NR/PS/TEL/00015
Copper Trackside LSZH Cable

Eland Product Group: A8T

APPLICATION

Suitable for installation in trackside cable troughing, buried duct routes, tunnels and generally in areas where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gases when burnt which is particularly important where electronic equipment is installed.

CHARACTERISTICS

Temperature Rating
Fixed: -25°C to +85°C

Minimum Bending Radius
7.5 x overall diameter

CONSTRUCTION

Conductor
Class 1 solid copper conductor

Insulation
PE (Polyethylene) Type 03

Seperator
Impregnated Paper and/or Non-Hygroscopic Tape

Moisture Barrier
Aluminium/Polymer Laminate Tape

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/TEL/00015, BS 6234

Network Rail Certificate of Acceptance
No: PA05/03862

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 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

Conductor 0.63mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8T0263LSZH	006/168021	2	12.3	105
A8T0563LSZH	006/168022	5	13.8	158
A8T1063LSZH	006/168023	10	15.6	226
A8T2063LSZH	006/168024	20	18.1	332
A8T3063LSZH	006/168025	30	20.4	420
A8T5063LSZH	006/168026	50	24.2	618
A8T7563LSZH	006/168027	75	28.2	779
A8T10063LSZH	006/168028	100	31	1090

Conductor 0.90mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8T0209LSZH	006/168071	2	13.3	130
A8T0509LSZH	006/168072	5	15.6	219
A8T1009LSZH	006/168073	10	18.1	329
A8T2009LSZH	006/168074	20	21.9	520
A8T3009LSZH	006/168075	30	25.2	702
A8T5009LSZH	006/168076	50	30	1065
A8T7509LSZH	006/168077	75	35.8	1325
A8T10009LSZH	006/168078	100	39.1	1890

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ELECTRICAL CHARACTERISTICS

	2 PAIR	5 PAIR	10 PAIR	20 PAIR	30 PAIR	50 PAIR	75 PAIR	100 PAIR
0.63mm CONDUCTOR RESISTANCE (ohms/km)								
Maximum Average at 20°C	58	58	58	58	58	58	58	58
Maximum at 20°C	60	60	60	60	60	60	60	60
0.90mm CONDUCTOR RESISTANCE (ohms/km)								
Maximum Average at 20°C	28	28	28	28	28	28	28	28
Maximum at 20°C	30	30	30	30	30	30	30	30
INSULATION RESISTANCE MINIMUM (Mohms/km)	1500	1500	1500	1500	1500	1500	1500	1500
0.63mm MUTUAL CAPACITANCE (nF/km)								
Maximum Average	70	70	70	70	67	67	67	67
Maximum for 99% pairs	79	79	79	79	75	75	75	75
0.90mm MUTUAL CAPACITANCE (nF/km)								
Maximum Average	79	79	79	79	75	75	75	75
Maximum for 99% pairs	85	85	85	85	81	81	81	81
CAPACITANCE UNBALANCE (Maximum pF/500m)	800	275	275	275	275	275	275	275
0.63mm ATTENUATION (dB/km Maximum Average)								
1.0kHz	-	-	-	1.4	1.4	1.4	1.4	1.4
2.4kHz	-	-	-	2.15	2.15	2.15	2.15	2.15
1.024MHz	-	-	-	18.7	18.7	18.7	18.7	18.7
0.90mm ATTENUATION (dB/km Maximum Average)								
1.0kHz	-	-	-	0.95	0.95	0.95	0.95	0.95
2.4kHz	-	-	-	1.46	1.46	1.46	1.46	1.46
1.024MHz	-	-	-	14.6	14.6	14.6	14.6	14.6
NEXTA (dB Minimum)								
1kHz	-	-	-	70	70	70	70	70
1.024MHz (Within Units)	-	-	-	40	40	40	40	40
1.024MHz (Between Units)	-	-	-	47	47	47	47	47

* NEXTA at 1.0kHz shall have an average value better than 75dB