

# Festoon Lighting External Cable H05RNH-F

Eland Product Group **A5F****Application**

A twin flat flexible weather and oil resistant cable, for use in decorative chains outdoors.

**Standards**

IEC 60598-1

**Conductor**

Class 5 annealed circular copper conductor to BS EN 60228:2005 (previously BS6360)

**Insulation**

EPDM (Ethyl Propyl Dimethyl) Type EI4

**Sheath**

Weather and oil resistant Rubber Class EM2

**Sheath Colour**

Black or Yellow

**Voltage Rating**

300/500V

**Temperature Rating**

-25°C to +60°C

**Minimum Bending Radius**

6 x overall diameter (flat side against flat side)

**Dimensions**

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Cable Dimensions (Thickness x Width) mm x mm	Nominal Weight kg/Km
A5FL*2025	2 x 2.5	1.0	1.0	6.3 x 9.8	11

\* Eland Part numbers shown above designate the sheath colour (\*). For each colour substitute \* for a colour code as; Blue: BL and Yellow: YW

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

1	2	4
Nominal Cross Sectional Area mm <sup>2</sup>	Maximum Diameter of Wires in Conductor mm	Maximum Resistance of Conductor at 20°C Plain Wires ohms/Km
2.5	0.26	7.98

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

**Electrical Characteristics****Current Carrying Capacity (amperes): and Mass Supportable (kg)**

Nominal Cross Sectional Area mm <sup>2</sup>	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
2.5	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

**Voltage Drop (per ampere per metre)**

Nominal Cross Sectional Area mm <sup>2</sup>	DC or Single Phase AC mV/A/m	Three Phase AC mV/A/m
1	2	3
2.5	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: