318-B LSZH / H05Z1Z1-F
EN 50525-3-11 Flexible Cable

Eland Product Group: A5Z

APPLICATION

Used as an indoor general wiring cable primarily for installations in public areas. Examples include use on pendant lighting drops or as a general supply lead within hospital or airport projects. For installation where fire, smoke emission and toxic fumes create a potential risk to life and equipment.

CHARACTERISTICS

Voltage Rating (Uo/U)
300/500V

Temperature Rating
+5°C to +70°C

Minimum Bending Radius
5 x overall diameter

CONSTRUCTION

Conductor
Class 5 flexible copper conductor

Insulation
LSZH (Low Smoke Zero Halogen) Type TI6

Sheath
LSZH (Low Smoke Zero Halogen) Type TM7

Core Identification
2 core: Blue Brown
3 core: Green/Yellow Blue Brown
4 core: Green/Yellow Brown Black Grey
5 core: Green/Yellow Brown Black Grey Blue

Sheath Colour
White Black

STANDARDS

EN 50525-3-11 (HD21.14), EN 60228

Flame Retardant according to IEC/EN 60332-1-2

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.

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 THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5Z020075*	2	0.75	0.6	6.3	57
A5Z02010*	2	1	0.6	6.6	65
A5Z02015*	2	1.5	0.7	7.4	84
A5Z02025*	2	2.5	0.8	9	130
A5Z02040*	2	4	0.8	10.4	180
A5Z030075*	3	0.75	0.6	6.7	68
A5Z03010*	3	1	0.6	7	78
A5Z03015*	3	1.5	0.7	8	107
A5Z03025*	3	2.5	0.8	9.9	163
A5Z03040*	3	4	0.8	11.1	212
A5Z040075*	4	0.75	0.6	7.3	83
A5Z04010*	4	1	0.6	7.9	100
A5Z04015*	4	1.5	0.7	9	134
A5Z04025*	4	2.5	0.8	10.8	201
A5Z04040*	4	4	0.8	12.2	290
A5Z050075*	5	0.75	0.6	8.1	103
A5Z05010*	5	1	0.6	8.3	130
A5Z05015*	5	1.5	0.7	10.4	170
A5Z05025*	5	2.5	0.8	12.1	255
A5Z05040*	5	4	0.8	15	360

*Eland Part No. shown above designate the sheath colour (*). For each colour substitute * for a colour code as listed below. e.g. A5Z020075WH = 0.75mm² White

COLOUR CODES

COLOUR	White	Black
CODE	WH	BK

CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Plain Wires
0.75	0.6	6.3
1	0.6	6.6
1.5	0.7	7.4
2.5	0.8	9
4	0.8	10.4
0.75	0.6	8.1
1	0.6	8.3
1.5	0.7	10.4
2.5	0.8	12.1
4	0.8	15

The above table is in accordance with EN 60228

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ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY Amps		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (See regulations 522.7.2 and 559.6.1.5 of the 17th Edition of IEE Wiring Regulations) kg
	Single-Phase AC	Three-Phase AC	
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

The above table is in accordance with EN 60228

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16
4	12	10

Conductor operating temperature: 60°C*
* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:
90°C thermoplastic or thermoseting insulation : 1.09
The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

DE-RATING FACTORS

60°C Thermoplastic or Thermosetting Insulated Cords

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.