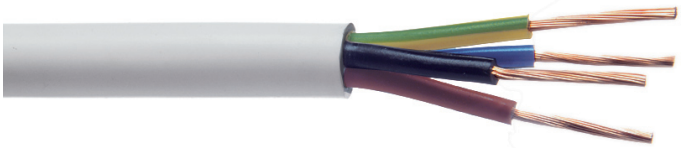
309-Y Flexible Cable H05V2V2-F

Eland Product Group **A5Y**



Application

Supply leads for use as 318-Y but particularly for use in high temperature zones, for internal wiring or supply cords to electrical apparatus. Not suitable for outdoor use.

Standards

BS6500, BS7919 above 4.0mm²

Technical Data

Conductor
Class 5 flexible plain copper conductors to BS EN 60228:2005 (previously BS6360)

Insulation
PVC (Polyvinyl Chloride)

Sheath
PVC (Polyvinyl Chloride)

Sheath Colour
White

Voltage Rating
300/500V

Temperature Rating
0°C to +90°C

Minimum Bending Radius
6 x overall diameter

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

Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm²	Nominal Thickness of Insulation mm	Nominal Diameter Over Laid Up Cores mm	Nominal Overall Diameter mm	NominalWeight kg x Km
A5Y020075HRWH	2 x 0.75	0.6	5.4	7.0	63
A5Y030075HRWH	3 x 0.75	0.6	5.8	7.6	74
A5Y03010HRWH	3 x 1.00	0.6	6.3	8.0	86
A5Y03015HRWH	3 x 1.50	0.7	7.1	9.1	115
A5Y03025HRWH	3 x 2.50	0.8	8.4	10.8	170
A5Y040075HRWH	4 x 0.75	0.6	6.3	8.1	78
A5Y04010HRWH	4 x 1.00	0.6	6.8	8.6	110
A5Y04015HRWH	4 x 1.50	0.7	7.8	9.8	140
A5Y04025HRWH	4 x 2.50	0.8	9.2	11.4	210
A5Y050075HRWH	5 x 0.75	0.6	7.0	8.8	105

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Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

1	2	3	4
Nominal Cross Sectional Area mm²	**Maximum Diameter of Wires in Conductor** mm	**Maximum Resistance of Conductor at 20°C**	
		Plain Wires ohms/km	**Metal-Coated Wires** ohms/km
0.75	0.21	26.0000	26.7000
1.00	0.21	19.5000	20.0000
1.50	0.26	13.3000	13.7000
2.50	0.26	7.9800	8.2100

Table in accordance with BS EN 60228:2005 (previously BS6360)

Electrical Characteristics

Current Carrying Capacity (amperes): and Mass Supportable (kg)

Conductor Cross Sectional Area mm²	Current Carrying Capacity		Maximum Mass Supportable by Twin Flexible Cord (see Regulations 522.7.2 and 559.6.1.5) kg
	Single Phase AC Amps	Three Phase AC Amps	
1	2	3	4
0.75	6	6	3
1.00	10	10	5
1.50	16	16	5
2.50	25	20	5

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

Ambient Temperature	35°C	40°C	45°C	50°C	55°C
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.

Voltage Drop (per ampere per metre)

Conductor Cross Sectional Area mm²	DC or Single Phase AC mV/A/m	Three Phase AC mV/A/m
1	2	3
0.75	62	54
1.00	46	40
1.50	32	27
2.50	19	16

Conductor operating temperature: 60°C*

* The tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexibe cords they are to be multiplied by the following factors:

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

The information contained within this datasheet is for guidance only. When selecting accessories such as cleats, glands, etc please note that actual cable dimensions may vary due to manufacturing tolerances.