

XVB 1kV Cable



Eland Product Group: B1Y

APPLICATION

Installation cable with XLPE insulation, for domestic and industrial installations. Suited for indoor and outdoor use. This cable can be used in cable duct, cable tray, open air if protected from direct UV rays, embedded in concrete or cement or walls, in industries and houses. Not suitable for installation in ground.

CHARACTERISTICS

Voltage Rating U_0/U (Um)
0.6/1kV

Test Voltage
3.5kV AC

Temperature Rating
Operating: -15°C to +60°C
Minimum Installation: 0°C

Maximum Conductor Temperature
90°C

CONSTRUCTION

Conductor
Class 1 Solid copper
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
Filling compound or tape

Sheath
Fire-retardant PVC (Polyvinyl chloride)

Sheath Colour
● Grey

STANDARDS

NBN HD 604 Part 4/ Sect.G

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE 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 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	MINIMUM THICKNESS OF OUTER SHEATH mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OUTER DIAMETER mm	MAXIMUM OVEALL DIAMETER mm	NOMINAL WEIGHT kg/km
B1Y01016	1	16	1.09	0.7	9.2	10.1	195
B1Y01025	1	25	1.09	0.9	10.6	11.8	288
B1Y01035	1	35	1.09	0.9	11.8	13.1	381
B1Y01050	1	50	1.09	1.0	13.3	14.8	504
B1Y01070	1	70	1.09	1.1	15.5	16.7	707
B1Y01095	1	95	1.18	1.1	16.5	18.8	988
B1Y01120	1	120	1.18	1.2	18.1	20.6	1235
B1Y01150	1	150	1.26	1.4	20.3	23.0	1500
B1Y01185	1	185	1.26	1.6	22.2	25.2	1862
B1Y01240	1	240	1.35	1.7	25.2	28.2	2414
B1Y01300	1	300	1.43	1.8	27.5	31.0	3002
B1Y020015	2	1.5	1.09	0.7	9.0	10.7	121
B1Y020025	2	2.5	1.09	0.7	9.6	11.6	152
B1Y020040	2	4	1.09	0.7	10.6	12.8	201
B1Y020060	2	6	1.09	0.7	11.6	13.9	256
B1Y02010	2	10	1.09	0.7	12.9	15.8	355
B1Y02016	2	16	1.09	0.7	16.5	17.9	551
B1Y02025	2	25	1.26	0.9	19.8	21.8	807
B1Y030015	3	1.5	1.09	0.7	9.3	11.1	136
B1Y030025	3	2.5	1.09	0.7	10.1	12.2	175
B1Y030040	3	4	1.09	0.7	11.2	13.5	239
B1Y030060	3	6	1.09	0.7	12.3	14.7	309
B1Y03010	3	10	1.09	0.7	13.7	16.7	442
B1Y03016	3	16	1.18	0.7	17.7	19.1	693
B1Y03025	3	25	1.26	0.9	21.6	23.2	1045
B1Y03035	3	35	1.35	0.9	23.8	26.2	1357
B1Y03050	3	50	1.43	1.0	27.5	29.8	1863
B1Y03070	3	70	1.52	1.1	28.2	33.5	2232
B1Y03095	3	95	1.6	1.1	31.3	37.7	3020
B1Y03120	3	120	1.69	1.2	34.5	41.1	3826
B1Y03150	3	150	1.86	1.4	39	46.3	4682
B1Y03185	3	185	1.94	1.6	42.3	51.4	5786
B1Y03240	3	240	2.11	1.7	48.3	58.0	7574
B1Y040015	4	1.5	1.09	0.7	10.1	12.1	160
B1Y040025	4	2.5	1.09	0.7	11.0	13.1	209
B1Y040040	4	4	1.09	0.7	12.2	14.6	287
B1Y040060	4	6	1.09	0.7	13.3	16	378
B1Y04010	4	10	1.18	0.7	15.4	18.4	554
B1Y04016	4	16	1.18	0.7	19.5	21.0	867
B1Y04025	4	25	1.35	0.9	23.0	25.6	1274
B1Y04035	4	35	1.43	0.9	26.5	29	1714
B1Y04050	4	50	1.52	1.0	30.5	34.0	2363
B1Y04070	4	70	1.6	1.1	32.3	38.9	2950
B1Y04095	4	95	1.69	1.1	34.3	41.3	3515
B1Y04120	4	120	1.86	1.2	40.0	47.8	5101
B1Y04150	4	150	1.94	1.4	44.8	53.4	6173
B1Y04185	4	185	2.03	1.6	45.8	57.2	6770
B1Y04240	4	240	2.2	1.7	52.8	65.5	8770

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B1Y050015	5	1.5	1.09	0.7	10.8	13.0	183
B1Y050025	5	2.5	1.09	0.7	11.8	14.2	243
B1Y050040	5	4	1.09	0.7	13.2	15.8	338
B1Y050060	5	6	1.09	0.7	14.5	17.3	448
B1Y05010	5	10	1.18	0.7	16.5	19.8	663
B1Y05016	5	16	1.26	0.7	21.8	23.1	1082
B1Y05025	5	25	1.35	0.9	25.7	28.1	1530
B1Y05035	5	35	1.43	0.9	29.7	-	2143
B1Y070015	7	1.5	1.09	0.7	127.0	13.9	262
B1Y070025	7	2.5	1.09	0.7	12.7	15.3	304
B1Y090015	9	1.5	1.18	0.7	148.0	16.5	291
B1Y090025	9	2.5	1.09	0.9	18.3	18.5	563
B1Y100015	10	1.5	1.09	0.7	178.0	17.2	457
B1Y100025	10	2.5	1.18	0.7	19.1	19.3	600
B1Y120015	12	1.5	1.09	0.7	18.0	17.6	495
B1Y120025	12	2.5	1.18	0.7	20.0	19.8	647
B1Y140015	14	1.5	1.18	0.7	18.8	18.7	549
B1Y140025	14	2.5	1.18	0.7	20.4	20.8	722
B1Y190015	19	1.5	1.18	0.7	20.5	20.6	664
B1Y190025	19	2.5	1.26	0.7	22.5	23.2	877
B1Y210015	21	1.5	1.26	0.7	21.6	22.6	1169
B1Y240015	24	1.5	1.26	0.7	23.8	24.1	832
B1Y240025	24	2.5	1.26	0.7	25.7	27.1	1090
B1Y300015	30	1.5	1.35	0.7	24.7	25.6	1242
B1Y300025	30	2.5	1.43	0.7	27.2	28.9	1274
B1Y370015	37	1.5	1.35	0.7	26.5	27.6	1117
B1Y400015	40	1.5	1.43	0.7	27.3	29.3	1167

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY	
	SINGLE CORE (A)	MULTI-CORE (A)
1.5	-	23
2.5	-	32
4	-	42
6	-	54
10	-	75
16	102	100
25	135	127
35	169	157
50	207	192
70	268	246
95	328	299
120	379	346
150	443	399
185	509	456
240	604	538
300	699	-

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.