

ELAND®
CABLES

N2XBY Cable



Eland Product Group: B2K

APPLICATION

For installation indoors, in cable channels and in duct in ground in switchgear, power stations and industrial application, in harsh environments where a high level mechanical protection is required.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Test Voltage
3.5kV

Temperature Rating
Maximum Operating: +90°C
Maximum Short-Circuit: +250°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
Polyvinyl chloride (PVC)

Armour
Double galvanized steel tape

Outer Sheath
Polyvinyl chloride (PVC)

Core Identification
2 core: ● Brown ● Blue
3 core: ● Brown ● Blue ● Green/Yellow
4 core: ● Brown ● Black ● Grey ● Green/Yellow
5 core: ● Brown ● Blue ● Black ● Grey ● Green/Yellow
7 core and above: ● Black ● Green/Yellow

Outer Sheath Colour
● Green

STANDARDS

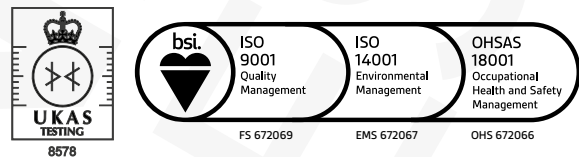
IEC 60502-1, VDE 0276-603, IS 1516.1

Flame retardant according to IEC 60332-1



UKAS LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, a UKAS accredited ISO 17025 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

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B2K020025GN	2	2.5	1.76	0.7	1.24	13	276
B2K020040GN	2	4	2.21	0.7	1.24	14	326
B2K020060GN	2	6	2.71	0.7	1.24	15	384
B2K02010GN	2	10	3.85	0.7	1.24	17	498
B2K02016GN	2	16	4.8	0.7	1.24	19	649
B2K02025GN	2	25	5.85	0.9	1.24	22	882
B2K02035GN	2	35	6.9	0.9	1.32	24	1113
B2K02050GN	2	50	8.1	1	1.4	27	1421
B2K02070GN	2	70	9.7	1.1	1.48	31	1899
B2K02095GN	2	95	11.4	1.1	1.64	35	2482
B2K030015GN	3	1.5	1.36	0.7	1.24	12	265
B2K030025GN	3	2.5	1.76	0.7	1.24	14	342
B2K030040GN	3	4	2.21	0.7	1.24	15	417
B2K030060GN	3	6	2.71	0.7	1.24	16	501
B2K03010GN	3	10	3.85	0.7	1.24	19	704
B2K03016GN	3	16	4.8	0.7	1.24	21	938
B2K03025GN	3	25	5.85	0.9	1.24	24	1315
B2K03035GN	3	35	6.9	0.9	1.32	26	1682
B2K03050GN	3	50	8.1	1	1.4	29	2176
B2K03070GN	3	70	9.7	1.1	1.48	34	2949
B2K03095GN	3	95	11.4	1.1	1.64	38	4004
B2K03120GN	3	120	12.65	1.2	1.72	42	5215
B2K03150GN	3	150	14.4	1.4	1.88	47	6413
B2K03185GN	3	185	15.75	1.6	2.04	51	7719
B2K03240GN	3	240	18.2	1.7	2.2	58	9961
B2K0316/10GN	3	16+10	4.8	0.7	1.24	21	1073
B2K03025/16GN	3	25+16	5.85	0.9	1.24	25	1511
B2K03035/16GN	3	35+16	6.9	0.9	1.32	27	1861
B2K03050/25GN	3	50+25	8.1	1	1.4	30	2377
B2K03070/35GN	3	70+35	9.7	1.1	1.56	35	3235
B2K03095/50GN	3	95+70	11.4	1.1	1.64	39	4634
B2K03120/70GN	3	120+70	12.65	1.2	1.8	44	5813
B2K03150/70GN	3	150+70	14.4	1.4	1.88	48	6888
B2K03185/95GN	3	185+95	15.75	1.6	2.04	52	8412
B2K03240/120GN	3	240+120	18.2	1.7	2.2	59	10679
B2K040015GN	4	1.5	1.36	0.7	1.24	13	309
B2K040025GN	4	2.5	1.76	0.7	1.24	14	369
B2K040040GN	4	4	2.21	0.7	1.24	16	469
B2K040060GN	4	6	2.71	0.7	1.24	17	577
B2K04010GN	4	10	3.85	0.7	1.24	20	821
B2K04016GN	4	16	4.8	0.7	1.24	22	1113
B2K04025GN	4	25	5.85	0.9	1.32	25	1593
B2K04035GN	4	35	6.9	0.9	1.4	28	2060
B2K04050GN	4	50	8.1	1	1.48	32	2637
B2K04070GN	4	70	9.7	1.1	1.56	36	3611
B2K04095GN	4	95	11.4	1.1	1.72	41	5355
B2K04120GN	4	120	12.65	1.2	1.88	46	6590
B2K04150GN	4	150	14.4	1.4	1.96	51	8096

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B2K04185GN	4	185	15.75	1.6	2.12	56	9795
B2K04240GN	4	240	18.2	1.7	2.36	63	12585
B2K050015GN	5	1.5	1.36	0.7	1.24	14	368
B2K050025GN	5	2.5	1.76	0.7	1.24	15	432
B2K050040GN	5	4	2.21	0.7	1.24	17	543
B2K050060GN	5	6	2.71	0.7	1.24	18	679
B2K05010GN	5	10	3.85	0.7	1.24	21	981
B2K05016GN	5	16	4.8	0.7	1.24	24	1351
B2K05025GN	5	25	5.85	0.9	1.32	28	1960
B2K05035GN	5	35	6.9	0.9	1.4	31	2539
B2K05050GN	5	50	8.1	1	1.48	35	3333
B2K05070GN	5	70	9.7	1	1.48	39	4507
B2K05095GN	5	95	11.4	1.1	1.56	44	6038

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR RESISTANCE AT 20°C Ω/km
	IN CONDUIT	IN AIR	
1.5	30	24	12,1
2.5	40	32	7,41
4	52	42	4,61
6	64	53	3,08
10	86	73	1,83
16	111	96	1,15
25	143	130	0,727
35	173	160	0,524
50	205	195	0,387
70	252	247	0,268
95	303	305	0,193
120	346	355	0,153
150	390	407	0,124
185	441	469	0,0991
240	511	551	0,0754