



Eland Product Group: B3CA

APPLICATION

The NAY2Y is mainly used for power distribution in power stations, industrial installation and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air and in water under severe mechanical stressing during installation and operation.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Operating temperature: -30°C to +70°C
Maximum conductor temperature: +70°C

Short Circuit Temperature
160°C

Minimum Bending Radius
Single core: 15 x overall diameter
Multi core: 12 x overall diameter

CONSTRUCTION

Conductor
RE: Class 1 round solid aluminium
SE: Class 1 sector shaped solid aluminium
RM: Class 2 round stranded aluminium
SM: Class 2 sector shaped stranded aluminium

Insulation
PVC (Polyvinyl chloride)

Outer Sheath
HDPE (High-density polyethylene)

Core identification
1 core: ● Black
3 core + earth: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour
● Black

STANDARDS

VDE 0276-603, HD 308 S2, HD 603 S1

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



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

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR TYPE	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B3CA01016C2	1	16	RM	12.1	120
B3CA01016C1	1	16	RE	12.1	120
B3CA01025C2	1	25	RM	13.2	170
B3CA01035C2	1	35	RM	13.7	205
B3CA01050C2	1	50	RM	15.5	275
B3CA01070C2	1	70	RM	17.5	365
B3CA01095C2	1	95	RM	19.6	468
B3CA01120C2	1	120	RM	21.1	570
B3CA01150C2	1	150	RM	23.2	685
B3CA01185C2	1	185	RM	25.8	834
B3CA01240C2	1	240	RM	28.2	1015
B3CA01300C2	1	300	RM	31.9	1320
B3CA01400C2	1	400	RM	34.9	1640
B3CA03025/16C2	3	25+16	RM	26.5	507
B3CA03035/16C2	3	35+16	RM	29.5	620
B3CA03050/25C2	3	50+25	RM	32.1	890
B3CA03070/25C2	3	70+35	RM	35.7	1076
B3CA03070/25C3	3	70+35	SM	29.4	1096
B3CA03095/50C2	3	95+50	RM	41.3	1436
B3CA03095/50C3	3	95+50	SM	32.9	1456
B3CA03120/50C2	3	120+50	RM	44.4	1720
B3CA03120/70C2	3	120+70	RM	44.4	1773
B3CA03120/70C3	3	120+70	SM	35.4	1247
B3CA03150/70C2	3	150+70	RM	49.4	2150
B3CA03150/70C3	3	150+70	SM	39.5	2148
B3CA03185/95C2	3	185+95	RM	54.5	2680
B3CA03185/95C3	3	185+95	SM	43.3	2720
B3CA03240/120C2	3	240+120	RM	61	3695
B3CA03240/120C3	3	240+120	SM	48.8	3376
B3CA04016C2	4	16	RM	23.1	590
B3CA04016C1	4	16	RE	23.1	590
B3CA04025C2	4	25	RM	26.7	866
B3CA04035C2	4	35	RM	29.2	1060
B3CA04035C3	4	35	SM	26.5	760
B3CA04050C3	4	50	SM	29.6	960
B3CA04070C3	4	70	SM	33.4	1286
B3CA04095C3	4	95	SM	37.9	1725
B3CA04120C3	4	120	SM	41.3	2070
B3CA04150C3	4	150	SM	45.1	2575
B3CA04185C3	4	185	SM	49.4	3173
B3CA04240C3	4	240	SM	55.7	4008
B3CA04300C3	4	300	SM	61.0	4920
B3CA05016C2	5	16	RM	23.8	650
B3CA05025C2	5	25	RM	28.8	975
B3CA05035C2	5	35	RM	31.8	1200
B3CA05050C2	5	50	RM	37.5	1685
B3CA05070C2	5	70	RM	43.4	2260
B3CA05095C2	5	95	RM	49.5	2980
B3CA05120C2	5	120	RM	45.5	3630

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN AIR	IN GROUND	
16	-	-	1.910
25	110	160	1.200
35	135	193	0.868
50	166	230	0.641
70	210	283	0.443
95	259	340	0.32
120	302	389	0.253
150	345	436	0.206
185	401	496	0.164
240	479	578	0.125
300	555	656	0.100
400	653	759	0.077

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.