

ELAND[®]
CABLES

NAYY Aluminium Conductor PVC PVC - 0.6/1kV Cable



Eland Product Group: A9N

APPLICATION

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

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)

Core Identification

3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
7 core and above: ● Black with ○ White numbers

Sheath Colour

● Black

STANDARDS

VDE 0276-603

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



ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



DIMENSIONS

NAYY-J

ELAND PART NO.	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
NAYJA9NAY1016	1	RE	16	1	158	1.8	10.5	145
NAYJA9NAY1025	1	RE	25	1.2	180	1.8	12	195
NAYJA9NAY1035	1	RE	35	1.2	203	1.8	13.5	255
NAYJA9NAY1050	1	RM	50	1.4	231	1.8	15.4	298
NAYJA9NAY1070	1	RM	70	1.4	255	1.8	17	383
NAYJA9NAY1095	1	RM	95	1.6	285	1.8	19	490
NAYJA9NAY1120	1	RM	120	1.6	300	1.8	20	575
NAYJA9NAY1150	1	RM	150	1.8	330	1.8	22	695
NAYJA9NAY1185	1	RM	185	2	375	1.8	25	845
NAYJA9NAY1240	1	RM	240	2.2	420	1.8	28	1100
NAYJA9NAY1300	1	RM	300	2.4	450	1.9	30	1379
NAYJA9NAY1400	1	RM	400	2.6	510	2	34	1615
NAYJA9NAY1500	1	RM	500	2.8	555	2.1	37	2015
NAYJA9NAY1630	1	RM	630	2.8	645	2.2	43	2472
NAYJA9NAY3300	3	SM	300	2.4	708	3	59	4500
NAYJA9NAY40060	4	RE	6	1	204	1.8	17	377
NAYJA9NAY4010	4	RE	10	1	285	1.8	19	470
NAYJA9NAY4016	4	RE	16	1.2	288	1.8	24	750
NAYJA9NAY4025	4	RE	25	1.2	300	1.8	25	950
NAYJA9NAY4035	4	RE	35	1.2	354	1.8	28.1	1120
NAYJA9NAY4050	4	SM	50	1.4	354	1.9	29.5	1151
NAYJA9NAY4070	4	SM	70	1.4	420	2.1	33.4	1549
NAYJA9NAY4095	4	SM	95	1.6	468	2.2	39	2030
NAYJA9NAY4120	4	SM	120	1.6	516	2.4	43	2400
NAYJA9NAY4150	4	SM	150	1.8	552	2.5	46	3030
NAYJA9NAY4185	4	SM	185	2	612	2.7	51	3650
NAYJA9NAY4240	4	SM	240	2.2	696	2.9	58	4800
NAYJA9NAY4300	4	SM	300	2.4	786	3	65.5	5685
NAYJA9NAY5010	5	RE	10	1	232	1.8	19.3	585
NAYJA9NAY5016	5	RE	16	1	262	1.8	21.8	938
NAYJA9NAY5025	5	RE	25	1.2	325	1.8	27.1	1188
NAYJA9NAY5035	5	RE	35	1.2	362	1.8	30.2	1375
NAYJA9NAY5050	5	RM	50	1.4	432	1.8	36.2	1720
NAYJA9NAY5070	5	RM	70	1.4	492	2.1	44	2240
NAYJA9NAY5095	5	RM	95	1.6	564	2.1	47	3060
NAYJA9NAY5120	5	RM	120	1.6	612	2.4	53	3580
NAYJA9NAY5150	5	RM	150	1.8	672	2.5	56	4400
NAYJA9NAY5185	5	RM	185	2	804	2.7	59	5481
NAYJA9NAY5240	5	RM	240	2.2	852	2.9	71	7000

NAYY-O

ELAND PART NO.	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
NAYOA9NAY1016	1	RE	16	1	157	1.8	10.5	145
NAYOA9NAY1025	1	RE	25	1.2	180	1.8	12	195
NAYOA9NAY1035	1	RE	35	1.2	203	1.8	13.5	255
NAYOA9NAY1050	1	RM	50	1.4	225	1.8	15	298
NAYOA9NAY1070	1	RM	70	1.4	204	1.8	17	383
NAYOA9NAY1095	1	RM	95	1.6	285	1.8	19	490
NAYOA9NAY1120	1	RM	120	1.6	300	1.8	20	575
NAYOA9NAY1150	1	RM	150	1.8	330	1.8	22	695
NAYOA9NAY1185	1	RM	185	2	375	1.8	25	845
NAYOA9NAY1240	1	RM	240	2.2	420	1.8	28	1100
NAYOA9NAY1300	1	RM	300	2.4	450	1.9	30	1379
NAYOA9NAY1400	1	RM	400	2.6	510	2	34	1615
NAYOA9NAY1500	1	RM	500	2.8	555	2.1	37	2015
NAYOA9NAY1630	1	RM	630	2.8	645	2.2	43	2472
NAYOA9NAY1800	1	RM	800	2.9	675	2.4	45	3120
NAYOA9NAY3300	3	SE	300	2.4	708	3	59	4500
NAYOA9NAY4016	4	RE	16	1	288	1.8	24	750
NAYOA9NAY4025	4	RE	25	1.2	300	1.8	25	950
NAYOA9NAY4035	4	SE	35	1.2	338	1.8	28.1	1120
NAYOA9NAY4050	4	SE	50	1.4	360	1.9	30	1151
NAYOA9NAY4070	4	SE	70	1.4	420	2.1	35	1549
NAYOA9NAY4095	4	SE	95	1.6	468	2.2	39	2030
NAYOA9NAY4120	4	SE	120	1.6	516	2.4	43	2400
NAYOA9NAY4150	4	SE	150	1.8	552	2.5	46	3030
NAYOA9NAY4185	4	SE	185	2	612	2.7	51	3650
NAYOA9NAY4240	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.