

LSF Wiring Cables



▶ APPLICATION

Industrial wiring installations where smoke and acid gas emission would pose a major hazard in the event of fire. These cables are intended for drawing into trunking and conduit and are suitable for use in electrical installations such as power, lighting, appliances, switchgear and controlgear, which are to be used in higher temperature zones.

▶ HARMONISED CODE

- 0.75mm² & 1.0mm² solid conductor wire H05Z-U
- 1.5mm² & 2.5mm² solid conductor wire H07Z-U
- 1.5mm² to 120mm² stranded conductor wire H07Z-R



▶ CONSTRUCTION

- Reference : **BSEN:50525-3-41/BS:7211**
- Conductor : **Solid or stranded plain copper class 1 or 2 & 5 to BS6360/BSEN:60228**
- Insulation : **Thermosetting, low smoke zero halogen**

▶ STANDARD COLOURS

- Colours : Black, Blue, Red, Yellow, Green/Yellow, Grey
- Other colours available on request.

▶ PACKAGING

- Sizes 0.75mm² to 35mm² in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden reels of 500m and 1000m
- Customised lengths available on request

▶ TECHNICAL DATA

- Max. Operating Temperature : 90°C
- Rated Voltage : 450/750V (300/500V for 0.75mm² & 1.0mm²)
- Standards : **BSEN:50525-3-41/BSEN:7211**

| Nominal Cross-Sectional Area (mm ²) | Conductor | | Insulation | | Approx. Overall Diameter (mm) | Approx. Nett Weight (kg/km) | Approx. Current Carrying Capacity (A) |
|---|-------------------|-------------------------|--------------------------------|------------------------------|-------------------------------|-----------------------------|---------------------------------------|
| | Number of Strands | Diameter of Strand (mm) | Max. Resistance at 20°C (Ω/km) | Thickness of Insulation (mm) | | | |
| 0.75 | 1 | 0.98 | 24.50 | 0.6 | 2.40 | 11 | 10 |
| 1.00 | 1 | 1.13 | 18.10 | 0.6 | 2.60 | 14 | 12 |
| 1.50 | 1 | 1.38 | 12.10 | 0.7 | 3.20 | 21 | 16 |
| 1.50 | 7 | 0.53 | 12.10 | 0.7 | 3.30 | 22 | 16 |
| 2.50 | 1 | 1.78 | 7.410 | 0.8 | 3.90 | 32 | 21 |
| 2.50 | 7 | 0.67 | 7.410 | 0.8 | 4.00 | 35 | 21 |
| 4.00 | 7 | 0.85 | 4.610 | 0.8 | 4.60 | 50 | 28 |
| 6.00 | 7 | 1.04 | 3.080 | 0.8 | 5.20 | 71 | 36 |
| 10.0 | 7 | 1.35 | 1.830 | 1.0 | 6.70 | 120 | 50 |
| 16.0 | 7 | 1.70 | 1.150 | 1.0 | 7.80 | 180 | 68 |
| 25.0 | 7 | 2.14 | 0.727 | 1.2 | 9.70 | 280 | 89 |
| 35.0 | 7 | 2.52 | 0.524 | 1.2 | 10.90 | 380 | 110 |
| 50.0 | 19 | 1.83 | 0.387 | 1.4 | 12.80 | 510 | 134 |
| 70.0 | 19 | 2.17 | 0.268 | 1.4 | 14.60 | 710 | 171 |
| 95.0 | 19 | 2.52 | 0.193 | 1.6 | 17.10 | 970 | 207 |
| 120.0 | 37 | 2.04 | 0.153 | 1.6 | 18.80 | 1200 | 239 |
| 150.0 | 37 | 2.25 | 0.124 | 1.8 | 20.90 | 1480 | 262 |
| 185.0 | 37 | 2.52 | 0.0991 | 2.0 | 23.30 | 1900 | 296 |
| 240.0 | 61 | 2.24 | 0.0754 | 2.0 | 26.60 | 2480 | 346 |
| 300.0 | 61 | 2.50 | 0.0601 | 2.2 | 29.60 | 3100 | 394 |
| 400.0 | 61 | 2.85 | 0.0470 | 2.6 | 33.20 | 3940 | 467 |
| 500.0 | 91 | 2.65 | 0.0366 | 2.8 | 36.90 | 5000 | 533 |
| 630.0 | 91 | 2.97 | 0.0283 | 2.8 | 41.10 | 6350 | 611 |