

624B Twin & Earth LSZH Cable 300/500V BS7211

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|----------------------------------|--|
| Applications: | Domestic wiring and lighting circuits |
| Conductors: | Plain annealed copper |
| Insulation: | XLPE (cross linked polyethylene) |
| Sheath: | LSZH |
| Conductor Stranding: | Class 1 – Circular solid Class 2 – stranded circular or circular compacted |
| Operating Temperature: | Maximum 90°C, Minimum bending -15°C |
| Minimum bending radius: | Diameter up to 10mm – 3 x overall diameter Diameter 10mm to 25mm – 4 x overall diameter (Based upon the larger dimensions) |
| Sheath Colour: | White |
| Conductor identification: | Brown, Blue and Bare (earth) |
| Standards: | Low smoke and HLC maximum 0.5% in accordance with BSEN50267-1 Common test got cables under fire conditions. Tests on gases evolved during combustion of materials from cables. Apparatus. BSEN50267-2-1: Common test methods for cables under fire conditions. Tests on gases evolved during combustion of materials from cables, Procedures, determination of the amount of halogen acid has. BSEN50266-1: Common test methods for cables under fire conditions. Test for vertical flame spread of vertically mounted bunched wires or cables |



| Size sq.mm | Class of conductor | Diameter over conductor mm | RT of insulation mm | Diameter over core mm | Size ECC conductor sq.mm | Diameter over laid up cores mm | Nominal overall diameter mm | Weight kg/km |
|------------|--------------------|----------------------------|---------------------|-----------------------|--------------------------|--------------------------------|-----------------------------|--------------|
| 1.0 | 1 | 1.13 | 0.7 | 2.6 | 1.0 | 2.6 x 6.4 | 4.4 x 8.0 | 75 |
| 1.5 | 1 | 1.38 | 0.7 | 2.8 | 1.0 | 2.8 x 6.8 | 4.6 x 8.4 | 85 |
| 2.5 | 1 | 1.78 | 0.7 | 3.2 | 1.5 | 3.2 x 8.1 | 5.2 x 9.9 | 120 |
| 4 | 2 | 2.55 | 0.7 | 4.0 | 1.5 | 4.0 x 9.7 | 6.0 x 11.5 | 170 |
| 6 | 2 | 3.12 | 0.7 | 4.5 | 2.5 | 4.5 x 11.5 | 6.5 x 13.5 | 230 |
| 10 | 2 | - | 0.7 | - | - | - | 7.9 x 15.9 | 320 |
| 16 | 2 | - | 0.7 | - | - | - | 8.8 x 18.0 | 474 |

| Amount of cores | Size mm ² | Short circuit rating of conductor (1 sec) kA | DC or single phase AC clipped direct Amps | DC or single phase AC enclosed in conduit or trunking amps | Three phase AC clipped direct amps | Volt drop DC or single phase AC mV/A/m | Volt drop three phase AC mV/A/m |
|-----------------|----------------------|--|---|--|------------------------------------|--|---------------------------------|
| 2 | 1 / 1 | 0.14 | 19 | 17 | - | 46 | - |
| 2 | 1.5 / 1 | 0.22 | 24 | 22 | - | 31 | - |
| 2 | 2.5 / 1.5 | 0.36 | 33 | 30 | - | 19 | - |
| 2 | 4 / 1.5 | 0.57 | 45 | 40 | - | 12 | - |
| 2 | 6 / 2.5 | 0.85 | 58 | 51 | - | 7.9 | - |
| 2 | 10 / 4 | 1.43 | 80 | 69 | - | 4.7 | - |
| 2 | 16 / 6 | 2.28 | 107 | 91 | - | 2.9 | - |
| 3 | 1 / 1 | 0.14 | 19 | 17 | 17 | 46 | 40 |
| 3 | 1.5 / 1 | 0.22 | 24 | 22 | 22 | 31 | 27 |
| 3 | 2.5 / 1.5 | 0.36 | 33 | 30 | 30 | 19 | 16 |