

Copper Trackside Cable

Eland Product Group **A8T**



Application

Suitable for installation in trackside concrete cable troughing or buried duct routes.

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

7.5 x overall diameter

Dimensions

PE Duct 0.63mm

Number of Pairs	Eland Part Number	Rail Catalogue Number	Nominal Overall Diameter mm	Nominal Weight kg/Km
2	A8T0263	006/168001	8.9	68
5	A8T0563	006/168002	11.7	122
10	A8T1063	006/168003	13.1	171
20	A8T2063	006/168004	15.2	263
30	A8T3063	006/168005	17.2	359
50	A8T5063	006/168006	20.5	545
75	A8T7563	006/168007	23.9	776
100	A8T10063	006/168008	27.2	1016

PE Duct 0.90mm

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.

Number of Pairs	Eland Part Number	Rail Catalogue Number	Nominal Overall Diameter mm	Nominal Weight kg/Km
2	A8T0209	006/168051	9.8	90
5	A8T0509	006/168052	13.5	179
10	A8T1009	006/168053	15.4	268
20	A8T2009	006/168054	18.3	439
30	A8T3009	006/168055	21.0	615
50	A8T5009	006/168056	25.5	964
75	A8T7509	006/168057	29.8	1385
100	A8T10009	006/168058	34.9	1836

Electrical Characteristics

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

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