

318-TQ Cable H05BN4-F

Eland Product Group A5Q

Application

Flexible cords suitable for use in domestic premises, kitchens and offices. Also suitable for use in hot situations such as immersion heaters. Good resistance to oil and grease.

Standards

BS6500

Conductor

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

Insulation

EPR (Ethylene Propylene Rubber) Type EI1

Sheath

CSP (Chlorosulphonated Polyethylene)

Sheath Colour

White

Voltage Rating

300/500V

Temperature Rating

-20°C to +85°C

Minimum Bending Radius

6 x overall diameter

Conductor Identification

2 Cores: Brown, Blue

3 Cores: Brown, Blue, Green/Yellow

4 Cores: Brown, Blue, Black, Green/Yellow

5 Cores: Brown, Blue, Black, Black, Green/Yellow



Dimensions

Eland Part Numbers	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A5Q02010	2 x 1.00	0.6	7.1	77
A5Q02015	2 x 1.50	0.8	8.7	115
A5Q02025	2 x 2.50	0.9	10.1	165
A5Q03010	3 x 1.00	0.6	7.6	90
A5Q03015	3 x 1.50	0.8	9.3	135
A5Q03025	3 x 2.50	0.9	10.8	195
A5Q04010	4 x 1.00	0.6	8.2	110

Conductors

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

1	2	4
Nominal Cross Sectional Area mm ²	Maximum Diameter of Wires in Conductors mm	Maximum Resistance of Conductor at 20°C Metal-Coated Wires ohms/km
1.00	0.21	20.0000
1.50	0.26	13.7000
2.50	0.26	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 mm ²	Current Carrying Capacity		Maximum Mass Supportable by Twin Flexible Cord (see Regulation 522-08-06) kg
	Single Phase AC A	Three Phase AC A	
1	2	3	4
1.00	10	10	5
1.50	16	16	5
2.50	25	20	5

Correction factor for ambient temperature

85°C and 90°C thermoplastic (pvc) or thermosetting (rubber) insulated cords:

Ambient Temperature	35 to 50°C	55°C	60°C	65°C	70°C
Correction Factor	1.0	0.96	0.83	0.67	0.47

The above table is in accordance with Table 4H3A of the 16th Edition of IEE Wiring Regulations.

Voltage Drop (per ampere per metre)

Conductor Cross Sectional Area mm ²	DC or Single Phase AC mV/A/m	Three Phase AC mV/A/m
1	2	3
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 (pvc) or thermosetting (rubber) insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

Datasheet Continues »

For	85°C and 90°C thermoplastic or thermosetting insulated	1.09
	180°C thermosetting insulated	1.31
	185°C glass fibre	1.43

The above table is in accordance with Table 4H3B of the 16th Edition of IEE Wiring Regulations.

The Current Carrying Capacities in this appendix are based upon the following reference ambient temperatures:

For non-sheathed and sheathed cables in air, irrespective of the Installation Method: 30°C

For buried cables, either directly in the soil or in ducts in the ground: 20°C

The current ratings stated are based on conservative assumptions, and therefore, in some instances, may be adjusted according to the ambient installation and operating conditions.