

# Intemp 250 Cable

Eland Product Group **A8I**



## Application

This high performance cable is designed to operate under more arduous high temperature conditions, providing moisture resistance, toughness, flexibility and a continuous conductor operating temperature of 250°C.

## Technical Data

### Conductor

Class 5 flexible nickel-plated copper conductor

### Sheath Colour

Natural

### Insulation

PFA (Perfluoroalkoxy)

### Voltage Rating

600/1000V

### Separator

Mica tape

### Temperature Rating

250°C

### Sheath

Glass fibre braid with a heat resistant varnish

### Minimum Bending Radius

10 x overall diameter

## Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Overall Diameter mm	Nominal Weight kg/Km
A8I0010	1 x 1.0	3.89	24
A8I0015	1 x 1.5	4.14	29
A8I0025	1 x 2.5	4.57	39
A8I0040	1 x 4.0	5.08	54
A8I0060	1 x 6.0	6.98	97
A8I010	1 x 10.0	8.15	141
A8I016	1 x 16.0	9.38	197

## Electrical Characteristics

### Current Carrying Capacity (amperes)

Nominal Cross Section Area mm <sup>2</sup>	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C ohms/Km	Current Rating Amps
1.0	0.21	20.000	25
1.5	0.26	13.700	40
2.5	0.26	8.210	54
4.0	0.31	5.090	74
6.0	0.31	3.390	98
10.0	0.41	1.950	135
16.0	0.41	1.240	180

**Rating Factors**

For higher ambient temperatures the following factors must be applied:

<b>Ambient Temperature</b>	100	120	140	160	180	200	220	240
<b>Factor</b>	0.94	0.87	0.80	0.73	0.64	0.54	0.42	0.24

When cables are enclosed a further de-rating of 0.8 must be applied. When cables are grouped together and touching, the following factors apply:

<b>No. of cables in group</b>	2	3	4	5	10	15	20	25
<b>Factor</b>	0.8	0.7	0.65	0.6	0.45	0.4	0.36	0.33

*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.*