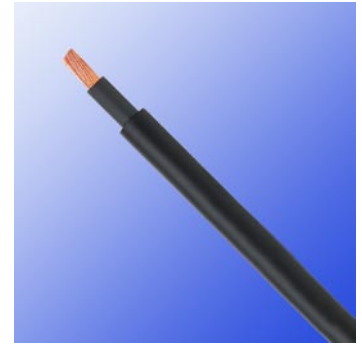




6181B to BS 7889

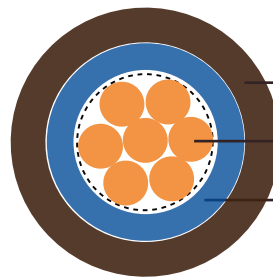
Application and Description

These cables are designed for fixed wiring purposes in domestic and industrial power/lighting applications. They can be installed in trunking or conduit, or may be surface mounted when used for earthing. They are suitable for use in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. When mechanical protection is required, they can be embedded in concrete.



Cable Construction

- Bare copper made of strands conductor
- Stranding to IEC 60228 Class 2
- XLPE insulation
- LSOH sheath



- LSOH sheath
- Bare copper conductor
- XLPE insulation

6181B

Core Identification

Black, Blue, Brown

Technical Characteristics

- Working voltage: 600/1000 volts
- Minimum bending radius: up to 25 mm² - 4xoverall diameter,
above 25 mm² - 6xoverall diameter
- Operating temperature: -15° C to +90° C
- Insulation resistance: 10 MΩxkm
- Halogen free acc. to EN 50267-2-1 / IEC 60754-1
- Smoke density acc. to EN 50268-2 / IEC 61034-2
- Corrosivity of gases acc. to EN 50267-2-2, IEC 60754-2
- Flame retardancy acc. to EN 50265-2-1, IEC 60332-1



Cable Parameter

| AWG (No of Strands/ Strand Diameter) | No. of Cores x Nominal Cross Sectional Area #x mm^2 | Nominal Thickness of Insulation mm | Nominal Thickness of Sheath mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|---|---|---|---|--------------------------------------|----------------------------|
| 16(1/16) | 1x1.5 | 0.7 | 1.4 | 6 | 50 |
| 14(1/14) | 1x2.5 | 0.7 | 1.4 | 6.5 | 70 |
| 12(7/20) | 1x4 | 0.7 | 1.4 | 7 | 80 |
| 10(7/18) | 1x6 | 0.7 | 1.4 | 7.5 | 110 |
| 8(7/16) | 1x10 | 0.7 | 1.4 | 8.5 | 150 |
| 6(7/14) | 1x16 | 0.7 | 1.4 | 9.5 | 215 |
| 4(7/12) | 1x25 | 0.9 | 1.4 | 11.5 | 315 |
| 2(7/10) | 1x35 | 0.9 | 1.4 | 12 | 415 |
| 1(19/13) | 1x50 | 1 | 1.4 | 13 | 555 |
| 2/0(19/11) | 1x70 | 1.1 | 1.4 | 15 | 760 |
| 3/0(19/10) | 1x95 | 1.1 | 1.5 | 17 | 1025 |
| 4/0(37/12) | 1x120 | 1.2 | 1.5 | 18.5 | 1270 |
| 300MCM(37/11) | 1x150 | 1.4 | 1.6 | 21.5 | 1575 |
| 350MCM(37/10) | 1x185 | 1.6 | 1.6 | 23 | 1955 |
| 500MCM(61/11) | 1x240 | 1.7 | 1.7 | 26 | 2470 |
| -(61/10) | 1x300 | 1.8 | 1.8 | 28 | 3155 |
| -(61/9) | 1x400 | 2 | 1.9 | 32 | 4049 |
| -(61/8) | 1x500 | 2.2 | 2 | 36 | 5100 |
| -(127/10) | 1x630 | 2.4 | 2.2 | 40 | 6410 |