

NAYY-J / NAYY-O Cable

Aluminium Conductor PVC PVC 0.6/1kV Cable



APPLICATION

For fixed installation in buildings, in free air, in ground and in water.

CHARACTERISTICS

Voltage Rating U_0/U (Um)

0.6/1kV

Temperature Rating

Operating Temperature: -5°C to $+70^{\circ}\text{C}$

STANDARDS

IEC 60502-1, VDE 0276-603, HD 603, IEC 60228

Flame retardant according to IEC/EN 60332-1-2

THE CABLE TEST

We have world-class testing facility, and made rigorous testing regime, every meter of cable before leaving the factory must

go through strict testing, testing qualified products will be shipped to customers, effectively ensure product quality and meet customer requirements.

SUSTAINABILITY COMMITMENT

Guowang Cable actively implements the "carbon reduction" goal, strives to promote the green's low-carbon transformation, strengthens energy-saving and emission reduction technology innovation, and promotes the company's healthy and sustainable development.

CONSTRUCTION

Conductor

RE: Class 1 solid aluminium - circular or circular compacted

RM: Class 2 stranded

SM: Class 2 sectorshaped

SE: Class 1 solid sectorshaped or stranded (available upon request)

Insulation

PVC (Polyvinyl Chloride)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Black, Customized as needed

Core Identification

NAYY-J

1 core: Green/Yellow

3 core: Green/Yellow, Blue, Brown

4 core: Green/Yellow, Brown, Black, Grey

5 core: Green/Yellow, Blue, Brown, Black,

Grey

7 cores and above: Black with White numbers

NAYY-O

1 core: Black

3 core: Black, Brown, Grey

4 core: Blue, Brown, Black, Grey

5 core: Blue, Brown, Black, Grey, Black

7 cores and above: Black with White numbers

DIMENSIONS

NAYY-J

NO. OF CORES	CONDUCTOR TYPE	NOMINAL CROSS SECTIONAL AREA (mm ²)	NOMINAL THICKNESS OF INSULATION (mm)	FIXED INSTALLATION BENDING RADIUS (mm)	NOMINAL THICKNESS OF SHEATH (mm)	NOMINAL DIAMETER (mm)	NOMINAL WEIGHT (kg/km)
1	RE	16	1	158	1.8	10.5	145
1	RE	25	1.2	180	1.8	12	195
1	RE	35	1.2	203	1.8	13.5	255
1	RM	50	1.4	231	1.8	15.4	298
1	RM	70	1.4	255	1.8	17	383
1	RM	95	1.6	285	1.8	19	490
1	RM	120	1.6	300	1.8	20	575
1	RM	150	1.8	330	1.8	22	695
1	RM	185	2	375	1.8	25	845
1	RM	240	2.2	420	1.8	28	1100
1	RM	300	2.4	450	1.9	30	1379
1	RM	400	2.6	510	2	34	1615
1	RM	500	2.8	555	2.1	37	2015
1	RM	630	2.8	645	2.2	43	2472
3	SM	300	2.4	708	3	59	4500
4	RE	6	1	204	1.8	17	377
4	RE	10	1	285	1.8	19	470
4	RE	16	1.2	288	1.8	24	750
4	RE	25	1.2	300	1.8	25	950
4	RE	35	1.2	354	1.8	28.1	1120
4	SM	50	1.4	354	1.9	29.5	1151
4	SM	70	1.4	420	2.1	33.4	1549
4	SM	95	1.6	468	2.2	39	2030
4	SM	120	1.6	516	2.4	43	2400
4	SM	150	1.8	552	2.5	46	3030
4	SM	185	2	612	2.7	51	3650
4	SM	240	2.2	696	2.9	58	4800
4	SM	300	2.4	786	3	65.5	5685
5	RE	10	1	232	1.8	19.3	585
5	RE	16	1	262	1.8	21.8	938
5	RE	25	1.2	325	1.8	27.1	1188
5	RE	35	1.2	362	1.8	30.2	1375
5	RM	50	1.4	432	1.8	36.2	1720
5	RM	70	1.4	492	2.1	44	2240
5	RM	95	1.4	564	2.1	47	3060
5	RM	120	1.6	612	2.4	53	3580
5	RM	150	1.8	672	2.5	56	4400
5	RM	185	2	804	2.7	59	5481
5	RM	240	2.2	852	2.9	71	7000

DIMENSIONS

NAYY-0

NO. OF CORES	CONDUCTOR TYPE	NOMINAL CROSS SECTIONAL AREA (mm ²)	NOMINAL THICKNESS OF INSULATION (mm)	FIXED INSTALLATION BENDING RADIUS (mm)	NOMINAL THICKNESS OF SHEATH (mm)	NOMINAL DIAMETER (mm)	NOMINAL WEIGHT (kg/km)
1	RE	16	1	157	1.8	10.5	145
1	RE	25	1.2	180	1.8	12	195
1	RE	35	1.2	203	1.8	13.5	255
1	RM	50	1.4	225	1.8	15	298
1	RM	70	1.4	204	1.8	17	383
1	RM	95	1.6	285	1.8	19	490
1	RM	120	1.6	300	1.8	20	575
1	RM	150	1.8	330	1.8	22	695
1	RM	185	2	375	1.8	25	845
1	RM	240	2.2	420	1.8	28	1100
1	RM	300	2.4	450	1.9	30	1379
1	RM	400	2.6	510	2	34	1615
1	RM	500	2.8	555	2.1	37	2015
1	RM	630	2.8	645	2.2	43	2472
1	RM	800	2.9	675	2.4	45	3120
3	SE	300	2.4	708	3	59	4500
4	RE	16	1	288	1.8	24	750
4	RE	25	1.2	300	1.8	25	950
4	SE	35	1.2	338	1.8	28.1	1120
4	SE	50	1.4	360	1.9	30	1151
4	SE	70	1.4	420	2.1	35	1549
4	SE	95	1.6	468	2.2	39	2030
4	SE	120	1.6	516	2.4	43	2400
4	SE	150	1.8	552	2.5	46	3030
4	SE	185	2	612	2.7	51	3650
4	SE	240	2.2	672	2.9	56	4800

DIMENSIONS

NOMINAL CROSS SECTIONAL AREA (mm ²)	MAXIMUM RESISTANCE OF CONDUCTOR AT 20° C (ohms/km)
6	1
10	3.08
16	1.9
25	1.2
35	0.869
50	0.641
70	0.443
70	0.443
95	0.32
120	0.253
150	0.206
185	0.164
240	0.125
300	0.1
400	0.0778
500	0.0605
630	0.0469
800	0.0367

CURRENT CARRYING CAPACITY

NO. OF CORES	IN GROUND		IN AIR	
	Amps		Amps	
	1 Core	3, 4 and 5 Core	1 Core	3, 4 and 5 Core
6	-	25	-	35
10	-	34	-	47
16	-	50	-	63
25	87	82	106	102
35	107	100	127	123
50	131	119	151	144
70	166	152	185	179
95	205	186	222	215
120	239	216	253	245
150	246	246	275	275
185	317	285	322	313
240	378	338	375	364
300	437	400	425	419
400	513	-	487	-
500	600	-	558	-
630	701	-	635	-
800	1080	-	1166	-