

NAYY-J/O Aluminium Conductor Cable



Application

Power and Control Cable, suitable for use both internally or externally. Primarily designed for fixed external wiring for energy supply. Suitable for direct burial

Standards

VDE 0276-603

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

Characteristics

Voltage Rating U_o/U
0.6/1kV

Operating Temperature
Operating: -5°C to +70°C



Construction

Conductor

RE: Class 1 solid aluminium-circular or circular compacted

RM: Class 2 stranded

SM: Class 2 sector - shaped

SE: Class 1 solid sector - shaped or stranded (available upon request)

Insulation

PVC (Polyvinyl Chloride)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Black



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	1.6	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

NAYY-O

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 Amps		IN AIR 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	-

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.