



SM (CABLES)
L I M I T E D



Control Panel Wires CK 105 °C

Construction

- 1. Conductor : Flexible copper Class 5
- 2. Insulation : PVC Type TI 3

600/1000V PVC Insulated cables with multi-stranded conductor

Application

Specially designed for use in switchgear control, relay and instrumentation panels for purposes such as internal connectors

Technical Data

Flammability: meets BS EN 50265-2-1
Maximum Operating Temperature: 105°C
Short Circuit Temperature: 160°C

Standards

BS 6231:2006
BS EN 50265-2-1
(Previously BS4066-1)
Flame Retardant Cable

Marking

SM CABLES BS6231:2006 600/1000V Heat Resisting CK 105 DEG C MADE IN MALTA - 2.5mm²

| Nominal Cross Section mm ² | Overall Dimensions mm approx. | Net Weight kg/km approx. | Conductor DC Resistance at 20°C max. ohm/km | Current Carrying Capacity In |
|---------------------------------------|-------------------------------|--------------------------|---|------------------------------|
| | | | | Air (A) |
| 0.5 | 2.7 | 11.6 | 37.1 | 11 |
| 0.75 | 2.9 | 14.7 | 24.7 | 14 |
| 1 | 3.1 | 17.8 | 18.5 | 17 |
| 1.5 | 3.4 | 23.8 | 12.7 | 21 |
| 2.5 | 3.8 | 33.8 | 7.6 | 30 |
| 4 | 4.4 | 50.1 | 4.71 | 41 |
| 6 | 5.1 | 71.2 | 3.14 | 53 |
| 10 | 6.8 | 123.1 | 1.82 | 75 |
| 16 | 9.2 | 209 | 1.16 | 100 |
| 25 | 10.6 | 296 | 0.743 | 136 |
| 35 | 12.1 | 400 | 0.527 | 167 |
| 50 | 14.7 | 582 | 0.36 | 204 |
| 70 | 16.8 | 796 | 0.259 | 259 |
| 95 | 18.9 | 1025 | 0.196 | 321 |
| 120 | 20.4 | 1282 | 0.153 | 374 |

These types of cable wiring are specifically suitable for low-voltage switchgear and controlgears. These apparatus would require special type of cable whose conductor temperature does not exceed 105 °C. Adjacent to high temperature areas, these cables would be suitable to 105 °C for 15000 hours operation, provided the cable is not subjected to mechanical stresses or flexing.

