



Copper Trackside LSZH Cable

Eland Product Group **A8T**



Application

Suitable for installation in trackside cable troughing, and buried duct routes and generally in areas where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gasses when burnt which is particularly important where electronic equipment is installed.

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

Separator

Impregnated paper and/or non-hygroscopic tape

Moisture Barrier

Aluminium/Polymer Laminate Tape

Sheath

LSZH (Low Smoke Zero Halogen)

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	A8T0263LSZH	006/168021	8.9	68
5	A8T0563LSZH	006/168022	11.7	122
10	A8T1063LSZH	006/168023	13.1	171
20	A8T2063LSZH	006/168024	15.2	263
30	A8T3063LSZH	006/168025	17.2	359
50	A8T5063LSZH	006/168026	20.5	545
75	A8T7563LSZH	006/168027	23.9	776
100	A8T10063LSZH	006/168028	27.2	1016

PE Duct 0.90mm

Number of Pairs	Eland Part Number	Rail Catalogue Number	Nominal Overall Diameter mm	Nominal Weight kg/Km
2	A8T0209LSZH	006/168071	9.8	90
5	A8T0509LSZH	006/168072	13.5	179
10	A8T1009LSZH	006/168073	15.4	268
20	A8T2009LSZH	006/168074	18.3	439
30	A8T3009LSZH	006/168075	21.0	615
50	A8T5009LSZH	006/168076	25.5	964
75	A8T7509LSZH	006/168077	29.8	1385
100	A8T10009LSZH	006/168078	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

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.