



# 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 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**  
-25°C to +85°C

**Minimum Bending Radius**  
7.5 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 1 solid copper conductor

**Insulation**  
PE (Polyethylene)

**Separator**  
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<sup>®</sup>

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](http://www.elandcables.com/company/about-us/esg-sustainability)



SCIENCE  
BASED  
TARGETS

**BUSINESS  
AMBITION FOR 1.5°C**



## 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<sup>®</sup>.





## 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
A8T0563SLSZH	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



## ELECTRICAL CHARACTERISTICS

	2 PAIR	5 PAIR	10 PAIR	20 PAIR	30 PAIR	50 PAIR	75 PAIR	100 PAIR
<b>0.63mm CONDUCTOR RESISTANCE (ohms/km)</b>								
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
<b>0.90mm CONDUCTOR RESISTANCE (ohms/km)</b>								
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
<b>INSULATION RESISTANCE MINIMUM (Mohms/km)</b>								
	1500	1500	1500	1500	1500	1500	1500	1500
<b>0.63mm MUTUAL CAPACITANCE (nF/km)</b>								
Maximum Average	70	70	70	70	67	67	67	67
Maximum for 99% pairs	79	79	79	79	75	75	75	75
<b>0.90mm MUTUAL CAPACITANCE (nF/km)</b>								
Maximum Average	79	79	79	79	85	85	85	85
Maximum for 99% pairs	75	75	75	75	81	81	81	81
<b>CAPACITANCE UNBALANCE (Maximum pF/500m)</b>								
	800	275	275	275	275	275	275	275
<b>0.63mm ATTENUATION (dB/km Maximum Average)</b>								
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
<b>0.90mm ATTENUATION (dB/km Maximum Average)</b>								
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
<b>NEXTA (dB Minimum)</b>								
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

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.