



NR/PS/SIG/00005 Signalling Type D1, D2 Cable



Eland Product Group: A5R

APPLICATION

Type D, LSZH single, twin and multi-core cables.

CHARACTERISTICS

Voltage Rating Uo/U
0.65/1.1kV

Temperature Rating
-25°C to +85°C

CONSTRUCTION

Conductor

Class 2 stranded tinned conductor

Insulation

LSZH (Low Smoke Zero Halogen) or
EPR (Ethylene Propylene Rubber)

Separator

PET (Polyethylene Terephthalate)

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

● Black

CABLE THIRD-PARTY ACCREDITATION



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

CABLE STANDARDS

NR/PS/SIG/00005, BS EN 60228, BS EN 60754-1/2

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 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





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
A5RD100075	006/120211	D1	1	0.75	2	6.5	8.1
A5RD10015	006/120212	D1	1	1.5	2	6.8	8.5
A5RD10025	006/120213	D1	1	2.5	2	7.2	8.9
A5RD10010	006/120214	D1	1	10	2	9.4	11.8
A5RD10035	006/120215	D1	1	35	2	12.9	16.1
A5RD202025	006/120217	D2	2	2.5	2	10.5	13.1
A5RD20210	006/120218	D2	2	10	2	15	18.7
A5RD20216	006/120226	D2	2	16	2	16.7	20.9
A5RD20235	006/120219	D2	2	35	2.2	22.3	27.8
A5RD20270	006/120220	D2	2	70	2.4	28.8	36
A5RD20295	006/120221	D2	2	95	2.6	33.2	41.5
A5RD204075	006/120222	D2	4	0.75	2	10.2	12.8
A5RD204015	006/120223	D2	4	1.5	2	10.9	13.7
A5RD204025	006/120224	D2	4	2.5	2	11.9	14.8
A5RD20410	006/120225	D2	4	10	2	18.8	19.2
A5RD207075	006/120227	D2	7	0.75	2	11.8	14.7
A5RD207015	006/120228	D2	7	1.5	2	12.6	15.8
A5RD207025	006/120229	D2	7	2.5	2	13.8	17.2
A5RD210075	006/120230	D2	10	0.75	2	14.4	18
A5RD210015	006/120231	D2	10	1.5	2	15.6	19.4
A5RD210025	006/120232	D2	10	2.5	2	17.1	21.3
A5RD212075	006/120233	D2	12	0.75	2	14.8	18.5
A5RD212015	006/120234	D2	12	1.5	2	16	20
A5RD212025	006/120235	D2	12	2.5	2	17.6	22.0
A5RD219075	006/120236	D2	19	0.75	2	17	21.3
A5RD219015	006/120237	D2	19	1.5	2	18.5	23.1
A5RD219025	006/120210	D2	19	2.5	2	20.4	25.5
A5RD227075	006/120238	D2	27	0.75	2	20.1	25.1
A5RD227015	006/120239	D2	27	1.5	2.2	22.2	27.8
A5RD227025	006/120240	D2	27	2.5	2.2	22.2	27.8
A5RD237075	006/120241	D2	37	0.75	2.2	22.7	28.4
A5RD237015	006/120242	D2	37	1.5	2.2	25.1	31.4
A5RD237025	006/120243	D2	37	2.5	2.4	27.8	34.7
A5RD248075	006/120244	D2	48	0.75	2.2	25.7	32.2
A5RD248015	006/120245	D2	48	1.5	2.4	28.1	35.1
A5RD248025	006/120246	D2	48	2.5	2.6	31.2	39
A5RD2060075/6PR	006/120247	D2	6 x 2	0.75	2	19.7	24.6
A5RD206015/6PR	006/120248	D2	6 x 2	1.5	2	21.4	26.8
A5RD206025/6PR	006/120249	D2	6 x 2	2.5	2	23.7	29.6



CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM 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.