

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



Eland Product Group: **A8T**

APPLICATION

Suitable for installation in trackage 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.

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

PE (Polyethylene) Type 03 according to BS 6234

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)

CABLE STANDARDS

NR/PS/TEL/00015

Network Rail Certificate of Acceptance

No: PA05/03862



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Temperature Rating

-25°C to +85°C

Minimum Bending Radius

7.5 x overall diameter

Sheath Colour

● Black

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
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
MINIMUM INSULATION RESISTANCE (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