



FIRE RESISTANT POWER CABLE

BS 7846

63 orderable sizes

| | | |
|------------------------------------|----------------------------------|--|
| STANDARD BS 7846 | VOLTAGE CLASS 0.6/1 kV | CONDUCTOR Plain or tinned copper conductor |
| INSULATION / JACKET LSZH | | |

Construction

- 1 ■ Conductor (per core) – Copper conductor · 7 × Ø2.13 mm · IEC 60228 cl.2
- 2 ■ Core insulation – Mica fire barrier with XLPE insulation
- 3 ■ Filler – PP filler
- 4 ■ Bedding – PVC bedding
- 5 ■ Armour – Galvanised steel wire armour (SWA)
- 6 ■ Sheath – LSZH

Size selection — all available cross-sections

| Cable reference | Core layout | Conductor size | Conductor | Max DC resistance at 20 °C | OD guide |
|---|-------------|---------------------|------------------|----------------------------|----------|
| BS 7846 fire resistant power cable 1C Copper 16 mm ² LSZH | 1C | 16 mm ² | Copper conductor | 1.15 Ω/km | 26 mm |
| BS 7846 fire resistant power cable 1C Copper 25 mm ² LSZH | 1C | 25 mm ² | Copper conductor | 0.727 Ω/km | 28 mm |
| BS 7846 fire resistant power cable 1C Copper 50 mm ² LSZH | 1C | 50 mm ² | Copper conductor | 0.387 Ω/km | 33 mm |
| BS 7846 fire resistant power cable 1C Copper 70 mm ² LSZH | 1C | 70 mm ² | Copper conductor | 0.268 Ω/km | 36 mm |
| BS 7846 fire resistant power cable 1C Copper 95 mm ² LSZH | 1C | 95 mm ² | Copper conductor | 0.193 Ω/km | 39 mm |
| BS 7846 fire resistant power cable 1C Copper 150 mm ² LSZH | 1C | 150 mm ² | Copper conductor | 0.124 Ω/km | 44 mm |
| BS 7846 fire resistant power cable 1C Copper 240 mm ² LSZH | 1C | 240 mm ² | Copper conductor | 0.0754 Ω/km | 51 mm |

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| BS 7846 fire resistant power cable 1C Copper 400 mm ² LSZH | 1C | 400 mm ² | Copper conductor | 0.0470 Ω/km | 61 mm |
| BS 7846 fire resistant power cable 2C Copper 1.5 mm ² LSZH | 2C | 1.5 mm ² | Copper conductor | 12.1 Ω/km | 22 mm |
| BS 7846 fire resistant power cable 2C Copper 2.5 mm ² LSZH | 2C | 2.5 mm ² | Copper conductor | 7.41 Ω/km | 23 mm |
| BS 7846 fire resistant power cable 2C Copper 4 mm ² LSZH | 2C | 4 mm ² | Copper conductor | 4.61 Ω/km | 24 mm |
| BS 7846 fire resistant power cable 2C Copper 6 mm ² LSZH | 2C | 6 mm ² | Copper conductor | 3.08 Ω/km | 25 mm |
| BS 7846 fire resistant power cable 2C Copper 10 mm ² LSZH | 2C | 10 mm ² | Copper conductor | 1.83 Ω/km | 27 mm |
| BS 7846 fire resistant power cable 2C Copper 16 mm ² LSZH | 2C | 16 mm ² | Copper conductor | 1.15 Ω/km | 28 mm |
| BS 7846 fire resistant power cable 2C Copper 25 mm ² LSZH | 2C | 25 mm ² | Copper conductor | 0.727 Ω/km | 31 mm |
| BS 7846 fire resistant power cable 2C Copper 35 mm ² LSZH | 2C | 35 mm ² | Copper conductor | 0.524 Ω/km | 33 mm |
| BS 7846 fire resistant power cable 2C Copper 50 mm ² LSZH | 2C | 50 mm ² | Copper conductor | 0.387 Ω/km | 35 mm |
| BS 7846 fire resistant power cable 2C Copper 70 mm ² LSZH | 2C | 70 mm ² | Copper conductor | 0.268 Ω/km | 38 mm |
| BS 7846 fire resistant power cable 2C Copper 95 mm ² LSZH | 2C | 95 mm ² | Copper conductor | 0.193 Ω/km | 41 mm |
| BS 7846 fire resistant power cable 2C Copper 120 mm ² LSZH | 2C | 120 mm ² | Copper conductor | 0.153 Ω/km | 44 mm |
| BS 7846 fire resistant power cable 2C Copper 150 mm ² LSZH | 2C | 150 mm ² | Copper conductor | 0.124 Ω/km | 47 mm |
| BS 7846 fire resistant power cable 2C Copper 185 mm ² LSZH | 2C | 185 mm ² | Copper conductor | 0.0991 Ω/km | 50 mm |
| BS 7846 fire resistant power cable 2C Copper 240 mm ² LSZH | 2C | 240 mm ² | Copper conductor | 0.0754 Ω/km | 54 mm |
| BS 7846 fire resistant power cable 3C Copper 1.5 mm ² LSZH | 3C | 1.5 mm ² | Copper conductor | 12.1 Ω/km | 25 mm |
| BS 7846 fire resistant power cable 3C Copper 2.5 mm ² LSZH | 3C | 2.5 mm ² | Copper conductor | 7.41 Ω/km | 25 mm |
| BS 7846 fire resistant power cable 3C Copper 4 mm ² LSZH | 3C | 4 mm ² | Copper conductor | 4.61 Ω/km | 26 mm |
| BS 7846 fire resistant power cable 3C Copper 6 mm ² LSZH | 3C | 6 mm ² | Copper conductor | 3.08 Ω/km | 27 mm |
| BS 7846 fire resistant power cable 3C Copper 10 mm ² LSZH | 3C | 10 mm ² | Copper conductor | 1.83 Ω/km | 29 mm |

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| BS 7846 fire resistant power cable 3C Copper 25 mm ² LSZH | 3C | 25 mm ² | Copper conductor | 0.727 Ω/km | 33 mm |
| BS 7846 fire resistant power cable 3C Copper 35 mm ² LSZH | 3C | 35 mm ² | Copper conductor | 0.524 Ω/km | 35 mm |
| BS 7846 fire resistant power cable 3C Copper 50 mm ² LSZH | 3C | 50 mm ² | Copper conductor | 0.387 Ω/km | 37 mm |
| BS 7846 fire resistant power cable 3C Copper 70 mm ² LSZH | 3C | 70 mm ² | Copper conductor | 0.268 Ω/km | 40 mm |
| BS 7846 fire resistant power cable 3C Copper 95 mm ² LSZH | 3C | 95 mm ² | Copper conductor | 0.193 Ω/km | 43 mm |
| BS 7846 fire resistant power cable 3C Copper 120 mm ² LSZH | 3C | 120 mm ² | Copper conductor | 0.153 Ω/km | 46 mm |
| BS 7846 fire resistant power cable 3C Copper 150 mm ² LSZH | 3C | 150 mm ² | Copper conductor | 0.124 Ω/km | 49 mm |
| BS 7846 fire resistant power cable 3C Copper 185 mm ² LSZH | 3C | 185 mm ² | Copper conductor | 0.0991 Ω/km | 52 mm |
| BS 7846 fire resistant power cable 3C Copper 240 mm ² LSZH | 3C | 240 mm ² | Copper conductor | 0.0754 Ω/km | 56 mm |
| BS 7846 fire resistant power cable 4C Copper 1.5 mm ² LSZH | 4C | 1.5 mm ² | Copper conductor | 12.1 Ω/km | 27 mm |
| BS 7846 fire resistant power cable 4C Copper 2.5 mm ² LSZH | 4C | 2.5 mm ² | Copper conductor | 7.41 Ω/km | 28 mm |
| BS 7846 fire resistant power cable 4C Copper 4 mm ² LSZH | 4C | 4 mm ² | Copper conductor | 4.61 Ω/km | 29 mm |
| BS 7846 fire resistant power cable 4C Copper 6 mm ² LSZH | 4C | 6 mm ² | Copper conductor | 3.08 Ω/km | 30 mm |
| BS 7846 fire resistant power cable 4C Copper 10 mm ² LSZH | 4C | 10 mm ² | Copper conductor | 1.83 Ω/km | 31 mm |
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| BS 7846 fire resistant power cable 4C Copper 150 mm ² LSZH | 4C | 150 mm ² | Copper conductor | 0.124 Ω/km | 51 mm |
| BS 7846 fire resistant power cable 4C Copper 185 mm ² LSZH | 4C | 185 mm ² | Copper conductor | 0.0991 Ω/km | 54 mm |
| BS 7846 fire resistant power cable 4C Copper 240 mm ² LSZH | 4C | 240 mm ² | Copper conductor | 0.0754 Ω/km | 58 mm |
| BS 7846 fire resistant power cable 5C Copper 1.5 mm ² LSZH | 5C | 1.5 mm ² | Copper conductor | 12.1 Ω/km | 29 mm |
| BS 7846 fire resistant power cable 5C Copper 2.5 mm ² LSZH | 5C | 2.5 mm ² | Copper conductor | 7.41 Ω/km | 30 mm |
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| BS 7846 fire resistant power cable 5C Copper 50 mm ² LSZH | 5C | 50 mm ² | Copper conductor | 0.387 Ω/km | 42 mm |
| BS 7846 fire resistant power cable 5C Copper 70 mm ² LSZH | 5C | 70 mm ² | Copper conductor | 0.268 Ω/km | 45 mm |