

Intemp 250 Generally to BS G210 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.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
Fixed: -75°C to +250°C

Minimum Bending Radius
Fixed: 10 x overall diameter

CONSTRUCTION

Conductor
Class 5 flexible nickel-plated copper conductor

Insulation
PFA (Perfluoroalkoxy)

Separator
Mica tape

Sheath
Glass fibre braid with a heat resistant varnish

Sheath Colour
● Natural

STANDARDS

Generally to Specification for PTFE insulated equipment wire BS G210

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A8I0010	1	1	3.89	24
A8I0015	1	1.5	4.14	29
A8I0025	1	2.5	4.57	39
A8I0040	1	4	5.08	54
A8I0060	1	6	6.98	97
A8I010	1	10	8.15	141
A8I016	1	16	9.38	197

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	CURRENT RATING Amps
1	0.21	20	25
1.5	0.26	13.7	40
2.5	0.26	8.21	54
4	0.31	5.09	74
6	0.31	3.39	98
10	0.41	1.95	135
16	0.41	1.24	180

DE-RATING FACTORS

For higher ambient temperatures the following factors must be applied:

AMBIENT TEMPERATURE	100°C	120°C	140°C	Orange	160°C	180°C	200°C	220°C	240°C
DE-RATING FACTOR	0.94	0.87	0.80	OR	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:

NO. OF CABLES IN GROUP	2	3	4	5	10	15	20	25
DE-RATING FACTOR	0.8	0.7	0.65	0.6	0.45	0.4	0.36	0.33