

# Armoured Copper Trackside Cable

Eland Product Group **A8T**



## Application

Suitable for installation in trackside concrete cable troughing, buried duct route or for direct burial installations.

## Standards

NR/PS/TEL/00015 (formerly RT/E/PS/00015)

## Technical Data

### PADS Approval

Certificate Number: PA05/03862

### Conductor

Class 1 solid plain copper conductor to BS EN 60228:2005 (previously BS6360)

### Insulation

PE (Polyethylene) Type 03 to BS6234

### Water Blocking Compound

Petroleum Jelly

### Separator

Impregnated paper and/or non-hygroscopic tape

### Moisture Barrier

Aluminium/Polymer Laminate Tape

### Sheath

PE (Polyethylene) Type 03C to BS6234

### Sheath Colour

Black

### Temperature Rating

-25°C to +85°C

### Minimum Bending Radius

10 x overall diameter

## Dimensions

### PE Armoured 0.63mm

Number of Pairs	Eland Part Number	Rail Catalogue Number	Nominal Overall Diameter mm	Nominal Weight kg/Km
2	A8T0263S	006/168011	15.3	215
5	A8T0563S	006/168012	18.1	302
10	A8T1063S	006/168013	19.5	369
20	A8T2063S	006/168014	21.6	489
30	A8T3063S	006/168015	23.6	608
50	A8T5063S	006/168016	26.9	837
75	A8T7563S	006/168017	30.3	1110
100	A8T10063S	006/168018	33.6	1391

**PE Armoured 0.90mm**

Number of Pairs	Eland Part Number	Rail Catalogue Number	Nominal Overall Diameter mm	Nominal Weight kg/Km
2	A8T0209S	006/168061	16.2	248
5	A8T0509S	006/168062	19.9	383
10	A8T1009S	006/168063	21.8	495
20	A8T2009S	006/168064	24.7	702
30	A8T3009S	006/168065	27.4	912
50	A8T5009S	006/168066	31.9	1317
75	A8T7509S	006/168067	36.2	1792
100	A8T10009S	006/168068	40.7	2300

**Electrical Characteristics**

	2Pr	5Pr	10Pr	20Pr	30Pr	50Pr	75Pr	100Pr
Conductor Resistance 0.63mm (ohms/Km)								
<b>Max. Average at 20°C</b>	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
<b>Max. at 20°C</b>	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Conductor Resistance 0.90mm (ohms/Km)								
<b>Max. Average at 20°C</b>	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
<b>Max. at 20°C</b>	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
<b>Insulation Resistance Min. (Mohms/Km)</b>	1500.0	1500.0	1500.0	1500.0	1500.0	1500.0	1500.0	1500.0
Mutal Capacitance (nF/Km)	-	-	-	-	-	-	-	-
<b>Max. Average</b>	70.0	70.0	70.0	70.0	67.0	67.0	67.0	67.0
<b>Max. for 99% pairs</b>	79.0	79.0	79.0	79.0	75.0	75.0	75.0	75.0
<b>Capacitance Unbalance (Max. pF/500m)</b>	800.0	275.0	275.0	275.0	275.0	275.0	275.0	275.0
Attenuation dB/Km Max. Average								
<b>0.63mm</b>								
<b>1.0KHz</b>	-	-	-	1.40	1.40	1.40	1.40	1.40
<b>2.4KHz</b>	-	-	-	2.15	2.15	2.15	2.15	2.15
<b>1.024MHz</b>	-	-	-	18.70	18.70	18.70	18.70	18.70
Attenuation dBKm Max. Average								
<b>0.90mm</b>								
<b>1.0KHz</b>	-	-	-	0.95	0.95	0.95	0.95	0.95
<b>2.4KHz</b>	-	-	-	1.46	1.46	1.46	1.46	1.46
<b>1.024MHz</b>	-	-	-	14.60	14.60	14.60	14.60	14.60
NEXTA (dB) * (minimum)								
<b>1KHz</b>	-	-	-	70.00	70.00	70.00	70.00	70.00
<b>1.024MHz (Within Units)</b>	-	-	-	40.00	40.00	40.00	40.00	40.00
<b>1.024MHz (Between Units)</b>	-	-	-	47.00	47.00	47.00	47.00	47.00

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

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.