

ELAND[®]
CABLES

NYBY PVC 0.6/1kV Power Cable



Eland Product Group: B2I

APPLICATION

The NYBY cable is suitable 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: +70°C
Maximum Short-Circuit: +160°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 2 Stranded copper

Insulation
PVC (Polyvinyl chloride)

Filler
PVC (Polyvinyl chloride)

Armour
Double galvanized steel tape

Outer Sheath
PVC (Polyvinyl chloride)

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

Outer Sheath Colour
● Black

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.



ISO 9001
Quality Management
FS 672069

ISO 14001
Environmental Management
EMS 672067

OHSAS 18001
Occupational Health and Safety Management
OHS 672066

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
B2I020015BK	2	1.5	1.37	0.8	1.24	12	273
B2I020025BK	2	2.5	1.76	0.8	1.24	13	319
B2I020040BK	2	4	2.22	1	1.24	15	415
B2I020060BK	2	6	2.72	1	1.24	15	469
B2I02010BK	2	10	3.85	1	1.24	18	639
B2I02016BK	2	16	4.8	1	1.24	20	830
B2I02025BK	2	25	5.85	1.2	1.24	23	1154
B2I02035BK	2	35	6.9	1.2	1.32	25	1481
B2I02050BK	2	50	8.1	1.4	1.4	29	1923
B2I02070BK	2	70	9.7	1.4	1.48	33	2747
B2I03010BK	3	10	3.85	1	1.24	19	742
B2I03016BK	3	16	4.8	1	1.24	21	985
B2I03025BK	3	25	5.85	1.2	1.24	24	1403
B2I03035BK	3	35	6.9	1.2	1.32	27	1818
B2I03050BK	3	50	8.1	1.4	1.4	31	2381
B2I03070BK	3	70	9.7	1.4	1.48	34	3179
B2I03095BK	3	95	11.4	1.6	1.64	39	4249
B2I03120BK	3	120	12.65	1.6	1.72	42	5128
B2I03150BK	3	150	14.4	1.8	1.88	48	6384
B2I03185BK	3	185	15.75	2	2.04	52	7806
B2I03240BK	3	240	18.2	2.2	2.2	59	10156
B2I0316/10BK	3	16+10	4.8	1	1.24	23	1280
B2I03025/16BK	3	25+16	5.85	1.2	1.24	26	1777
B2I03035/16BK	3	35+16	6.9	1.2	1.32	29	2167
B2I03050/25BK	3	50+25	8.1	1.4	1.4	33	2853
B2I03070/35BK	3	70+35	9.7	1.4	1.56	37	3770
B2I03095/50BK	3	95+50	11.4	1.6	1.64	42	4975
B2I03120/70BK	3	120+70	12.65	1.6	1.8	46	6131
B2I03150/70BK	3	150+70	14.4	1.8	1.88	50	7288
B2I03185/95BK	3	185+95	15.75	2	2.04	55	8960
B2I03240/120BK	3	240+120	18.2	2.2	2.2	61	11377
B2I040015BK	4	1.5	1.5	0.8	1.24	14	338
B2I040025BK	4	2.5	1.76	0.8	1.24	15	391
B2I040040BK	4	4	2.21	1	1.24	17	531
B2I040060BK	4	6	2.72	1	1.24	15	539
B2I04010BK	4	10	3.85	1	1.24	21	1016
B2I04016BK	4	16	4.8	1	1.24	23	1215
B2I04025BK	4	25	5.85	1.2	1.32	27	1900
B2I04035BK	4	35	6.9	1.2	1.4	30	2435
B2I04050BK	4	50	8.1	1.4	1.48	34	3173
B2I04070BK	4	70	9.7	1.4	1.56	38	4205
B2I04095BK	4	95	11.4	1.6	1.72	44	5594
B2I04120BK	4	120	12.65	1.6	1.88	47	6761
B2I04150BK	4	150	14.4	1.8	1.96	53	8335
B2I04185BK	4	185	15.75	2	2.12	58	10146
B2I04240BK	4	240	18.2	2.2	2.36	66	13204
B2I050015BK	5	1.5	1.37	0.8	1.24	14	372
B2I050025BK	5	2.5	1.76	0.8	1.24	16	453

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B2I050040BK	5	4	2.21	1	1.24	18	620
B2I050060BK	5	6	2.72	1	1.24	19	756
B2I05010BK	5	10	3.85	1	1.24	23	1123
B2I05016BK	5	16	4.8	1	1.24	25	1559
B2I05025BK	5	25	5.85	1.2	1.32	30	2241
B2I05035BK	5	35	6.9	1.2	1.4	33	2883
B2I05050BK	5	50	8.1	1.4	1.48	37	3804

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	32	20	12.1
2.5	42	27	7.41
4	54	37	4.61
6	68	48	3.08
10	90	66	1.83
16	116	89	1.15
25	150	118	0.727
35	181	143	0.524
50	215	176	0.387
70	264	224	0.268
10	75	60	1.83
16	98	80	1.15
25	128	106	0.727
35	157	131	0.524
50	185	159	0.387
70	228	202	0.268
95	275	244	0.193
120	313	282	0.153
150	353	324	0.124
185	399	371	0.0991
240	464	436	0.0754
16+10	98	80	1.15/1.83
25+16	128	106	0.727/1.15
35+16	157	131	0.524/1.15
50+25	185	159	0.387/0.727
70+35	228	202	0.268/0.524
95+50	275	244	0.193/0.387
120+70	313	282	0.153/0.268
150+70	353	324	0.124/0.268
185+95	399	371	0.0991/0.193
240+120	464	436	0.0754/0.153

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.