



Armoured Copper Trackside Cable LSZH

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 gasses when burnt which is particularly important where electronic equipment is installed.

Standards

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

Technical Data

Network Rail Acceptance 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

Bedding

LSZH (Low Smoke Zero Halogen)

Armour

Corrugated steel/polymer laminate tape

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

Black

Temperature Rating

-25°C to +85°C

Minimum Bending Radius

10 x overall diameter

Dimensions

LSZH Armoured 0.63mm

Rail Catalogue Number	Number of Pairs	Nominal Overall Diameter mm	Nominal Weight kg/Km
006/168031	2	15.3	215
006/168032	5	18.1	302
006/168033	10	19.5	369
006/168034	20	21.6	489
006/168035	30	23.6	608
006/168036	50	26.9	837
006/168037	75	30.3	1110
006/168038	100	33.6	1391

LSZH Armoured 0.90mm

Rail Catalogue Number	Number of Pairs	Nominal Overall Diameter mm	Nominal Weight kg/Km
006/168081	2	16.2	248
006/168082	5	19.9	383
006/168083	10	21.8	495
006/168084	20	24.7	702
006/168085	30	27.4	912
006/168086	50	31.9	1317
006/168087	75	36.2	1792
006/168088	100	40.7	2300

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
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