

Aluminium 3 Core
6350/11000V
Table 17
SANS 97

PILC/PILAC
FRPVC DTA FRPVC (red stripe)
LHPVC DTA LHPVC (blue stripe)

FIFA... Primary group code
...17191 Table + Finish code
...17292

| Size code | ...naaa... | 3025 | 3035 | 3050 | 3070 | 3095 | 3120 | 3150 | 3185 | 3240 | 3300 |
|---------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Conductor size | mm ² nom | 25* | 35* | 50* | 70 | 95 | 120 | 150 | 185 | 240 | 300 |
| Conductor depth | mm app. | 5.9 | 7.0 | 8.3 | 8.3 | 9.8 | 11.0 | 12.2 | 13.7 | 15.7 | 17.6 |
| Insulated depth | mm app. | 12.2 | 13.2 | 14.6 | 14.6 | 16.0 | 17.2 | 18.4 | 19.9 | 21.9 | 23.9 |
| Diameter over lead sheath | mm app. | 32.0 | 34.0 | 37.0 | 36.5 | 40.0 | 42.5 | 45.5 | 49.0 | 53.0 | 57.5 |
| Bedding diameter | mm app. | 34.3 | 36.6 | 40.0 | 39.5 | 43.0 | 46.0 | 49.0 | 52.5 | 56.5 | 61.5 |
| Thickness of DSTA | mm | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Overall diameter | mm app. | 42.5 | 45.0 | 48.5 | 48.5 | 52.0 | 55.0 | 58.5 | 62.0 | 66.5 | 72.0 |
| Normal drum length | m | 500 | 500 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| Cable mass | kg/m app. | 4.2 | 4.6 | 5.2 | 5.4 | 6.3 | 7.1 | 8.0 | 9.1 | 10.3 | 11.8 |
| Gross mass (drum length) | kg app. | 2320 | 2475 | 1720 | 1780 | 2075 | 2530 | 2800 | 3300 | 3435 | 3970 |
| Bending radius | mm min. | 510 | 540 | 582 | 582 | 624 | 660 | 702 | 744 | 798 | 864 |
| Current rating | | | | | | | | | | | |
| In ground | Amps | 83 | 100 | 120 | 150 | 180 | 200 | 230 | 260 | 300 | 340 |
| In ducts | Amps | 70 | 84 | 100 | 125 | 150 | 170 | 190 | 220 | 255 | 285 |
| In air | Amps | 83 | 100 | 120 | 155 | 190 | 215 | 245 | 280 | 335 | 385 |
| Positive sequence | | | | | | | | | | | |
| Resistance dc @ 20°C | Ω/km max | 1.200 | 0.868 | 0.641 | 0.443 | 0.320 | 0.253 | 0.206 | 0.164 | 0.125 | 0.100 |
| ac @ 70°C | Ω/km max | 1.442 | 1.043 | 0.770 | 0.533 | 0.385 | 0.305 | 0.248 | 0.198 | 0.152 | 0.122 |
| Reactance | Ω/km | 0.111 | 0.106 | 0.101 | 0.082 | 0.077 | 0.075 | 0.073 | 0.070 | 0.068 | 0.066 |
| Impedance | Ω/km | 1.446 | 1.048 | 0.777 | 0.539 | 0.393 | 0.314 | 0.259 | 0.210 | 0.166 | 0.138 |
| Zero sequence | | | | | | | | | | | |
| Resistance | Ω/km | 5.968 | 5.243 | 4.621 | 4.215 | 3.560 | 3.106 | 2.737 | 2.394 | 2.164 | 1.889 |
| Reactance | Ω/km | 0.128 | 0.121 | 0.115 | 0.117 | 0.112 | 0.108 | 0.105 | 0.102 | 0.098 | 0.094 |
| Impedance | Ω/km | 5.969 | 5.244 | 4.622 | 4.217 | 3.562 | 3.108 | 2.739 | 2.396 | 2.166 | 1.891 |
| Short circuit ratings | | | | | | | | | | | |
| Symmetrical | kA (1sec) | 2.3 | 3.2 | 4.4 | 6.4 | 8.8 | 11.1 | 13.7 | 17.2 | 22.5 | 28.2 |
| Earth fault (Symmetrical limit) | kA (1sec) | 3.8 | 4.1 | 4.5 | 4.7 | 5.5 | 6.2 | 7.0 | 7.9 | 8.6 | 9.8 |

Last updated May 2006

* Circular Conductor

When ordering please quote: primary + size + table + finish code
e.g. FIFA 3120 17 191



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