

218-Y / H03VV-F BS EN 50525-2-11 Flexible Cable



Eland Product Group: **A3Y**

APPLICATION

Light duty cable for use in domestic premises, kitchens and offices. For use with light portable appliances such as radios, table lamps and office equipment.

CONSTRUCTION

Conductor

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

Insulation

PVC (Polyvinyl Chloride) Type T12 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, CENELEC HD21.5), VDE 281, 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 (U_o/U)
300/300V

Temperature Rating
Flexed: +5°C to +70°C

Minimum Bending Radius
Flexed: 6 x overall diameter

Core Identification
2 core: ● Blue ● Brown
3 core: ● Blue ● Brown ● Green/Yellow

Sheath Colour
○ White ● Black

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A3Y020050*	2	0.5	0.5	0.6	5.0	37
A3Y020075*	2	0.75	0.5	0.6	5.5	46
A3Y030050*	3	0.5	0.5	0.6	5.3	44
A3Y030075*	3	0.75	0.5	0.6	5.8	55
A3Y040050*	4	0.5	0.5	0.6	5.8	54

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A3Y020050BK = 0.5mm² Black

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 mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
		Plain Wires ohms/km
0.5	0.21	39
0.75	0.21	26

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

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY		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 Amps	Three-Phase AC Amps	
0.5	3	3	2
0.75	6	6	3

The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.

Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m
0.5	93	80
0.75	62	54

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

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