



Eland Product Group: B1L

APPLICATION

This cable is suitable for dry humid areas, in all type of factories, warehouses and depots where there is fire and explosion threat. Not suitable for underground. Used in fixed installations laying in conduit on and under plaster.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Test Voltage
3.5kV

Temperature Rating
Operating: -15°C to +90°C

Short Circuit Temperature
+250°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 1 Solid copper
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
PVC (Polyvinyl chloride)

Outer Sheath
PVC FR (Polyvinyl chloride Flame Retardant)

Sheath Colour
● Grey

CABLE THIRD-PARTY ACCREDITATION

KEMA Cables are tested and accredited by KEMA Laboratories in The Netherlands to KEMA K42C-1-4-D

STANDARDS

HD 604-S1-4D
Flame retardant according to EN-60332-3-24 Cat. C

In accordance with the installation standard IEC 60364 and as applicable to the equivalent National Codes for the rules for design, erection and verification of electrical installations, DIN VDE 0100, CEI 20-60, NEN 1010 and NF C15-100

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 2015/65/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
B1L01010GR	1	10	3.85	0.70	1.4	8.1	141
B1L01016GR	1	16	4.80	0.70	1.8	9.8	218
B1L01025GR	1	25	5.80	0.90	1.8	11.2	314
B1L01035GR	1	35	6.90	0.90	1.8	12.3	412
B1L01050GR	1	50	8.20	1.00	1.8	13.8	541
B1L01070GR	1	70	9.70	1.10	1.8	15.5	749
B1L01095GR	1	95	11.40	1.10	1.8	17.2	994
B1L01120GR	1	120	13.10	1.20	1.8	19.1	1241
B1L01150GR	1	150	14.20	1.40	1.8	20.6	1508
B1L01185GR	1	185	15.80	1.60	1.8	22.6	1863
B1L01240GR	1	240	18.60	1.80	1.8	25.6	2409
B1L01300GR	1	300	20.40	1.80	1.8	27.6	3042
B1L01400GR	1	400	25.00	2.20	2	33.4	3880
B1L020015GR	2	1.5	1.37	0.70	1.4	9.3	121
B1L020025GR	2	2.5	1.76	0.70	1.4	10.1	151
B1L020040GR	2	4	2.21	0.70	1.4	11.0	197
B1L020060GR	2	6	2.71	0.70	1.4	12.0	251
B1L02010GR	2	10	3.85	0.70	1.4	14.3	375
B1L02016GR	2	16	4.80	0.70	1.4	16.4	531
B1L02025GR	2	25	5.80	0.90	1.6	19.6	795
B1L02035GR	2	35	6.90	0.90	1.6	21.8	1039
B1L02050GR	2	50	8.20	1.00	1.8	25.4	1411
B1L030015GR	3	1.5	1.37	0.70	1.4	9.4	130
B1L030025GR	3	2.5	1.76	0.70	1.4	10.3	170
B1L030040GR	3	4	2.21	0.70	1.4	11.2	227
B1L030060GR	3	6	2.71	0.70	1.4	12.6	306
B1L03010GR	3	10	3.50	0.70	1.4	14.6	461
B1L03016GR	3	16	4.80	0.70	1.5	17.6	685
B1L03025GR	3	25	5.80	0.90	1.6	20.9	1025
B1L03035GR	3	35	6.90	0.90	1.7	23.4	1361
B1L03050GR	3	50	8.20	1.00	1.8	26.9	1824
B1L03070GR	3	70	9.70	1.10	1.9	31.0	2561
B1L03095GR	3	95	11.40	1.10	2	34.8	3407
B1L03120GR	3	120	13.10	1.20	2.1	39.2	4299
B1L03150GR	3	150	14.20	1.40	2.3	42.9	5261
B1L03185GR	3	185	15.80	1.60	2.4	47.5	6528
B1L03240GR	3	240	18.60	1.70	2.6	54.4	8511
B1L03300GR	3	300	20.40	1.80	2.8	59.5	10752
B1L040015GR	4	1.5	1.37	0.70	1.4	10.2	157
B1L040025GR	4	2.5	1.76	0.70	1.4	11.1	205
B1L040040GR	4	4	2.21	0.70	1.4	12.2	280
B1L040060GR	4	6	2.71	0.70	1.4	13.7	380
B1L04010GR	4	10	3.50	0.70	1.5	15.8	573
B1L04016GR	4	16	4.80	0.70	1.5	19.1	855
B1L04025GR	4	25	5.80	0.90	1.7	22.8	1291
B1L04035GR	4	35	6.90	0.90	1.8	26.1	1756
B1L04050GR	4	50	8.20	1.00	1.9	29.9	2348
B1L04070GR	4	70	9.70	1.10	2	34.4	3297

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B1L04095GR	4	95	11.40	1.10	2.1	38.8	4412
B1L04120GR	4	120	13.10	1.20	2.3	44.2	5618
B1L04150GR	4	150	14.20	1.40	2.4	48.2	6857
B1L04185GR	4	185	15.80	1.60	2.6	53.4	8516
B1L04240GR	4	240	18.60	1.70	2.8	61.9	11211
B1L04300GR	4	300	20.40	1.80	3	68.5	14303
B1L050015GR	5	1.5	1.37	0.70	1.4	11.5	199
B1L050025GR	5	2.5	1.76	0.70	1.4	12.6	262
B1L050040GR	5	4	2.21	0.70	1.4	13.8	357
B1L050060GR	5	6	2.71	0.70	1.4	15.1	468
B1L05010GR	5	10	3.50	0.70	1.5	18.4	744
B1L05016GR	5	16	4.80	0.70	1.6	21.4	1075
B1L05025GR	5	25	5.80	0.90	1.7	25.6	1626
B1L05035GR	5	35	6.90	0.90	1.8	28.7	2169
B1L05050GR	5	50	8.20	1.00	1.9	33.4	2942
B1L05070GR	5	70	9.70	1.10	2	38.2	4113
B1L05095GR	5	95	11.40	1.10	2.2	43.4	5537

ELECTRICAL CHARACTERISTICS

Single Core

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A				MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C ohm/km
	Flat Formation In Ground	Trefoil In Ground	Flat Formation in Air	Trefoil in Air	
10	109	90	96	77	1.83
16	139	115	128	102	1.15
25	179	149	173	139	0.727
35	213	178	212	170	0.524
50	251	211	258	208	0.387
70	307	259	328	265	0.268
95	366	310	404	329	0.193
120	416	352	471	381	0.153
150	465	396	541	438	0.124
185	246	449	626	507	0.0991
240	610	521	749	606	0.0754
300	689	587	864	697	0.0601
400	788	669	1018	816	0.0470

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.



Multi Core

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT AT 20°C ohm/km
	In Ground	In Air	
1.5	30	24	12.1
2.5	24	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
300	580	638	0.0601

