



NR/PS/SIG/00005 Signalling Type B1, B2 Cable



Eland Product Group: A5R

APPLICATION

Heavy duty EPR insulated and Heavy duty PCP sheathed single, twin and multi-core cables.

CHARACTERISTICS

Voltage Rating Uo/U
6.5/1.1kV

Temperature Rating
-25°C to +85°C

CONSTRUCTION

Conductor

Class 2 stranded tinned conductor

Insulation

EPR (Ethylene Propylene Rubber)

Sheath

HDPCP (Heavy Duty Polychloroprene)

Sheath Colour

● Black

CABLE THIRD-PARTY ACCREDITATION



Network Rail (NR) certified and PADS listed as meeting the requirements for installation within their network

STANDARDS

NR/PS/SIG/00005

Flame Retardant according to BS EN / IEC 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 meets the requirements of 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.	NETWORK RAIL PART NO. / PADS	CABLE TYPE	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM THICKNESS OF SHEATH mm	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5RB101025	006/120061	B1	1	2.5	2	7.2	8.9	34
A5RB110010	006/120062	B1	1	10	2	9.4	11.8	205
A5RB110035	006/120063	B1	1	35	2	12.9	16.1	495
A5R02010	006/161004	B2	2	1	2	9.9	13	240
A5R02015	006/120081	B2	2	1.5	2	9.4	12.1	151
A5R02025	006/120082	B2	2	2.5	2	10.5	13.1	187
A5R02040	006/161005	B2	2	4	2	13.2	16.3	267
A5R0210	006/120083	B2	2	10	2	15	18.7	448
A5R0216	006/120113	B2	2	16	2	16.7	20.9	630
A5R0235	006/120084	B2	2	35	2.2	22.3	27.8	1520
A5R0270	006/120085	B2	2	70	2.4	28.8	36	1904
A5R0295	006/120086	B2	2	95	2.6	33.2	41.5	2885
A5R0310	006/161008	B2	3	10	2	17.3	20.7	525
A5R0316	006/161009	B2	3	16	2	19.8	23.2	770
A5R04075	006/120087	B2	4	0.75	2	10.2	12.8	173
A5R04015	006/120088	B2	4	1.5	2	10.9	13.7	220
A5R04025	006/120089	B2	4	2.5	2	11.9	14.8	264
A5R07075	006/120090	B2	7	0.75	2	11.8	14.7	240
A5R07015	006/120091	B2	7	1.5	2	12.6	15.8	305
A5R07025	006/120092	B2	7	2.5	2	13.8	17.2	390
A5R10075	006/120093	B2	10	0.75	2	14.4	18	345
A5R10015	006/120094	B2	10	1.5	2	15.6	19.4	405
A5R10025	006/120095	B2	10	2.5	2	17.1	21.3	565
A5R12075	006/120096	B2	12	0.75	2	14.8	18.5	350
A5R12015	006/120097	B2	12	1.5	2	16	20	465
A5R1225	006/120098	B2	12	2.5	2	17.6	22	570
A5R19075	006/120099	B2	19	0.75	2	17	21.3	490
A5R19015	006/120100	B2	19	1.5	2	18.5	23.1	649
A5R19025	006/120101	B2	19	2.5	2	20.4	25.5	886
A5R27075	006/120102	B2	27	0.75	2	20.1	25.1	640
A5R27015	006/120103	B2	27	1.5	2.2	22.2	27.8	880
A5R27025	006/120104	B2	27	2.5	2.2	24.6	30.7	1225
A5R37075	006/120105	B2	37	0.75	2.2	22.7	28.4	850
A5R37015	006/120106	B2	37	1.5	2.2	25.1	31.4	1190
A5R37025	006/120107	B2	37	2.5	2.4	27.8	34.7	1310
A5R48075	006/120108	B2	48	0.75	2.2	25.7	32.2	1590
A5R48015	006/120109	B2	48	1.5	2.4	28.1	35.1	1650
A5R48025	006/120110	B2	48	2.5	2.6	31.2	39	1980
A5R12075/6PR	006/120111	B2	6 x 2	0.75	2	19.7	24.6	465
A5R12025/6PR	006/120114	B2	6 x 2	2.5	2	23.7	29.6	570



CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor
	Cu	Al	Cu	Al	Cu	Al	Metal-Coated Wires
0.75	7	-	-	-	-	-	24.8
1	7	-	-	-	-	-	18.2
1.5	7	-	6	-	-	-	12.2
2.5	7	-	6	-	-	-	7.56
4	7	-	6	-	-	-	4.7
6	7	-	6	-	-	-	3.11
10	7	7	6	6	-	-	1.84
16	7	7	6	6	-	-	1.16
35	7	7	6	6	6	6	0.529
70	19	19	12	12	12	12	0.27
95	19	19	15	15	15	15	0.195

The above table is in accordance with BS EN 60228 (previously BS 6360)

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.