

2491X Flexible Cable to BS6004 H05V-K H07V-K

Eland Product Group **A5V**



Application

Designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

Standards

BS6004, CENELEC HD21.3

Technical Data

Conductor

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

Insulation

PVC (Polyvinyl Chloride) Type TI 1 to BS7655

Insulation Colour

Black, Blue, Green/Yellow, Red, Yellow, White, Violet, Brown, Grey, Orange, Pink

Voltage Rating

H05V-K 300/500V, H07V-K 450/750V

Temperature Rating

0°C to +70°C

Minimum Bending Radius

6 x overall diameter

Dimensions

H05V-K

Eland Part Number	Nominal Cross Sectional Area mm ²	Nominal Overall Diameter mm	Nominal Weight kg/Km
A5VK*0075	0.75	2.3	10.6
A5VK*0010	1.00	2.5	13.7

H07V-K

Eland Part Number	Nominal Cross Sectional Area mm ²	Nominal Overall Diameter mm	Nominal Weight kg/Km
A7VK*0015	1.5	3.1	20
A7VK*0025	2.5	3.6	31
A7VK*0040	4.0	4.3	46
A7VK*0060	6.0	5.5	75
A7VK*010	10.0	6.8	125
A7VK*016	16.0	8.6	199
A7VK*025	25.0	10.0	299
A7VK*035	35.0	11.5	421
A7VK*050	50.0	13.8	539
A7VK*070	70.0	15.6	730
A7VK*095	95.0	17.5	973

Eland Part Numbers shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A7VKR0040 = 4.0mm² Red

Colour	Black	Blue	Grey	Green/ Yellow	Red	Yellow	White	Violet	Brown	Orange	Pink
Code	BK	BL	GR	GY	RD	YW	WH	VI	BR	OR	PK

Conductors

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

1	2	3	4
Nominal Cross Sectional Area mm ²	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
4.00	0.31	4.9500	5.0900
6.00	0.31	3.3000	3.3900
10.00	0.41	1.9100	1.9500
16.00	0.41	1.2100	1.2400
25.00	0.41	0.7800	0.7950
35.00	0.41	0.5540	0.5650
50.00	0.41	0.3860	0.3930
70.00	0.51	0.2720	0.2770
95.00	0.51	0.2060	0.2100

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

Electrical Characteristics

Resistance Values (ohms per kilometre and Mohms per kilometre)

H05V-K

Eland Part Number	Nominal Cross Sectional Area mm ²	Conductor Resistance at 20°C Max. ohms/Km	Insulation Resistance at 70°C Min. Mohms/Km
A5VK*0075	0.75	26.0	0.013
A5VK*0010	1.00	19.5	0.011

H07V-K

Eland Part Number	Nominal Cross Sectional Area mm ²	Conductor Resistance at 20°C Max. ohms/Km	Insulation Resistance at 70°C Min. Mohms/Km
A7VK*0015	1.5	13.3	0.0100
A7VK*0025	2.5	8.0	0.0090
A7VK*0040	4.0	5.0	0.0070
A7VK*0060	6.0	3.3	0.0060
A7VK*010	10.0	1.9	0.0065
A7VK*016	16.0	1.2	0.0046
A7VK*025	25.0	0.8	0.0044
A7VK*035	35.0	0.6	0.0038
A7VK*050	50.0	0.4	0.0037
A7VK*070	70.0	0.3	0.0032
A7VK*095	95.0	0.2	0.0032

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.