

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 U_o/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.



8578



FS 672069



EMS 672067



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™.



KM 674267





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