NR/PS/SIG/00005
Signalling Type A1, A2, A3, A4 Cable

Eland Product Group: A9R

APPLICATION

Light duty LSZH sheathed single and multi-core generally for internal use. Smooth sheath suitable for installation in ducting.

CHARACTERISTICS

Voltage Rating Uo/U
6.5/1.1kV

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) composite

Separator
PET (Polyethylene Terephthalate)

Sheath
LSZH (Low Smoke Zero Halogen)

Sheath Colour
● Black
0.75mm² available in ● Violet ● Red ● Orange ● Grey ● Brown ● Blue ● Green ● Yellow
1.15mm² available in ● Blue ● Green ● Yellow

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, BS EN 60754-1, BS EN 60754-2, BS EN 60228,

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

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578
bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267
RoHS

DIMENSIONS

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	CABLE TYPE	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MINIMUM THICKNESS OF SHEATH mm	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5RA1010075BL	006/120001	A1 (Blue)	1	0.75	0.7	2.7	3.2	16
A5RA1010075BR	006/120002	A1 (Brown)	1	0.75	0.7	2.7	3.2	16
A5RA1010075RD	006/120003	A1 (Red)	1	0.75	0.7	2.7	3.2	16
A5RA1010075OR	006/120004	A1 (Orange)	1	0.75	0.7	2.7	3.2	16
A5RA1010075GR	006/120005	A1 (Grey)	1	0.75	0.7	2.7	3.2	16
A5RA1010075VI	006/120006	A1 (Violet)	1	0.75	0.7	2.7	3.2	16
A5RA1010075	006/120007	A1 (Black)	1	0.75	0.7	2.7	3.2	16
A5RA10015	006/120008	A1 (Black)	1	1.15	0.7	2.9	3.6	20
A5RA2010075	006/120020	A2	1	0.75	0.7	4	5	30
A5RA2010075BL	006/120021	A2 (Blue)	1	0.75	0.7	4	5	30
A5RA2010075GN	006/120022	A2 (Green)	1	0.75	0.7	4	5	30
A5RA2010075YW	006/120023	A2 (Yellow)	1	0.75	0.7	4	5	30
A5RA2010015	006/120024	A2	1	1.15	0.7	4.3	5.3	35
A5RA2010015BL	006/120025	A2 (Blue)	1	1.15	0.7	4.3	5.3	35
A5RA2010015GN	006/120026	A2 (Green)	1	1.15	0.7	4.3	5.3	35
A5RA2010015YW	006/120027	A2 (Yellow)	1	1.15	0.7	4.3	5.3	35
A5RA3020075	006/120040	A3	2	0.75	0.9	6.7	8.8	67
A5RA3040075	006/120041	A3	4	0.75	1	8	10.4	108
A5RA3060075	006/120042	A3	6	0.75	1.1	9.7	12.5	160
A5RA310075	006/120043	A3	10	0.75	1.2	12.6	16.1	259
A5RA314075	006/120044	A3	14	0.75	1.3	13.8	17.7	495
A5RA336075	006/120045	A3	36	0.75	1.6	21.6	26.9	752
A5RA348075	006/120046	A3	48	0.75	1.6	24.3	30.7	963
A5RA402075	006/120050	A4	2 + E	0.75	1	7.4	7.8	80
A5RA402025	006/120051	A4	2 + E	2.5	1.1	10.1	10.5	145

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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
1.15*	-	-	-	-	-	-	17.3
2.5	7	-	6	-	-	-	7.56

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

*16/0.3mm²

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