

# 318-B LSZH / H05Z1Z1-F EN 50525-3-11 Flexible Cable



## APPLICATION

Used as an indoor general wiring cable primarily for installations in public areas. Examples include use on pendant lighting drops or as a general supply lead within hospital or airport projects. For installation where fire, smoke emission and toxic fumes create a potential risk to life and equipment.

## CHARACTERISTICS

**Voltage Rating (U<sub>0</sub>/U)**  
300/500V

**Temperature Rating**  
+5°C to +70°C

**Minimum Bending Radius**  
5 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 5 flexible copper conductor

**Insulation**  
LSZH (Low Smoke Zero Halogen) Type TI6

**Sheath**  
LSZH (Low Smoke Zero Halogen) Type TM7

## CABLE THIRD-PARTY ACCREDITATION

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

## STANDARDS

KS EN 50525-3-11 (HD21.14), EN 60228

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



## Core Identification

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

## Sheath Colour

- White
- Black



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### DIMENSIONS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA MM <sup>2</sup> | NOMINAL THICKNESS OF INSULATION MM | NOMINAL OVERALL DIAMETER MM | NOMINAL WEIGHT 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                           | 130                  |
| 2            | 4  | 0.8                                | 10.4                        | 180                  |
| 3            | 0.75   | 0.6                                | 6.7                         | 68                   |
| 3            | 1  | 0.6                                | 7                           | 78                   |
| 3            | 1.5  | 0.7                                | 8                           | 107                  |
| 3            | 2.5  | 0.8                                | 9.9                         | 163                  |
| 3            | 4  | 0.8                                | 11.1                        | 212                  |
| 4            | 0.75   | 0.6                                | 7.3                         | 83                   |
| 4            | 1  | 0.6                                | 7.9                         | 100                  |
| 4            | 1.5  | 0.7                                | 9                           | 134                  |
| 4            | 2.5  | 0.8                                | 10.8                        | 201                  |
| 4            | 4  | 0.8                                | 12.2                        | 290                  |
| 5            | 0.75   | 0.6                                | 8.1                         | 103                  |
| 5            | 1  | 0.6                                | 8.3                         | 130                  |
| 5            | 1.5  | 0.7                                | 10.4                        | 170                  |
| 5            | 2.5  | 0.8                                | 12.1                        | 255                  |
| 5            | 4  | 0.8                                | 15                          | 360                  |

### COLOUR CODES

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

### CONDUCTORS

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

| NOMINAL CROSSSECTIONAL AREA mm <sup>2</sup> | MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km |
|---|---|---|
|   |   | Plain Wires                                     |
| 0.75  | 0.6                                       | 6.3   |
| 1   | 0.6                                       | 6.6   |
| 1.5   | 0.7                                       | 7.4   |
| 2.5   | 0.8                                       | 9   |
| 4   | 0.8                                       | 10.4  |
| 0.75  | 0.6                                       | 8.1   |
| 1   | 0.6                                       | 8.3   |
| 1.5   | 0.7                                       | 10.4  |
| 2.5   | 0.8                                       | 12.1  |
| 4   | 0.8                                       | 15  |

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<br>mm <sup>2</sup> | CURRENT CARRYING CAPACITY<br>Amps |                | MAXIMUM MASS SUPPORTABLE BY TWIN FLEXIBLE CORD<br>(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 EN 60228

**VOLTAGE DROP**

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | DC OR SINGLE-PHASE AC<br>mV/A/m | THREE-PHASE AC<br>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 tabulated values above are for 60°C thermoplastic or thermosetting insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

90°C thermoplastic or thermosetting insulation: 1.09

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**

60°C Thermoplastic or Thermosetting Insulated Cords

| AMBIENT TEMPERATURE | 35°C | 40°C | 45°C | 50°C | 55°C |
|---------------------|------|------|------|------|------|
| 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.

All of the above information, including drawings, illustrations and graphic designs, reflects our present understanding and is to the best of our knowledge and belief correct reliable. Users, however, should independently evaluate the suitability of each product for the desired application. Under no circumstances does this constitute an assurance any particular quality or performance. Such an assurance is only provided in the context of our product specifications or explicit contractual arrangements. Our liability for products set forth our standard terms and conditions of sale



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