

TEW/MTW/AWM Single Conductor 105C, 600V

Applications: TEW - For internal wiring of electrical equipment, for leads of transformers, motors, etc., and for luminous-tube signs and ignition systems. For use in raceways for Class 1 circuits. MTW - For use as Machine-Tool Wires. AWM - For use as factory installed internal wiring of appliances and other equipment.

Conductors: 22 AWG to 4/0 AWG bare or tinned copper.

Insulation: Polyvinyl chloride (PVC)

Voltage Rating: 600V

Temperature Rating: -30°C* to 105°C Dry, 60°C when exposed to water or oil.

Flame Rating: FT1, VW-1

Standards: CSA C22.2 No. 127, UL 1063, UL 758

| Gauge AWG | Strand Count | Nominal Insulation Thickness | | Nominal Diameter | | Nominal Cable Weight | | Ampacity (amps) ** 30°C Ambient |
|------------------|-----------------|---------------------------------|-------|---------------------|-------|-------------------------|---------|------------------------------------|
| | | mm | in. | mm | in. | kgs/km | lbs/mft | |
| 18 ² | 1 | 0.76 | 0.030 | 2.62 | 0.103 | 14 | 31 | 6 |
| 16 ² | 1 | 0.76 | 0.030 | 2.87 | 0.113 | 19 | 42 | 8 |
| 14 ² | 1 | 0.76 | 0.030 | 3.20 | 0.126 | 27 | 60 | 17 |
| 12 ² | 1 | 0.76 | 0.030 | 3.63 | 0.143 | 39 | 86 | 23 |
| 10 ² | 1 | 0.76 | 0.030 | 4.19 | 0.165 | 59 | 130 | 28 |
| 22 ¹ | 7 | 0.76 | 0.030 | 2.34 | 0.092 | 8 | 18 | 3 |
| 16 ² | 7 | 0.76 | 0.030 | 3.05 | 0.120 | 20 | 44 | 8 |
| 14 ² | 7 | 0.76 | 0.030 | 3.43 | 0.135 | 28 | 62 | 17 |
| 12 ² | 7 | 0.76 | 0.030 | 3.94 | 0.155 | 42 | 93 | 23 |
| 10 ² | 7 | 0.76 | 0.030 | 4.55 | 0.179 | 62 | 137 | 28 |
| 8 ³ | 7 | 1.14 | 0.045 | 6.10 | 0.240 | 102 | 225 | 40 |
| 6 ⁴ | 7 | 1.52 | 0.060 | 7.82 | 0.308 | 166 | 366 | 55 |
| 4 ⁴ | 7 | 1.52 | 0.060 | 9.04 | 0.356 | 246 | 542 | 70 |
| 2 ⁵ | 7 | 1.52 | 0.060 | 10.62 | 0.418 | 373 | 822 | 95 |
| 14 ² | 19 | 0.76 | 0.030 | 3.45 | 0.136 | 28 | 62 | 17 |
| 12 ² | 19 | 0.76 | 0.030 | 3.96 | 0.156 | 42 | 93 | 23 |
| 10 ² | 19 | 0.76 | 0.030 | 4.57 | 0.180 | 62 | 137 | 28 |
| 8 ⁶ | 19 | 1.14 | 0.045 | 6.15 | 0.242 | 103 | 227 | 40 |
| 6 ⁷ | 19 | 1.52 | 0.060 | 7.90 | 0.311 | 167 | 368 | 55 |
| 4 ⁷ | 19 | 1.52 | 0.060 | 9.14 | 0.360 | 250 | 551 | 70 |
| 2 ⁵ | 19 | 1.52 | 0.060 | 10.72 | 0.422 | 375 | 827 | 95 |
| 20 ¹ | 10 | 0.76 | 0.030 | 2.54 | 0.100 | 11 | 24 | 4 |
| 18 ¹ | 16 | 0.76 | 0.030 | 2.77 | 0.109 | 14 | 31 | 6 |
| 16 ¹ | 26 | 0.76 | 0.030 | 3.07 | 0.121 | 20 | 44 | 8 |
| 14 ¹ | 41 | 0.76 | 0.030 | 3.45 | 0.136 | 28 | 62 | 17 |
| 12 ¹ | 65 | 0.76 | 0.030 | 3.96 | 0.156 | 41 | 90 | 23 |
| 10 ¹ | 104 | 0.76 | 0.030 | 4.57 | 0.180 | 60 | 132 | 28 |
| 8 ⁶ | 165 | 1.14 | 0.045 | 6.17 | 0.243 | 101 | 223 | 40 |
| 6 ⁷ | 266 | 1.52 | 0.060 | 8.56 | 0.337 | 172 | 379 | 55 |
| 4 ⁷ | 413 | 1.52 | 0.060 | 9.91 | 0.390 | 252 | 556 | 70 |
| 2 ⁸ | 665 | 1.52 | 0.060 | 11.79 | 0.464 | 384 | 847 | 95 |
| 1 ⁹ | 836 | 2.03 | 0.080 | 13.94 | 0.549 | 503 | 1109 | 110 |
| 1/0 ⁹ | 1064 | 2.03 | 0.080 | 15.21 | 0.599 | 622 | 1371 | 125 |
| 2/0 ⁹ | 1330 | 2.03 | 0.080 | 16.56 | 0.652 | 759 | 1673 | 145 |
| 3/0 ⁹ | 1672 | 2.03 | 0.080 | 18.08 | 0.712 | 937 | 2066 | 165 |
| 4/0 ⁹ | 2109 | 2.03 | 0.080 | 19.05 | 0.750 | 1108 | 2443 | 195 |
| 8 ⁶ | 133 | 1.14 | 0.045 | 6.63 | 0.261 | 105 | 231 | 40 |
| 6 ⁷ | 133 | 1.52 | 0.060 | 8.48 | 0.334 | 170 | 375 | 55 |
| 4 ⁷ | 133 | 1.52 | 0.060 | 9.93 | 0.391 | 253 | 558 | 70 |
| 2 ¹⁰ | 133 | 1.52 | 0.060 | 11.71 | 0.461 | 381 | 840 | 95 |
| 1 ¹⁰ | 133 | 2.03 | 0.080 | 13.84 | 0.545 | 499 | 1100 | 110 |

Specifications: ¹ TEW MTW AWM 1015 1230, ² TEW AWM 1015 1230, ³ TEW AWM 1028 1231, ⁴ TEW AWM 1232 1283, ⁵ TEW AWM 1232 1650,

⁶ TEW MTW AWM 1028 1231, ⁷ TEW MTW AWM 1232 1283, ⁸ TEW MTW AWM 1232 1650, ⁹ TEWMTW AWM 1232 1284, ¹⁰ TEW MTW AWM 1284 1650

*The -30°C low temperature rating indicates that the cables have passed a cold bend test under carefully controlled laboratory conditions. These conditions may or may not reflect actual field conditions. It is therefore recommended that all cables be warmed to at least -10°C before installation.

** For multiple conductors in cable or conduit the maximum current rating is subject to the derating factors in CEC Part 1, rule 4-014 (1) (b) (c) (d) and (e).

Note: All dimensions are nominal and are subject to normal manufacturing tolerance. Specifications are subject to change without notice.