/22	25.7	844

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	10	RE	3.08	0.81	49	41	-	-	0.59	0.12	-	18.4	466
3	16	RM.V	1.91	1.28	71	62	-	-	0.77	0.11	-	21.3	682
3	25	RM.V	1.20	1.98	99	83	-	-	0.81	0.10	-	24.9	911
3	35	RM.V	0.868	2.75	127	113	-	-	0.93	0.10	-	27.2	1090
3	50	SM	0.641	3.91	151	138	-	-	0.91	0.10	-	28.7	1130
3	70	SM	0.443	5.45	186	174	-	-	1.07	0.10	-	32.0	1412
3	95	SM	0.320	7.37	223	210	-	-	1.10	0.10	-	37.9	2189
3	120	SM	0.253	9.29	254	244	-	-	1.23	0.09	-	40.9	2541
3	150	SM	0.206	11.59	285	281	-	-	1.21	0.09	-	44.6	2996
3	185	SM	0.164	14.27	323	320	-	-	1.23	0.09	-	49.8	3645
3	240	SM	0.125	18.48	378	378	-	-	1.27	0.09	-	55.7	4517
3	300	SM	0.100	23.07	427	433	-	-	1.30	0.09	-	61.1	5386

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					Amps		Amps			Ω.km			
	Conductor mm ²				Approx		Approx			Trefoil	Flat		
					Ground	Air	Ground	Air					
3+1	25+16	RM.V	1.20	1.98	99	83	-	-	0.81	0.09	-	26.1	993
3+1	35+16	RM.V	0.868	2.75	118	102	-	-	0.93	0.09	-	28.3	1167
3+1	50+25	SM	0.641	3.91	142	124	-	-	0.91	0.10	-	30.3	1264
3+1	70+35	SM	0.443	5.45	176	158	-	-	1.07	0.09	-	34.1	1604
3+1	95+50	SM	0.320	7.37	211	190	-	-	1.10	0.09	-	40.5	2486
3+1	120+70	SM	0.253	9.29	242	221	-	-	1.23	0.09	-	43.9	2918
3+1	150+70	SM	0.206	11.59	270	252	-	-	1.21	0.09	-	47.7	3382
3+1	185+95	SM	0.164	14.27	308	289	-	-	1.23	0.09	-	53.3	4145
3+1	240+120	SM	0.125	18.48	363	339	-	-	1.27	0.09	-	59.6	5110
3+1	300+150	SM	0.100	23.07	412	377	-	-	1.30	0.09	-	65.7	6213

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					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	10	RE	3.08	0.81	49	41	-	-	0.59	0.10	-	19.9	586
4	16	RM.V	1.91	1.28	71	62	-	-	0.77	0.12	-	23.1	792
4	25	RM.V	1.20	1.98	99	83	-	-	0.81	0.10	-	27.1	1064
4	35	RM.V	0.868	2.75	118	102	-	-	0.93	0.10	-	29.9	1294
4	50	SM	0.641	3.91	142	124	-	-	0.91	0.06	-	31.4	1387
4	70	SM	0.443	5.45	176	158	-	-	1.07	0.06	-	36.3	2096
4	95	SM	0.320	7.37	211	190	-	-	1.10	0.06	-	41.7	2700
4	120	SM	0.253	9.29	242	221	-	-	1.23	0.06	-	45.2	3151
4	150	SM	0.206	11.59	270	252	-	-	1.21	0.06	-	49.4	3748
4	185	SM	0.164	14.27	308	289	-	-	1.23	0.06	-	55.2	4578
4	240	SM	0.125	18.48	363	339	-	-	1.27	0.06	-	61.7	5677
4	300	SM	0.100	23.07	412	377	-	-	1.30	0.06	-	68.0	6822

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					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Trefoil	Flat		
	mm ²				Trefoil		Flat			Trefoil	Flat		
				Ground	Air	Ground	Air						
5	10	RE	3.08	0.81	49	41	-	-	0.59	0.11	-	21.4	687
5	16	RM.V	1.91	1.28	71	62	-	-	0.77	0.11	-	25.0	1016
5	25	RM.V	1.20	1.98	99	83	-	-	0.81	0.10	-	29.7	1409
5	35	RM.V	0.868	2.75	118	102	-	-	0.93	0.10	-	32.8	1724