

Medium Voltage Paper Insulated Lead Alloy Covered Cables (PILAC)

Copper 3 Core
6350/11000V
Table 25
SANS 97

PILAC F1FC... Primary group code
FRPVC SWA FRPVC (red stripe) ...45 111 Table + Finish code
LHPVC SWA LHPVC (blue stripe) ...45 212
ZEROTOX SWA ZEROTOX (white stripe) ...45 313

| Size code | ...naaa... | 3070 | 3095 | 3150 | 3185 |
|---------------------------------|---------------------|-------|-------|-------|--------|
| Conductor size | mm ² nom | 70 | 95 | 150 | 185 |
| Conductor depth | mm app. | 8,3 | 9,8 | 12,2 | 13,7 |
| Insulated depth | mm app. | 15,8 | 17,3 | 19,7 | 21,2 |
| Diameter over lead sheath | mm app. | 40,5 | 44,0 | 49,0 | 52,5 |
| Bedding diameter | mm app. | 44,0 | 47,5 | 53,5 | 56,5 |
| Size of armour wires | mm | 2,50 | 3,15 | 3,15 | 3,15 |
| Overall diameter | mm app. | 54,0 | 59,5 | 66,0 | 69,5 |
| Normal drum length | m | 300 | 300 | 300 | 300 |
| Cable mass | kg/m app. | 8,8 | 11,0 | 13,8 | 15,8 |
| Gross mass (drum length) | kg app. | 3050 | 3700 | 4550 | 5250 |
| Bending radius | mm min. | 648 | 714 | 792 | 834 |
| Current rating | | | | | |
| In ground | Amps | 190 | 230 | 290 | 330 |
| In ducts | Amps | 161 | 195 | 250 | 280 |
| In air | Amps | 200 | 245 | 320 | 365 |
| Positive sequence | | | | | |
| Resistance dc @ 20°C | Ω/km max | 0,268 | 0,193 | 0,124 | 0,0991 |
| ac @ 70°C | Ω/km | 0,321 | 0,232 | 0,150 | 0,1201 |
| Reactance | Ω/km | 0,088 | 0,082 | 0,077 | 0,074 |
| Impedance | Ω/km | 0,333 | 0,246 | 0,168 | 0,141 |
| Zero sequence | | | | | |
| Resistance | Ω/km | 1,370 | 1,041 | 0,861 | 0,778 |
| Reactance | Ω/km | 0,128 | 0,122 | 0,114 | 0,110 |
| Impedance | Ω/km | 1,376 | 1,048 | 0,869 | 0,786 |
| Short circuit ratings | | | | | |
| Symmetrical | kA (1sec) | 9,9 | 13,8 | 21,5 | 26,9 |
| Earth fault (Symmetrical limit) | kA (1sec) | 19,5 | 25,5 | 28,9 | 31,1 |

* Circular Conductor

When ordering please quote: primary + size + table + finish code

e.g. F1FC 3120 25 111

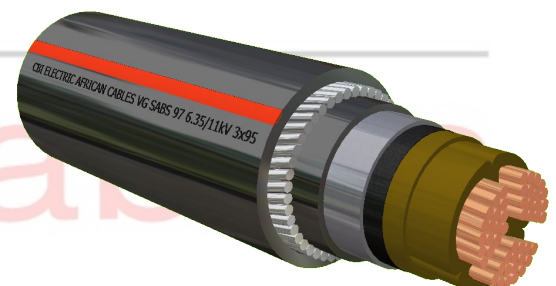
Soil thermal resistance = 1,2Km/W

Soil temperature = 25°C

Depth of burial = 800mm

Air temperature = 30°C

+5% tolerance on dimensions



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ISO 9001 | ISO 14001 | ISO 45001