309-Y / H05V2V2-F EN 50525-2-11 Flexible Cable

Eland Product Group: A5Y

APPLICATION

For internal wiring or supply cords to electrical apparatus, particularly for use in high temperature zones such as lighting applications.

CHARACTERISTICS

Voltage Rating Uo/U
300/500V

Temperature Rating
Fixed: 0°C to +90°C

Minimum Bending Radius
Fixed: 6 x overall diameter
Flexed: 10 x overall diameter

CONSTRUCTION

Conductor
Class 5 flexible copper conductor

Insulation
PVC (Polyvinyl Chloride)

Sheath
PVC (Polyvinyl Chloride)

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

STANDARDS

EN 50525-2-11, 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 THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5Y020075HRWH	2	0.75	0.6	0.8	6.3	63
A5Y030075HRWH	3	0.75	0.6	0.8	6.7	74
A5Y03010HRWH	3	1	0.6	0.8	7	86
A5Y03015HRWH	3	1.5	0.7	0.9	8.1	115
A5Y03025HRWH	3	2.5	0.8	1	9.7	170
A5Y040075HRWH	4	0.75	0.6	0.8	7.3	78
A5Y04010HRWH	4	1	0.6	0.9	7.9	110
A5Y04015HRWH	4	1.5	0.7	1	9	140
A5Y04025HRWH	4	2.5	0.8	1.1	10.8	210
A5Y050075HRWH	5	0.75	0.6	0.9	8.1	105

ELECTRICAL CHARACTERISTICS

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		MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD (522.7.2 and 559.6.1.518th Edition of IEE Wiring Regulations) kg	CURRENT CARRYING CAPACITY Amps	
		Plain Wires	Metal-Coated Wires		Single-Phase AC	Three-Phase AC
0.75	0.21	26	26.7	3	6	6
1	0.21	19.5	20	5	10	10
1.5	0.26	13.3	13.7	5	16	16
2.5	0.26	7.98	8.21	5	25	20

The above table is in accordance with EN 60228 and Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

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

Conductor operating temperature: 60°C*

* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords. For other types of flexible cords they are to be multiplied by the following factors: for thermoplastic or thermoset insulation at 90°C: 1.09, at 105°C: 1.31

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

De-Rating factor for ambient temperature 60°C thermoplastic or thermosetting insulated cords

AIR 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.

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