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

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	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

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