

## 218-Y/H03VV-F BS EN 50525-2-11

# Flexible Cable



### 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 TI2 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<sub>o</sub>/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

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### Dimensions:

Order code	Part No.	Colour	No. of cores	Nominal cross sectional area mm <sup>2</sup>	Nominal thickness of insulation mm	Nominal thickness of sheath mm	Nominal overall diameter mm	Nonimal weight kg/km
<b>02-0233</b>	UMF020050BK	Black	2	0.5	0.5	0.6	5.0	37
<b>02-0234</b>	UMF020050WH	White						
<b>02-0235</b>	UMF030050BK	Black	3	0.5	0.5	0.6	5.3	44
<b>02-0236</b>	UMF030050WH	White						
<b>02-0237</b>	UMF020075BK	Black	2	0.75	0.5	0.6	5.5	46
<b>02-0238</b>	UMF020075WH	White						
<b>02-0239</b>	UMF030075BK	Black	3	0.75	0.5	0.6	5.8	55
<b>02-0240</b>	UMF030075WH	White						

### 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 <sup>2</sup>	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).

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### Electrical Characteristics:

Current Carrying Capacity and Mass Supportable

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 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 <sup>2</sup>	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