NR/PS/TEL/00015
Armoured Copper Trackside LSZH Cable

Eland Product Group: A8T

APPLICATION

Suitable for installation in trackside concrete cable troughing, buried duct route or for direct burial installations, and generallyin areas where smoke and toxic fumes may cause a threat to lifeand equipment. The cables produce no corrosive gases whenburnt which is particularly important where electronic equipmentis installed.

CHARACTERISTICS

Temperature Rating
-25°C to +85°C

Minimum Bending Radius
7.5 x overall diameter

CONSTRUCTION

Conductor
Class 1 solid copper conductor

Insulation
PE (Polyethylene)

Seperator
Impregnated Paper and/or Non-Hygroscopic Tape

Moisture Barrier
Aluminium/Polymer Laminate Tape

Bedding
LSZH (Low Smoke Zero Halogen)

Armour
Corrugated Steel/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

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

LSZH Armoured 0.63mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETEr mm	NOMINAL WEIGHT kg/km
A8T0263SLSZH	006/168031	2	20.3	380
A8T0563LSZH	006/168032	5	21.8	425
A8T1063SLSZH	006/168033	10	23.6	550
A8T2063SLSZH	006/168034	20	26.1	740
A8T3063SLSZH	006/168035	30	28.4	880
A8T5063SLSZH	006/168036	50	32.2	1150
A8T7563SLSZH	006/168037	75	36.2	1202
A8T10063SLSZH	006/168038	100	39	1760

LSZH Armoured 0.90mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8T0209SLSZH	006/168081	2	21.3	380
A8T0509SLSZH	006/168082	5	23.6	550
A8T1009SLSZH	006/168083	10	26.1	700
A8T2009SLSZH	006/168084	20	29.9	1000
A8T3009SLSZH	006/168085	30	33.2	1240
A8T5009SLSZH	006/168086	50	38	1220
A8T7509SLSZH	006/168087	75	43.8	2055
A8T10009SLSZH	006/168088	100	47.1	2780

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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	85	85	85	85
Maximum for 99% pairs	75	75	75	75	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