

■ 構造表 / Construction table

| 導体 / Conductor | | 絶縁 / Insulation | | 在庫 / Stocks | | シールド無し / Non-shield | | シールド付き / Shield | | 電気特性 / Electrical characteristics | | |
|---------------------------------------|---|----------------------------------|----------------------------|---------------------|-----------------|--|---------------------------------|--|---------------------------------|-----------------------------------|--|---|
| 公称断面積 Nominal cross sectional area | 外径 (約mm) Diameter (Approx.mm) 構成 (Construction) | 外径 (約mm) Diameter (Approx.mm) | 心数 Number of conductors | シールド無 Non-shield | シールド付 Shield | シース外径 (約mm) Sheath diameter (Approx.mm) | 概算重量 Approx.weight (kg / km) | シース外径 (約mm) Sheath diameter (Approx.mm) | 概算重量 Approx.weight (kg / km) | 許容電流 Allowable ampacity (A) | 導体抵抗 Conductor resistance 20°C (Ω / km) | 絶縁抵抗 Insulation resistance 20°C (M Ω km) |
| 0.5mm ² (20AWG) | 1.1 (6/18/0.08) | 2.35 | 2 | ○ | | 7.2 | 55 | 7.7 | 70 | 6 | 37.8 以下 (Max 37.8) | 5 以上 (Min 5) |
| | | | 3 | ○ | | 7.3 | 65 | 7.8 | 80 | 6 | | |
| | | | 4 | ○ | | 8.2 | 80 | 8.7 | 100 | 6 | | |
| | | | 5 | | | 9.0 | 95 | 9.5 | 110 | 5 | | |
| | | | 6 | ○ | | 9.5 | 110 | 10.0 | 130 | 5 | | |
| | | | 7 | | | 10.5 | 125 | 11.0 | 145 | 5 | | |
| | | | 8 | ○ | | 11.5 | 150 | 12.0 | 170 | 4 | | |
| | | | 10 | ○ | | 12.0 | 165 | 12.5 | 190 | 4 | | |
| | | | 12 | ○ | | 12.0 | 190 | 12.5 | 215 | 4 | | |
| | | | 14 | | | 13.0 | 205 | 13.5 | 240 | 4 | | |
| | | | 16 | ○ | | 14.0 | 245 | 14.5 | 275 | 3 | | |
| | | | 20 | ○ | | 16.0 | 320 | 16.5 | 355 | 3 | | |
| | | | 24 | | | 17.5 | 370 | 18.0 | 410 | 3 | | |
| 30 | | | 18.5 | 425 | 19.0 | 470 | 3 | | | | | |
| 0.75mm ² (18AWG) | 1.5 (6/28/0.08) | 2.7 | 2 | ○ | | 7.8 | 70 | 8.3 | 85 | 8 | 25.1 以下 (Max 25.1) | 5 以上 (Min 5) |
| | | | 3 | ○ | | 8.1 | 85 | 8.6 | 100 | 8 | | |
| | | | 4 | ○ | | 9.0 | 100 | 9.5 | 120 | 8 | | |
| | | | 5 | | | 10.0 | 120 | 10.5 | 140 | 7 | | |
| | | | 6 | ○ | | 10.5 | 145 | 11.0 | 165 | 7 | | |
| | | | 7 | | | 11.5 | 165 | 12.0 | 190 | 6 | | |
| | | | 8 | ○ | | 12.0 | 185 | 12.5 | 210 | 6 | | |
| | | | 10 | ○ | | 13.0 | 215 | 13.5 | 250 | 6 | | |
| | | | 12 | ○ | | 14.0 | 250 | 14.5 | 280 | 5 | | |
| | | | 14 | | | 14.5 | 285 | 16.0 | 340 | 5 | | |
| | | | 16 | ○ | | 16.0 | 345 | 16.5 | 380 | 5 | | |
| | | | 20 | ○ | | 17.5 | 420 | 18.0 | 460 | 4 | | |
| | | | 24 | | | 19.5 | 500 | 20.0 | 540 | 4 | | |
| 30 | | | 21.0 | 575 | 23.0 | 710 | 4 | | | | | |
| 1.25mm ² (16AWG) | 1.9 (6/47/0.08) | 3.1 | 2 | ○ | | 8.5 | 90 | 9.0 | 105 | 14 | 15.1 以下 (Max 15.1) | 5 以上 (Min 5) |
| | | | 3 | ○ | | 9.0 | 110 | 9.5 | 130 | 14 | | |
| | | | 4 | ○ | | 9.8 | 135 | 10.5 | 160 | 14 | | |
| | | | 5 | | | 11.0 | 165 | 11.5 | 190 | 11 | | |
| | | | 6 | ○ | | 12.0 | 195 | 12.5 | 220 | 10 | | |
| | | | 7 | | | 13.0 | 225 | 13.5 | 250 | 9 | | |
| | | | 8 | ○ | | 14.0 | 255 | 14.5 | 285 | 9 | | |
| | | | 10 | ○ | | 15.0 | 305 | 16.0 | 360 | 8 | | |
| | | | 12 | ○ | | 16.5 | 380 | 17.0 | 415 | 8 | | |
| | | | 14 | | | 17.0 | 425 | 17.5 | 460 | 7 | | |
| | | | 16 | ○ | | 18.0 | 475 | 18.5 | 520 | 7 | | |
| | | | 20 | | | 20.0 | 585 | 20.5 | 630 | 6 | | |
| | | | 24 | | | 23.5 | 775 | 24.0 | 830 | 6 | | |
| 30 | | | 25.0 | 900 | 25.5 | 960 | 5 | | | | | |
| 2mm ² (14AWG) | 2.2 (6/71/0.08) | 3.4 | 2 | ○ | | 9.1 | 110 | 9.6 | 125 | 20 | 9.79 以下 (Max 9.79) | 5 以上 (Min 5) |
| | | | 3 | ○ | | 9.6 | 140 | 10.0 | 160 | 20 | | |
| | | | 4 | ○ | | 10.5 | 175 | 11.0 | 195 | 20 | | |
| | | | 5 | | | 12.0 | 210 | 12.5 | 235 | 14 | | |
| | | | 6 | ○ | | 12.5 | 250 | 13.0 | 275 | 13 | | |
| | | | 7 | | | 14.0 | 295 | 14.5 | 325 | 12 | | |
| | | | 8 | ○ | | 15.0 | 335 | 16.0 | 390 | 11 | | |
| | | | 10 | ○ | | 17.0 | 420 | 17.5 | 455 | 11 | | |
| | | | 12 | ○ | | 17.5 | 480 | 18.0 | 520 | 10 | | |
| | | | 14 | | | 18.5 | 550 | 19.0 | 590 | 9 | | |
| | | | 16 | | | 19.5 | 620 | 20.0 | 670 | 9 | | |
| | | | 20 | | | 23.5 | 845 | 24.0 | 890 | 8 | | |
| | | | 24 | | | 25.5 | 1000 | 26.0 | 1060 | 7 | | |
| 30 | | | 27.0 | 1170 | 27.0 | 1230 | 7 | | | | | |

○は在庫品です。/ ○ : Stocks

■ 許容電流について / Allowable ampacity

- 許容電流値は、周囲温度 30°C、空中一条敷設時の計算値を示し、保証値ではありません。
- Allowable ampacity (A) for cable is based on calculation under aerial one-cable and temperature at 30°C, not representing a guaranteed value.
- 周囲温度 30°C 以上の場合には、下表の電流減少係数を許容電流値に乗じて下さい。
- Allowable ampacity cable at ambient temperature above 30°C is to be determined by multiplying the current value by the appropriate current reduction factor in the following table1.
- 許容電流の値は、JCS0168 により算出した値であって、保証値ではありません。
- The allowable ampacity for cable are the calculated by JCS0168, but not guaranteed.
- JCS0168…日本電線工業会規格 “33kV 以下電力ケーブルの許容電流計算”
- “Calculation of the current rating of power cables for rated voltage up to and including 33kV”

■ 表 電流減少係数 / Table1 Current reduction factors

| 周囲温度 / Ambient temperature (°C) | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 |
|------------------------------------|------|------|------|------|------|------|------|------|------|
| 電流減少係数 / Current reduction factors | 1.00 | 0.94 | 0.88 | 0.82 | 0.75 | 0.67 | 0.58 | 0.47 | 0.33 |

VCTE 43Z
VCTF 43ZSB

<PS>E

UL AWM

NFPA70
NFPA79

cUL/GSA

CE

CCC

TR-CU