318-Y / H05VV-F BS EN 50525-2-11 Flexible Cable

Eland Product Group: **A6Y**

APPLICATION

Light duty cable for use in domestic appliances, kitchens and offices. For use with light portable appliances such as radios, table lamps and office equipment. Generally unsuitable for outdoor use or industrial applications.

CONSTRUCTION

Conductor
Class 5 flexible copper conductor according to BS EN 60228 (previously BS 6360)

Insulation
PVC (Polyvinyl Chloride) Type TI2 according to BS EN 50363

Sheath
PVC (Polyvinyl Chloride) Type TM2 according to BS EN 50363

CABLE STANDARDS

BS EN 50525-2-11 (previously BS 6500), BASEC Approved, BS EN/IEC 60332-1-2

The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (Uo/U)
300/500V

Temperature Rating
Flexed: -5°C to +60°C

Minimum Bending Radius
Flexed: 8 x overall diameter

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

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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
A6Y020075*	2	0.75	0.6	6.3	57
A6Y02010*	2	1	0.6	6.6	65
A6Y02015*	2	1.5	0.7	7.4	84
A6Y02025*	2	2.5	0.8	9.1	130
A6Y030075*	3	0.75	0.6	6.7	68
A6Y03010*	3	1	0.6	7	78
A6Y03015*	3	1.5	0.7	8.1	108
A6Y03025*	3	2.5	0.8	9.9	163
A6Y03040*	3	4	0.8	11.3	227
A6Y040075*	4	0.75	0.6	7.3	82
A6Y04010*	4	1	0.6	7.9	100
A6Y04015*	4	1.5	0.7	9	134
A6Y04025*	4	2.5	0.8	10.8	201
A6Y050075*	5	0.75	0.6	8.1	102
A6Y05010*	5	1	0.6	8.6	120
A6Y05015*	5	1.5	0.7	10	166

*Eland Part No. shown above designate the sheath colour (*). For each colour either substitute * for a colour code as listed below. e.g. A6Y020075WH = 0.75mm² White

Colour Codes

COLOUR	Black	White
CODE	BK	WH

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
		Plain Wires ohms/km
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95

The above table is in accordance with BS EN 60228 (previously BS 6360)

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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 Table 4F3A of the 17th Edition of IEE Wiring Regulations.

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 above table is in accordance with Table 4F3B of the 17th Edition of IEE Wiring Regulations.

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 17th Edition of IEE Wiring Regulations.

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