

NR/PS/TEL/00015 Copper Trackside PE Cable



Eland Product Group: **A8T**

APPLICATION

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

CONSTRUCTION

Conductor

Class 1 solid copper conductor

Insulation

PE (Polyethylene) Type 03 according to BS 6234

Water Blocking Compound

Petroleum jelly

Separator

Impregnated Paper and/or Non-Hygroscopic Tape

Moisture Barrier

AL/P (Aluminium/Polymer Tape)

Sheath

PE (Polyethylene) Type 03C according to BS 6234

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

Fixed: -25 °C to +75°C

Minimum Bending Radius

7.5 x overall diameter

Sheath Colour

● Black

DIMENSIONS

Conductor 0.63mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8T0263	006/168001	2	10.5	71
A8T0563	006/168002	5	12	120
A8T1063	006/168003	10	13.8	190
A8T2063	006/168004	20	16.3	325
A8T3063	006/168005	30	18.6	435
A8T5063	006/168006	50	22.4	660
A8T7563	006/168007	75	26.4	930
A8T10063	006/168008	100	29.2	1230

Conductor 0.90mm

ELAND PART NO.	NETWORK RAIL PART NO. / PADS	NO. OF PAIRS	MAXIMUM OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8T0209	006/168051	2	11.5	95
A8T0509	006/168052	5	13.8	180
A8T1009	006/168053	10	16.3	246
A8T2009	006/168054	20	20.1	545
A8T3009	006/168055	30	23.4	750
A8T5009	006/168056	50	28.2	1175
A8T7509	006/168057	75	34	1541
A8T10009	006/168058	100	37.3	2051

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
INSULATION RESISTANCE MINIMUM (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	75	75	75	75
Maximum for 99% pairs	85	85	85	85	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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.