



Eland Product Group: B9A

APPLICATION

Power distribution cables in power stations, industrial installations and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air and in water – as permitted by the local building regulations – if protection against shock hazard in the event of mechanical damage or electrical screening is required. The concentric ceander conductor can be used as PE or PEN conductor and needs not be cut when assembling branch joints.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Test Voltage
4kV

Temperature Rating
Operating: -35°C to +70°C
Minimum laying temperature: -5°C
Maximum short circuit temperature for 5 sec: +160°C

Minimum Bending Radius
Multi Core: 12 x overall diameter

CONSTRUCTION

Conductor
Round or Sector Shaped Stranded Aluminium Conductor

Insulation
PVC (Polyvinyl Chloride)

Inner Sheath
EPDM (Ethylene Propylene Diene Monomer)

Concentric Screen
Bare Copper Wires, Copper Tape Counter Helix

Sheath
PVC (Polyvinyl Chloride) UV Resistant

Core Identification
2 core: ● Blue ● Brown
3 core: ● Brown ● Black ● Grey
4 core: ● Blue ● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

IEC 60502-1, VDE 0276-603, HD 603, IEC 60228

Flame Retardant according to IEC/EN 60332-1-2

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, 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	SHAPE OF CONDUCTOR	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM PULLING FORCE N
B9AR02016/10BK	2	16/16	RE	1.0	1.8	20	584	960
B9AM03016/10BK	3	16/16	RM	1.0	1.8	21	644	1440
B9AM03025/16BK	3	25/16	RM	1.2	1.8	26	887	2250
B9AS03050/25BK	3	50/25	SM	1.4	1.9	29	1248	4500
B9AE03050/50BK	3	50/50	SE	1.4	1.9	28	1315	4500
B9AE03070/70BK	3	70/70	SE	1.4	2.0	33	1772	6300
B9AS03095/50BK	3	95/50	SM	1.6	2.2	37	2099	8550
B9AE03095/95BK	3	95/95	SE	1.6	2.2	37	2326	8550
B9AS03120/70BK	3	120/70	SM	1.6	2.3	41	2565	10800
B9AE03120/120BK	3	120/120	SE	1.6	2.3	39	2783	10800
B9AS03120/70BK	3	150/70	SM	1.8	2.4	45	3083	13500
B9AS03150/150BK	3	150/150	SM	1.8	2.4	45	3513	13500
B9AE03150/150BK	3	150/150	SE	1.8	2.4	43	3377	13500
B9AS03185/95BK	3	185/95	SM	2.0	2.6	50	3760	16650
B9AS03185/185BK	3	185/185	SM	2.0	2.6	50	4324	16650
B9AE03185/185BK	3	185/185	SE	2.0	2.6	47	4155	16650
B9AE03240/120BK	3	240/120	SM	2.2	2.9	57	5604	21600
B9AE03240/240BK	3	240/240	SE	2.2	2.8	56	4781	21600
B9AR04016/10BK	4	16/16	RE	1.0	1.8	23	739	1290
B9AM04025/16BK	4	25/16	RM	1.2	1.8	28	1052	3000
B9AR04025/16BK	4	25/16	RE	1.2	1.8	27	1006	3000
B9AR04035/16BK	4	35/16	RE	1.2	1.8	29	1227	4200
B9AS04050/25BK	4	50/25	SM	1.4	2.0	31	1551	6000
B9AE04050/25BK	4	50/25	SE	1.4	2.0	31	1474	6000
B9AS04070/35BK	4	70/35	SM	1.4	2.1	35	1982	11400
B9AE04070/35BK	4	70/35	SE	1.4	2.1	34	1871	8400
B9AS04095/50BK	4	95/50	SM	1.6	2.3	40	2588	11400
B9AE04095/50BK	4	95/50	SE	1.6	2.3	39	2473	11400
B9AS04120/70BK	4	120/70	SM	1.6	2.4	45	3237	14400
B9AE04120/70BK	4	120/70	SE	1.6	2.4	43	3117	14400
B9AS04150/70BK	4	150/70	SM	1.8	2.6	50	3871	18000
B9AE04150/70BK	4	150/70	SE	1.8	2.6	47	3695	18000
B9AS04185/95BK	4	185/95	SM	2.0	2.8	55	4754	22200
B9AE04185/95BK	4	185/95	SE	2.0	2.8	53	4539	22200
B9AS04240/120BK	4	240/120	SM	2.2	3.0	62	6100	28800
B9AE04240/120BK	4	240/120	SE	2.2	3.0	58	5786	28800

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	SHAPE OF CONDUCTOR	CONDUCTOR RESISTANCE AT 20°C Ohm/km	TIME HEATING CONSTANT s	INDUCTIVITY mH/km	SHORT CIRCUIT CURRENT EQUIVALENT kA	CURRENT CARRYING CAPACITY A	
							In Air	In Ground
2	16/16	RE	1.91	135	-	1.217	73	94
3	16/16	RM	1.91	180	0.263	1.217	63	81
3	25/16	RM	1.20	237	0.258	1.902	86	106
3	50/25	SM	0.641	458	0.219	3.804	124	149
3	50/50	SE	0.641	472	0.221	3.804	122	147
3	70/70	SE	0.443	581	0.209	5.326	155	181
3	95/50	SM	0.320	690	0.207	7.228	192	217
3	95/95	SE	0.320	716	0.208	7.228	189	215
3	120/70	SM	0.253	822	0.201	9.130	223	247
3	120/120	SE	0.253	853	0.202	9.130	219	244
3	150/70	SM	0.206	974	0.201	11.413	256	277
3	150/150	SM	0.206	982	0.199	11.413	255	275
3	150/150	SE	0.206	1030	0.202	11.413	249	272
3	185/95	SM	0.164	1109	0.200	14.076	296	313
3	185/185	SM	0.164	1121	0.197	14.076	294	311
3	185/185	SE	0.164	1174	0.200	14.076	287	308
3	240/120	SM	0.125	1332	0.196	18.261	350	361
3	240/240	SE	0.125	1361	0.192	18.261	346	357
4	16/16	RE	1.91	169	0.285	1.217	65	82
4	25/16	RM	1.20	221	0.279	1.902	89	108
4	25/16	RE	1.20	227	0.283	1.902	88	107
4	35/16	RE	0.868	297	0.274	2.663	108	129
4	50/25	SM	0.641	424	0.245	3.804	129	150
4	50/25	SE	0.641	443	0.251	3.804	126	149
4	70/35	SM	0.443	530	0.235	5.326	162	184
4	70/35	SE	0.443	548	0.238	5.326	159	183
4	95/50	SM	0.320	635	0.232	7.228	201	221
4	95/50	SE	0.320	668	0.236	7.228	195	218
4	120/70	SM	0.253	766	0.226	9.130	231	249
4	120/70	SE	0.253	794	0.228	9.130	227	247
4	150/70	SM	0.206	906	0.224	11.413	265	280
4	150/70	SE	0.206	955	0.228	11.413	258	277
4	185/95	SM	0.164	1039	0.221	14.076	305	315
4	185/95	SE	0.164	1090	0.225	14.076	298	312
4	240/120	SM	0.125	1324	0.219	18.261	361	363
4	240/120	SE	0.125	1251	0.215	18.261	351	359

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.