

Low Voltage 3 Core PVC Cables Not armoured

Cable Code F4CC 3nnn ZZ 001 0K0S

Description 3 Core Cu PVC PVC PVC, 1000 V

Specification SANS 1507

Last updated: May 2025

| PHYSICAL | | ... naaa ... | 3915 | 3925 | 3004 | 3006 | 3010 | 3016* |
|---------------------------|---------------------|--------------|--------|-------|--------|--------|-------|-------|
| Conductor size | mm ² nom | | 1.5 | 2.5 | 4 | 6 | 10 | 16* |
| Conductor diameter | mm app | | 1.6 | 2.1 | 2.6 | 3.1 | 3.9 | 3.9 |
| Insulation diameter | mm app | | 3.2 | 3.7 | 4.6 | 5.2 | 6.0 | 6.0 |
| Bedding diameter | mm app | | - | - | - | - | - | - |
| Armour diameter | mm app | | 7.0 | 8.0 | 10.0 | 11.3 | 12.9 | 12.9 |
| Cable diameter | mm app | | 10.4 | 11.4 | 13.9 | 15.1 | 16.8 | 16.8 |
| 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 | 0.5 | 0.7 |
| Gross mass on drum | kg app | | 97 | 127 | 180 | 221 | 303 | 406 |
| Bending radius | mm min | | 83 | 92 | 111 | 121 | 134 | 134 |
| ELECTRICAL | | | | | | | | |
| DC Resistance @ 20 °C | Ω/km | | 12.100 | 7.410 | 4.610 | 3.080 | 1.830 | 1.150 |
| AC Resistance @ 70 °C | Ω/km | | 14.478 | 8.866 | 5.516 | 3.685 | 2.190 | 1.376 |
| Reactance X+ | Ω/km | | 0.069 | 0.065 | 0.065 | 0.065 | 0.065 | 0.048 |
| Impedance Z+ | Ω/km | | 14.478 | 8.866 | 5.516 | 3.686 | 2.191 | 1.377 |
| Capacitance C+ | µF/km | | 0.505 | 0.568 | 0.567 | 0.621 | 0.686 | 0.636 |
| Resistance Ro | Ω/km | | 57.91 | 35.46 | 22.064 | 14.741 | 8.759 | 5.504 |
| Reactance Xo | Ω/km | | N/A | N/A | N/A | N/A | N/A | N/A |
| CURRENT RATINGS | | | | | | | | |
| Ground | Amps | | 25 | 33 | 42 | 53 | 71 | 93 |
| Ducts in ground | Amps | | 20 | 26 | 34 | 42 | 56 | 73 |
| Air in Shade | Amps | | 19 | 26 | 34 | 44 | 59 | 78 |
| Air in sunlight | Amps | | 16 | 21 | 28 | 35 | 47 | 62 |
| SHORT CIRCUIT RATING | | | | | | | | |
| Symmetrical (160 °C) | kA (1 sec) | | 0.2 | 0.3 | 0.5 | 0.7 | 1.2 | 1.8 |
| Earth fault (160 °C) | kA (1 sec) | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

The ratings above are based on standard laying conditions for a single circuit in isolation, with the following parameters:

Conductor temperature = 70 °C

Soil thermal resistivity = 1.2 Km/W

Soil temperature = 25 °C

Air temperature = 30 °C

Depth of burial = 500 mm

Single circuit in isolation

5% tolerance on dimensions

