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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 U_o/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
● Black

STANDARDS

IEC 60502-1, VDE 0276-603, IS 1516.1, IEC/EN 60228

Flame retardant according to IEC/EN 60332-1

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



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, the RoHS Directive 2015/85/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





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
B2K020025BK	2	2.5	1.76	0.7	1.24	13	276
B2K020040BK	2	4	2.21	0.7	1.24	14	326
B2K020060BK	2	6	2.71	0.7	1.24	15	384
B2K02010BK	2	10	3.85	0.7	1.24	17	498
B2K02016BK	2	16	4.8	0.7	1.24	19	649
B2K02025BK	2	25	5.85	0.9	1.24	22	882
B2K02035BK	2	35	6.9	0.9	1.32	24	1113
B2K02050BK	2	50	8.1	1	1.4	27	1421
B2K02070BK	2	70	9.7	1.1	1.48	31	1899
B2K02095BK	2	95	11.4	1.1	1.64	35	2482
B2K030015BK	3	1.5	1.36	0.7	1.24	12	265
B2K030025BK	3	2.5	1.76	0.7	1.24	14	342
B2K030040BK	3	4	2.21	0.7	1.24	15	417
B2K030060BK	3	6	2.71	0.7	1.24	16	501
B2K03010BK	3	10	3.85	0.7	1.24	19	704
B2K03016BK	3	16	4.8	0.7	1.24	21	938
B2K03025BK	3	25	5.85	0.9	1.24	24	1315
B2K03035BK	3	35	6.9	0.9	1.32	26	1682
B2K03050BK	3	50	8.1	1	1.4	29	2176
B2K03070BK	3	70	9.7	1.1	1.48	34	2949
B2K03095BK	3	95	11.4	1.1	1.64	38	4004
B2K03120BK	3	120	12.65	1.2	1.72	42	5215
B2K03150BK	3	150	14.4	1.4	1.88	47	6413
B2K03185BK	3	185	15.75	1.6	2.04	51	7719
B2K03240BK	3	240	18.2	1.7	2.2	58	9961
B2K0316/10BK	3	16+10	4.8	0.7	1.24	21	1073
B2K03025/16BK	3	25+16	5.85	0.9	1.24	25	1511
B2K03035/16BK	3	35+16	6.9	0.9	1.32	27	1861
B2K03050/25BK	3	50+25	8.1	1	1.4	30	2377
B2K03070/35BK	3	70+35	9.7	1.1	1.56	35	3235
B2K03095/50BK	3	95+70	11.4	1.1	1.64	39	4634
B2K03120/70BK	3	120+70	12.65	1.2	1.8	44	5813
B2K03150/70BK	3	150+70	14.4	1.4	1.88	48	6888
B2K03185/95BK	3	185+95	15.75	1.6	2.04	52	8412
B2K03240/120BK	3	240+120	18.2	1.7	2.2	59	10679
B2K040015BK	4	1.5	1.36	0.7	1.24	13	309
B2K040025BK	4	2.5	1.76	0.7	1.24	14	369
B2K040040BK	4	4	2.21	0.7	1.24	16	469
B2K040060BK	4	6	2.71	0.7	1.24	17	577
B2K04010BK	4	10	3.85	0.7	1.24	20	821
B2K04016BK	4	16	4.8	0.7	1.24	22	1113
B2K04025BK	4	25	5.85	0.9	1.32	25	1593
B2K04035BK	4	35	6.9	0.9	1.4	28	2060
B2K04050BK	4	50	8.1	1	1.48	32	2637
B2K04070BK	4	70	9.7	1.1	1.56	36	3611
B2K04095BK	4	95	11.4	1.1	1.72	41	5355
B2K04120BK	4	120	12.65	1.2	1.88	46	6590
B2K04150BK	4	150	14.4	1.4	1.96	51	8096



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B2K04185BK	4	185	15.75	1.6	2.12	56	9795
B2K04240BK	4	240	18.2	1.7	2.36	63	12585
B2K050015BK	5	1.5	1.36	0.7	1.24	14	368
B2K050025BK	5	2.5	1.76	0.7	1.24	15	432
B2K050040BK	5	4	2.21	0.7	1.24	17	543
B2K050060BK	5	6	2.71	0.7	1.24	18	679
B2K05010BK	5	10	3.85	0.7	1.24	21	981
B2K05016BK	5	16	4.8	0.7	1.24	24	1351
B2K05025BK	5	25	5.85	0.9	1.32	28	1960
B2K05035BK	5	35	6.9	0.9	1.4	31	2539
B2K05050BK	5	50	8.1	1	1.48	35	3333
B2K05070BK	5	70	9.7	1	1.48	39	4507
B2K05095BK	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