

Low Voltage 4 Core XLPE Bells Cable

1kV Unarmoured

Description: 4 Core Cu XLPE FRPVC, 1000 V
4 Core Cu XLPE LHFRPVC, 1000 V

F2CC 4nnn ZZ 001 0K0S (Red Stripe)
F2CC 4nnn ZZ 002 0K0S (Blue Stripe)

Specification: SANS 1507

Last updated: January 2026

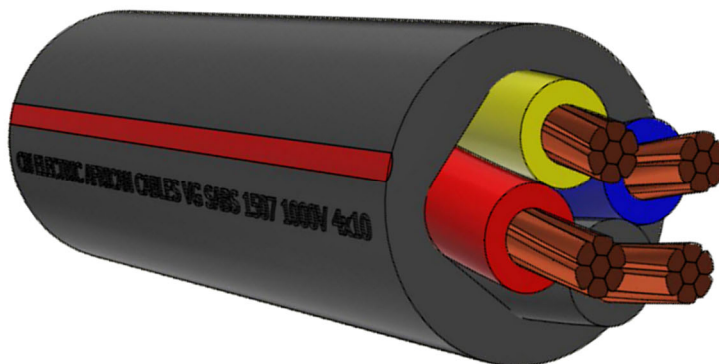
| PHYSICAL | ... naaa ... | 4915 | 4925 | 4004 | 4006 | 4010 | 4016 [#] |
|---------------------------|---------------------|--------|--------|--------|--------|-------|-------------------|
| Conductor size | mm ² nom | 1,5 | 2,5 | 4 | 6 | 10 | 16 |
| Conductor diameter | mm app | 1,6 | 2,0 | 2,6 | 3,1 | 3,9 | 4,5 |
| Insulation diameter | mm app | 3,0 | 3,4 | 4,0 | 4,5 | 5,3 | 5,9 |
| Layup diameter | mm app | 7,3 | 8,3 | 9,6 | 10,9 | 12,9 | 13,6 |
| Armour diameter | mm app | - | - | - | - | - | - |
| Cable diameter | mm app | 10,7 | 11,7 | 13,1 | 14,8 | 16,8 | 17,5 |
| Length of cable on a drum | m | 500 | 500 | 500 | 500 | 500 | 500 |
| Cable mass (approximate) | kg/m app | 0,2 | 0,2 | 0,3 | 0,4 | 0,6 | 0,8 |
| Gross mass on drum | kg app | 105 | 130 | 168 | 221 | 319 | 429 |
| Bending radius | mm min | 86 | 94 | 104 | 118 | 134 | 140 |
| ELECTRICAL | | | | | | | |
| DC Resistance @ 20 °C | Ω/km | 12,100 | 7,410 | 4,610 | 3,080 | 1,830 | 1,150 |
| AC Resistance @ 90 °C | Ω/km | 15,429 | 9,449 | 5,878 | 3,927 | 2,334 | 1,467 |
| Reactance X+ | Ω/km | 0,069 | 0,065 | 0,065 | 0,065 | 0,065 | 0,057 |
| Impedance Z+ | Ω/km | 15,429 | 9,449 | 5,879 | 3,928 | 2,334 | 1,468 |
| Capacitance C+ | µF/km | 0,098 | 0,108 | 0,118 | 0,127 | 0,139 | 0,161 |
| Resistance Ro | Ω/km | 61,715 | 37,794 | 23,513 | 15,709 | 9,334 | 5,866 |
| Reactance Xo | Ω/km | N/A | N/A | N/A | N/A | N/A | N/A |
| CURRENT RATINGS | | | | | | | |
| Ground | Amps | 30 | 39 | 51 | 64 | 85 | 113 |
| Ducts in ground | Amps | 24 | 31 | 41 | 51 | 68 | 89 |
| Air in Shade | Amps | 24 | 32 | 43 | 55 | 75 | 101 |
| Air in sunlight | Amps | 22 | 29 | 38 | 49 | 66 | 89 |
| SHORT CIRCUIT RATING | | | | | | | |
| Symmetrical (250 °C) | kA (1 sec) | 0,2 | 0,4 | 0,6 | 0,9 | 1,4 | 2,3 |
| Earth fault (200 °C) | kA (1 sec) | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 | 0,0 |
| Three Phase Volt drop | mV/A/m | 26,7 | 16,4 | 10,2 | 6,8 | 4,0 | 2,5 |

* In practice the earth fault rating must be limited to symmetrical fault rating.

Shaped Conductors

The current ratings above are based on standard laying conditions for a single circuit in isolation as follows:

- Conductor temperature = 90 °C
- Soil thermal resistivity = 1,2 K·m/W
- Soil temperature = 25 °C
- Air temperature = 30 °C
- Depth of burial = 500 mm
- 5% tolerance on dimensions



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