

Fumeguard Cable Range

318-B (H05Z1Z1-F)

Insulated & Sheathed Flexible Cables

(Complies with BS 50525-3-11)



Class 5 Flexible Copper / Low Smoke Zero Halogen Insulation / Low Smoke Zero Halogen Sheath

Application

Designed primarily for domestic and commercial premises as a general supply lead. Applications include pendant lighting drops and connecting domestic appliances to a fixed supply.

This is a zero halogen, low smoke and flame-retardant cable. It is suited to indoor public areas where reduction in the volume of smoke and acid gas emissions is essential.



Cable Description

Class 5 flexible copper conductor,
Low smoke zero halogen (LSZH) insulation,
Low smoke zero halogen (LSZH) outer sheath.

N.B. In the event of fire, the gases evolved from this cable are free from Halogen and the design is optimised to limit the quantity and cleanliness of the smoke evolved during this period. Although the acronym HFFR is applied to the sheath material, the terms LSOH, HFFR and HFFR are also applicable.

Insulation Colours

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 Colours

White / Black (Other Colours Available on Request)

Physical characteristics

| No of Cores | Conductor Class | Nominal Cross-Sectional Area (mm ²) | Nominal Insulation Thickness (mm) | Nominal Sheath Thickness (mm) | Nominal Overall Diameter (mm) | Maximum Conductor Resistance at 20°C (ohms/km) | Approx. Weight of Cable (kg/km) |
|-------------|-----------------|---|-----------------------------------|-------------------------------|-------------------------------|--|---------------------------------|
| 2 | 5 (24/0.20) | 0.75 | 0.60 | 0.80 | 6.50 | 26.00 | 50.00 |
| 2 | 5 (32/0.20) | 1.00 | 0.60 | 0.80 | 6.80 | 19.50 | 60.00 |
| 2 | 5 (30/0.25) | 1.50 | 0.70 | 0.80 | 7.80 | 13.30 | 80.00 |
| 2 | 5 (50/0.25) | 2.50 | 0.80 | 1.00 | 9.30 | 7.98 | 120.00 |
| 2 | 5 (56/0.30) | 4.00 | 0.80 | 1.10 | 10.50 | 4.95 | 160.00 |
| 3 | 5 (24/0.20) | 0.75 | 0.60 | 0.80 | 6.80 | 26.00 | 60.00 |
| 3 | 5 (32/0.20) | 1.00 | 0.60 | 0.80 | 7.10 | 19.50 | 70.00 |
| 3 | 5 (30/0.25) | 1.50 | 0.70 | 0.90 | 8.30 | 13.30 | 98.00 |
| 3 | 5 (50/0.25) | 2.50 | 0.80 | 1.10 | 10.50 | 7.98 | 150.00 |
| 3 | 5 (56/0.30) | 4.00 | 0.80 | 1.20 | 11.50 | 4.95 | 200.00 |
| 4 | 5 (24/0.20) | 0.75 | 0.60 | 0.80 | 7.60 | 26.00 | 72.00 |
| 4 | 5 (32/0.20) | 1.00 | 0.60 | 0.90 | 8.20 | 19.50 | 88.00 |
| 4 | 5 (30/0.25) | 1.50 | 0.70 | 1.00 | 9.60 | 13.30 | 120.00 |
| 4 | 5 (50/0.25) | 2.50 | 0.80 | 1.10 | 11.40 | 7.98 | 180.00 |
| 4 | 5 (56/0.30) | 4.00 | 0.80 | 1.20 | 12.50 | 4.95 | 265.00 |
| 5 | 5 (24/0.20) | 0.75 | 0.60 | 0.90 | 8.60 | 26.00 | 90.00 |

British Cables Company Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom

Tel: +44 (0) 161 741 2345 | Fax: +44 (0) 161 795 8393 | Web: www.britishcablescompany.com | Email: info@britishcables.com

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|---|-------------|------|------|------|-------|-------|--------|
| 5 | 5 (32/0.20) | 1.00 | 0.60 | 0.90 | 9.40 | 19.50 | 105.00 |
| 5 | 5 (30/0.25) | 1.50 | 0.70 | 1.10 | 10.60 | 13.30 | 150.00 |
| 5 | 5 (50/0.25) | 2.50 | 0.80 | 1.20 | 12.50 | 7.98 | 225.00 |
| 5 | 5 (56/0.30) | 4.00 | 0.80 | 1.40 | 15.00 | 4.95 | 330.00 |

Mechanical characteristics

| Characteristic | Unit | Value |
|-----------------------------|----------|-------|
| Operating Temperature Range | °C | 70 |
| Minimum Bend Radius | Diameter | 5D |

Electrical characteristics at 20°C

| Characteristic | Unit | Value |
|----------------------|------|---------|
| Voltage Rating Uo/U | V | 300/500 |
| Current Rating Table | - | 4F3A |

Fire Performance

| Test | Test Method | Value | Comment |
|----------------------------------|---------------------------|--|-----------|
| Fume Emission | XR-F | No halogen, nitrogen, phosphorous or Sulphur containing compounds (trace elements \leq 0.5% w/w) | Compliant |
| Single Cable Vertical Burn Test | BS EN 60332-1: 2004 | Onset of char (from top support): > 50mm Extent of char (from top support): < 540mm | Compliant |
| Bunched Cable Vertical Burn Test | BS EN 50399 | PHR / THR / FIGRA / SPR / TSP / d | Compliant |
| Acid Gas Emission | BS EN 50267-2-1: 1999 | Less than 5mg/g | Compliant |
| Smoke Emission | BS EN 61034-2: 2005 | Minimum light transmittance >60% | Compliant |
| CPR Euro Classification | BS EN 50575-201 4 AI-2016 | Dca | |