

**TECHNICAL DATA SHEET**  
**MINERAL INSULATED CABLE (HEAVY DUTY)**  
**LSZH COVERED**

**Manufacturing Standard**

**BS EN 60702 Part 1**

**Fire Performance**

BS6387 C-W-Z – LPCB

BS EN50200 PH30, PH60, PH120

BS8434-2

BS8519 Power & Control CAT 1, 2 & 3

BS8491

**Additional Fire Performance**

BS EN50268 – IEC61034 - Smoke Emission

BS EN50265, 50266

BS EN / IEC 60332-1 Flame Propagation

BS EN / IEC60332-3 Categories A, B & C Flame Propagation



**Construction**

- Class 1 Plain Annealed Copper Conductor to BS EN60228
- Compressed Magnesium Oxide Powder Insulation
- Solid Copper Sheath
- Low Smoke Zero Halogen Sheathed

**Voltage Rating**                750 Volt

**Operating Temp**            -10°C to +250°C

**Bending Radius**            6 x Overall Diameter

**Sheath Colour**                Orange, Red or White

## MINERAL INSULATED CABLE (HEAVY DUTY) LSZH COVERED

### TECHNICAL DATA

| Cable Reference | No of Cores and CSA | Current Rating (Exposed) |                | Voltage Drop          |                | Max Conductor Resistance at 20°C | CSA of Copper Sheath | Nominal Overall Diameter | Nominal Weight |
|-----------------|---------------------|--------------------------|----------------|-----------------------|----------------|----------------------------------|----------------------|--------------------------|----------------|
|                 |                     | Single Phase ac or dc    | Three Phase ac | Single Phase ac or dc | Three Phase ac |                                  |                      |                          |                |
|                 | mm <sup>2</sup>     | Amps                     | Amps           | mV/A/m                | mV/A/m         | Ohm/Km                           | mm <sup>2</sup>      | mm                       | Kg/Km          |
| 1H 6.0          | 1 x 6               | 57                       | 52             | 7.00                  | 6.00           | 3.08                             | 8.00                 | 7.70                     | 213            |
| 1H 10           | 1 x 10              | 77                       | 70             | 4.20                  | 3.60           | 1.83                             | 9.00                 | 8.80                     | 273            |
| 1H 16           | 1 x 16              | 102                      | 92             | 2.60                  | 2.30           | 1.15                             | 12.00                | 9.80                     | 361            |
| 1H 25           | 1 x 25              | 133                      | 120            | 1.65                  | 1.45           | 0.727                            | 15.00                | 11.10                    | 506            |
| 1H 35           | 1 x 35              | 163                      | 147            | 1.20                  | 1.05           | 0.524                            | 18.00                | 12.20                    | 650            |
| 1H 50           | 1 x 50              | 202                      | 181            | 0.91                  | 0.79           | 0.387                            | 22.00                | 13.60                    | 842            |
| 1H 70           | 1 x 70              | 247                      | 221            | 0.64                  | 0.55           | 0.268                            | 27.00                | 15.20                    | 1147           |
| 1H 95           | 1 x 95              | 296                      | 264            | 0.49                  | 0.41           | 0.193                            | 32.00                | 17.40                    | 1520           |
| 1H 120          | 1 x 120             | 340                      | 303            | 0.41                  | 0.33           | 0.153                            | 37.00                | 18.80                    | 1870           |
| 1H 150          | 1 x 150             | 388                      | 346            | 0.34                  | 0.29           | 0.124                            | 44.00                | 20.40                    | 2230           |
| 1H 185          | 1 x 185             | 440                      | 392            | 0.29                  | 0.25           | 0.101                            | 54.00                | 23.20                    | 2575           |
| 1H 240          | 1 x 240             | 514                      | 457            | 0.25                  | 0.21           | 0.0775                           | 70.00                | 26.10                    | 3312           |

| Cable Reference | No of Cores and CSA | Current Rating (Exposed) |                | Voltage Drop          |                | Max Conductor Resistance at 20°C | CSA of Copper Sheath | Nominal Overall Diameter | Nominal Weight |
|-----------------|---------------------|--------------------------|----------------|-----------------------|----------------|----------------------------------|----------------------|--------------------------|----------------|
|                 |                     | Single Phase ac or dc    | Three Phase ac | Single Phase ac or dc | Three Phase ac |                                  |                      |                          |                |
|                 | mm <sup>2</sup>     | Amps                     | Amps           | mV/A/m                | mV/A/m         | Ohm/Km                           | mm <sup>2</sup>      | mm                       | Kg/Km          |
| 2H 1.5          | 2 x 1.5             | 25                       | -              | 28.00                 | -              | 12.1                             | 11.00                | 9.40                     | 259            |
| 2H 2.5          | 2 x 2.5             | 34                       | -              | 17.00                 | -              | 7.41                             | 13.00                | 10.20                    | 314            |
| 2H 4.0          | 2 x 4.0             | 45                       | -              | 10.00                 | -              | 4.61                             | 16.00                | 11.30                    | 398            |
| 2H 6.0          | 2 x 6.0             | 57                       | -              | 7.00                  | -              | 3.08                             | 18.00                | 12.40                    | 483            |
| 2H 10           | 2 x 10              | 77                       | -              | 4.20                  | -              | 1.83                             | 24.00                | 14.20                    | 697            |
| 2H 16           | 2 x 16              | 102                      | -              | 2.60                  | -              | 1.15                             | 30.00                | 16.20                    | 968            |
| 2H 25           | 2 x 25              | 133                      | -              | 1.65                  | -              | 0.727                            | 38.00                | 19.10                    | 1275           |
| 3H 1.5          | 3 x 1.5             | -                        | 21             | -                     | 24.00          | 12.1                             | 12.00                | 9.80                     | 290            |
| 3H 2.5          | 3 x 2.5             | -                        | 28             | -                     | 14.00          | 7.41                             | 14.00                | 10.80                    | 365            |
| 3H 4.0          | 3 x 4.0             | -                        | 37             | -                     | 9.10           | 4.61                             | 17.00                | 11.90                    | 461            |
| 3H 6.0          | 3 x 6.0             | -                        | 48             | -                     | 6.00           | 3.08                             | 20.00                | 13.00                    | 590            |
| 3H 10           | 3 x 10              | -                        | 65             | -                     | 3.60           | 1.83                             | 27.00                | 15.10                    | 853            |
| 3H 16           | 3 x 16              | -                        | 86             | -                     | 2.30           | 1.15                             | 34.00                | 17.10                    | 1080           |
| 3H 25           | 3 x 25              | -                        | 112            | -                     | 1.45           | 0.727                            | 42.00                | 20.20                    | 1548           |
| 4H 1.5          | 4 x 1.5             | -                        | 21             | -                     | 24.00          | 12.1                             | 14.00                | 10.60                    | 344            |
| 4H 2.5          | 4 x 2.5             | -                        | 28             | -                     | 14.00          | 7.41                             | 16.00                | 11.60                    | 430            |
| 4H 4.0          | 4 x 4.0             | -                        | 37             | -                     | 9.10           | 4.61                             | 20.00                | 12.90                    | 577            |
| 4H 6.0          | 4 x 6.0             | -                        | 47             | -                     | 6.00           | 3.08                             | 24.00                | 14.20                    | 718            |
| 4H 10           | 4 x 10              | -                        | 64             | -                     | 3.60           | 1.83                             | 30.00                | 16.30                    | 1050           |
| 4H 16           | 4 x 16              | -                        | 85             | -                     | 2.30           | 1.15                             | 39.00                | 19.30                    | 1390           |
| 4H 25           | 4 x 25              | -                        | 110            | -                     | 1.45           | 0.727                            | 49.00                | 22.30                    | 1943           |