# 318-Y / H05VV-F 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 table lamps and office equipment. Generally unsuitablefor outdoor use or industrial applications.

## CHARACTERISTICS

**Voltage Rating** Uo/U
300/500V

**Temperature Rating**
Flexed: +5˚C to +70˚C

**Minimum Bending Radius**
Flexed: 8 x overall diameter

## CONSTRUCTION

**Conductor**
Class 5 flexible copper conductor

**Insulation**
PVC (Polyvinyl Chloride)

**Sheath**
PVC (Polyvinyl Chloride)

## CABLE THIRD-PARTY ACCREDITATION

Cables are tested and accredited by Kenya Bureau of Standards (KEBS)

## STANDARDS

KS EN 50525-2-11, KS –IEC 60228

Flame Retardant according to IEC/EN 60332-1-2

ISO 9001 Quality Management
ISO 14001 Environmental Management
ISO 45001 Occupational Health and Safety Management

## Core Identification

2 core: Blue Brown
3 core: Green/Yellow Blue Brown
4 core: Green/Yellow Brown Black Blue
5 core: Green/Yellow Brown Grey Black Blue

**Sheath Colour**
White
Black

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## DIMENSIONS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA $mm^2$ | NOMINAL THICKNESS OF INSULATION mm | NOMINAL OVERALL DIAMETER mm | NOMINALWEIGHT kg/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 |

### COLOUR CODES

| | | |
|---|---|---|
| **COLOUR** | White | Black |
| **CODE** | WH | BK |

### CONDUCTORS

Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

| NOMINAL CROSSSECTIONAL AREA | MAXIMUM DIAMETER OF WIRES IN CONDUCTOR | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km |
|---|---|---|
| $mm^2$ | mm | Plain Wires |
| **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 |

The above table is in accordance with EN 60228

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## ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Mass Supportable

| NOMINAL CROSS SECTIONAL AREA $mm^2$ | CURRENT CARRYING CAPACITY Amps | | 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 | Three-Phase AC | |
| 0.75 | 6 | 6 | 3 |
| 1 | 10 | 10 | 5 |
| 1.5 | 16 | 16 | 5 |
| 2.5 | 25 | 20 | 5 |
| 4 | 32 | 25 | 5 |

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

## VOLTAGE DROP

| NOMINAL CROSS SECTIONAL AREA | DC OR SINGLE-PHASE AC | THREE-PHASE AC |
|---|---|---|
| $mm^2$ | mV/A/m | mV/A/m |
| 0.75 | 62 | 54 |
| 1 | 46 | 40 |
| 1.5 | 32 | 27 |
| 2.5 | 19 | 16 |
| 4 | 12 | 10 |

Conductor operating temperature: 60°C*
The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

## DE-RATING FACTORS

De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords

| AIR TEMPERATURE | 35ºC | 40ºC | 45ºC | 50ºC | 55ºC |
|---|---|---|---|---|---|
| DE-RATING FACTOR | 0.91 | 0.82 | 0.71 | 0.58 | 0.41 |

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.



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