

**CABLE STRUCTURE**

Conductor : Solid and stranded annealed copper wire
: Sizes 1.5 mm² up to 400 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

Testing voltage : 2,500 Volts

Reference standard : TIS 11 Part 3-2553, Table 1

APPLICATION

Building wiring for installation on insulator or in raceway dry location.

| Nominal cross sectional area (mm ²) | Conductor type | Insulation thickness nominal (mm) | Overall diameter | | Conductor resistance at 20°C maximum (Ω/km) | Insulation resistance at 70°C minimum (MΩ·km) | Continuous current rating in free air maximum (40°C)  (A) | Cable weight approx. (kg/km) | Standard Length (m) |
|--|----------------|--------------------------------------|------------------|-----------------|--|--|---|---------------------------------|------------------------|
| | | | Minimum (mm) | Maximum (mm) | | | | | |
| 1.5 | Solid | 0.7 | 2.6 | 3.2 | 12.1 | 0.011 | 21 | 21 | 100/C |
| 1.5 | Stranded | 0.7 | 2.7 | 3.3 | 12.1 | 0.010 | 21 | 22 | 100/C |
| 2.5 | Solid | 0.8 | 3.2 | 3.9 | 7.41 | 0.010 | 28 | 32 | 100/C |
| 2.5 | Stranded | 0.8 | 3.3 | 4.0 | 7.41 | 0.009 | 28 | 35 | 100/C |
| 4 | Solid | 0.8 | 3.6 | 4.4 | 4.61 | 0.0085 | 37 | 47 | 100/C |
| 4 | Stranded | 0.8 | 3.8 | 4.6 | 4.61 | 0.0077 | 37 | 50 | 100/C |
| 6 | Solid | 0.8 | 4.1 | 5.0 | 3.08 | 0.0070 | 49 | 65 | 100/C |
| 6 | Stranded | 0.8 | 4.3 | 5.2 | 3.08 | 0.0065 | 49 | 70 | 100/C |
| 10 | Solid | 1.0 | 5.3 | 6.4 | 1.83 | 0.0070 | 68 | 110 | 100/C |
| 10 | Stranded | 1.0 | 5.6 | 6.7 | 1.83 | 0.0065 | 68 | 120 | 100/C |
| 16 | Stranded | 1.0 | 6.4 | 7.8 | 1.15 | 0.0050 | 91 | 180 | 100/C |
| 25 | Stranded | 1.2 | 8.1 | 9.7 | 0.727 | 0.0050 | 122 | 280 | 100/C |
| 35 | Stranded | 1.2 | 9.0 | 10.9 | 0.524 | 0.0043 | 151 | 370 | 100/C |
| 50 | Stranded | 1.4 | 10.6 | 12.8 | 0.387 | 0.0043 | 184 | 500 | 500/D |
| 70 | Stranded | 1.4 | 12.1 | 14.6 | 0.268 | 0.0035 | 234 | 700 | 500/D |
| 95 | Stranded | 1.6 | 14.1 | 17.1 | 0.193 | 0.0035 | 292 | 1,000 | 500/D |
| 120 | Stranded | 1.6 | 15.6 | 18.8 | 0.153 | 0.0032 | 341 | 1,200 | 500/D |
| 150 | Stranded | 1.8 | 17.3 | 20.9 | 0.124 | 0.0032 | 391 | 1,500 | 500/D |
| 185 | Stranded | 2.0 | 19.3 | 23.3 | 0.0991 | 0.0032 | 454 | 1,900 | 500/D |
| 240 | Stranded | 2.2 | 22.0 | 26.6 | 0.0754 | 0.0032 | 543 | 2,500 | 500/D |
| 300 | Stranded | 2.4 | 24.5 | 29.6 | 0.0601 | 0.0030 | 628 | 3,100 | 500/D |
| 400 | Stranded | 2.6 | 27.5 | 33.2 | 0.0470 | 0.0028 | 736 | 3,900 | 500/D |

C : Packing in Coil
D : Packing in Drum