

318-Y / H05VV-F BS EN 50525-2-11 Flexible Cable



Application:

Ordinary duty PVC cable for use in domestic appliances, kitchens and offices. For use with light portable appliances such as radios, table lamps and office equipment. Generally unsuitable for outdoor use or industrial applications.

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), BASEC Approved, 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)

300/500V

Temperature Rating

Flexed: 5°C to 70°C

Minimum Bending Radius

Flexed: 8 x overall diameter

Core Identification

2 core: ● Blue ● Brown

3 core: ● Green/Yellow ● Blue ● Brown

4 core: ● Green/Yellow ● Brown ● Black ● Grey

5 core: ● Green/Yellow ● Brown ● Black ● Grey ● Blue

Sheath Colour

○ White ● Black

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Dimensions:

Order code	Part No.	Colour	No. of cores	Nominal cross sectional area mm ²	Nominal thickness of insulation mm	Nominal overall diameter mm	Nonimal weight kg/km
02-0331	UMF6Y020075BK	Black	2	0.75	0.6	6.3	57
02-0332	UMF6Y020075WH	White					
02-0333	UMF6Y02010BK	Black	2	1.0	0.6	6.6	65
02-0334	UMF6Y02010WH	White					
02-0335	UMF6Y02015WH	Black	2	1.5	0.7	7.4	84
02-0336	UMF6Y02015BK	White					
02-0337	UMF6Y030075BK	Black	3	0.75	0.6	6.7	68
02-0338	UMF6Y030075WH	White					
02-0339	UMF6Y03010BK	Black	3	1.0	0.6	7	78
02-0340	UMF6Y03010WH	White					
02-0341	UMF6Y03015BK	Black	3	1.5	0.7	8.1	108
02-0342	UMF6Y03015WH	White					
02-0343	UMF6Y03025BK	Black	3	2.5	0.8	9.9	163
02-0344	UMF6Y03025WH	White					
02-0345	UMF6Y040075BK	Black	4	0.75	0.6	7.3	82
02-0346	UMF6Y040075WH	White					
02-0347	UMF6Y04010BK	Black	4	1.0	0.6	7.9	100
02-0348	UMF6Y04010WH	White					
02-0349	UMF6Y04015BK	Black	4	1.5	0.7	9	134
02-0350	UMF6Y04015WH	White					
02-0351	UMF6Y050075BK	Black	5	0.75	0.6	8.1	102
02-0352	UMF6Y050075WH	White					
02-0353	UMF6Y05010BK	Black	5	1.0	0.6	8.6	120
02-0354	UMF6Y05010WH	White					
02-0355	UMF6Y05015BK	Black	5	1.5	0.7	10	166
02-0356	UMF6Y05015WH	White					

Colour Codes:

Colour	Black	White
Code	BK	WH

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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
0.75	0.21	26
1.0	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98

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	
0.75	6	6	3
1.0	10	10	5
1.5	16	16	5
2.5	25	25	5

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
0.75	62	54
1.0	46	40
1.5	32	27
2.5	19	16

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