

Flex Cable Overview

This cable is designed for use in a variety of domestic applications such as in living rooms, kitchens, bedrooms with a voltage rating of 300/500V. For example, you'd ordinarily find this type of cable carrying power from a 13A wall socket to a bedside table lamp, small fan heater or any other area where the risk of damage is low.

Flex Cable Specifications

- Voltage Rating: 300/500V
- Temperature Rating:
 - Flexed: +5°C to +70°C
- Minimum Bending Radius:
 - Flexed: 8 x overall diameter
- Conductor: Class 5 flexible copper conductor
- Insulation: PVC (Polyvinyl Chloride)
- Sheath: PVC
- 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
- Cables are tested and accredited by BASEC, The British Approvals Service for Cables
- British Standards: EN 50525-2-11, EN 60228 Flame Retardant according to IEC/EN 60332-1-2

Flex Cable Dimensions

Number of Cores	Nominal Cross Sectional Area (mm ²)	Nominal Thickness of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Weight (Kg per km)
2	0.75	0.6	6.3	57
2	1	0.6	6.6	65
2	1.5	0.7	7.4	84
2	2.5	0.8	9.1	130
3	0.75	0.6	6.7	68
3	1	0.6	7	78
3	1.5	0.7	8.1	108
3	2.5	0.8	9.9	163
3	4	0.8	11.3	227
4	0.75	0.6	7.3	82
4	1	0.6	7.9	100
4	1.5	0.7	9	134
4	2.5	0.8	10.8	201
5	0.75	0.6	8.1	102
5	1	0.6	8.6	120
5	1.5	0.7	10	166

Conductors

Nominal Cross Sectional Area (mm ²)	Maximum Diameter of Wires In Conductor (mm)	Maximum Resistance of Conductors at 20°C
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95

Electrical Characteristics

Nominal Cross Sectional Area (mm ²)	Current Carrying Capacity (Amps) Single Phase AC	Current Carrying Capacity (Amps) Three-Phase AC	Maximum Mass Supportable by Twin Flexible Cord
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5

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	46	40
1.5	32	27
2.5	19	16
4	12	10

De-Rating Factors

Air Temperature	De-rating Factor
35°C	0.91
40°C	0.82
45°C	0.71
50°C	0.58
55°C	0.41