



## ETFE 200°C 300V UL 10109

Flexible UL/CSA Approved Lead Wire, Temp Rating 200°C

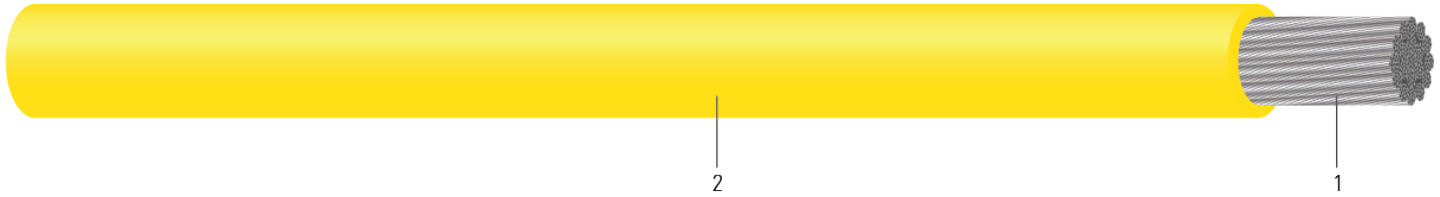


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Stranded tinned, annealed copper per ASTM B33
2. **Insulation:** Extruded ETFE fluoropolymer jacket

### APPLICATIONS AND FEATURES:

Used for wiring of electric heaters, appliances, thermocouples, gas igniters, electrical and electronic components, and other products up to 200°C.

Excellent chemical resistance, excellent resistance to fluids, and low coefficient of friction makes installation easier. Flexible. Good mechanical strength. Available in all colors.

### SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL AWM Appliance wire approvals as listed in Table 1
- RoHS-3 Complies with European Directive 2015/863





**Table 1 – Weights and Measurements**

| Stock Number | Cond. Size<br>AWG/Kcmil | Cond. Strands<br>strand | Insul. Thickness<br>mil | Approx. OD<br>inch | Approx. Weight<br>lb/1000ft | Temp. Rating<br>°C | Standard (UL or other)<br>Style/Type |
|--------------|-------------------------|-------------------------|-------------------------|--------------------|-----------------------------|--------------------|--------------------------------------|
| CZ243X       | 24*                     | 7/.008                  | 6                       | 0.038              | 2                           | 200                | 10109                                |
| CZ223X       | 22*                     | 7/.010                  | 6                       | 0.044              | 3                           | 200                | 10109                                |
| CZ203X       | 20*                     | 7/.0126                 | 6                       | 0.052              | 4                           | 200                | 10109                                |
| CZ183A       | 18                      | 7/.0159                 | 6                       | 0.062              | 7                           | 200                | 10109                                |
| CZ163A       | 16                      | 7/.0192                 | 8                       | 0.072              | 9                           | 200                | 10109                                |
| CZ143A       | 14                      | 7/.0242                 | 8                       | 0.087              | 14                          | 200                | 10109                                |
| CZ123A       | 12                      | 19/.0179                | 10                      | 0.115              | 23                          | 200                | 10109                                |
| CZ103A       | 10                      | 37/.0159                | 10                      | 0.139              | 35                          | 200                | 10109                                |
| CZ083A       | 8                       | 54/.0179                | 25                      | 0.220              | 65                          | 200                | 10109                                |
| CZ063A       | 6                       | 84/.0179                | 25                      | 0.243              | 97                          | 200                | 10109                                |
| CZ043A       | 4                       | 133/.0177               | 25                      | 0.319              | 150                         | 200                | 10109                                |
| CZ023A       | 2                       | 133/.0223               | 35                      | 0.408              | 243                         | 200                | 10109                                |
| CZ013A       | 1                       | 259/.0177               | 35                      | 0.451              | 303                         | 200                | 10109                                |
| CZ1T3A       | 1/0                     | 259/.0202               | 45                      | 0.518              | 389                         | 200                | 10109                                |
| CZ2T3A       | 2/0                     | 259/.0229               | 45                      | 0.571              | 484                         | 200                | 10109                                |
| CZ3T3A       | 3/0                     | 259/.0255               | 45                      | 0.610              | 565                         | 200                | 10109                                |
| CZ4T3A       | 4/0                     | 259/.0286               | 45                      | 0.695              | 726                         | 200                | 10109                                |

All dimensions are nominal and subject to normal manufacturing tolerances  
 ◇ Cable marked with this symbol is a standard stock item  
 Dimensions and weights for other cable configurations are available upon request.  
 \*NPC Conductor required for 200°C Rating

**Table 2 – Weights and Measurements (Metric)**

| Stock Number | Cond. Size<br>AWG/Kcmil | Cond. Strands<br>strand | Insul. Thickness<br>mm | Approx. OD<br>mm | Approx. Weight<br>kg/km | Temp. Rating<br>°C | Standard (UL or other)<br>Style/Type |
|--------------|-------------------------|-------------------------|------------------------|------------------|-------------------------|--------------------|--------------------------------------|
| CZ243X       | 24*                     | 7/.008                  | 0.15                   | 0.97             | 3                       | 200                | 10109                                |
| CZ223X       | 22*                     | 7/.010                  | 0.15                   | 1.12             | 4                       | 200                | 10109                                |
| CZ203X       | 20*                     | 7/.0126                 | 0.15                   | 1.32             | 6                       | 200                | 10109                                |
| CZ183A       | 18                      | 7/.0159                 | 0.15                   | 1.57             | 10                      | 200                | 10109                                |
| CZ163A       | 16                      | 7/.0192                 | 0.20                   | 1.83             | 13                      | 200                | 10109                                |
| CZ143A       | 14                      | 7/.0242                 | 0.20                   | 2.21             | 21                      | 200                | 10109                                |
| CZ123A       | 12                      | 19/.0179                | 0.25                   | 2.92             | 34                      | 200                | 10109                                |
| CZ103A       | 10                      | 37/.0159                | 0.25                   | 3.53             | 52                      | 200                | 10109                                |
| CZ083A       | 8                       | 54/.0179                | 0.64                   | 5.59             | 97                      | 200                | 10109                                |
| CZ063A       | 6                       | 84/.0179                | 0.64                   | 6.17             | 144                     | 200                | 10109                                |
| CZ043A       | 4                       | 133/.0177               | 0.64                   | 8.10             | 223                     | 200                | 10109                                |
| CZ023A       | 2                       | 133/.0223               | 0.89                   | 10.36            | 362                     | 200                | 10109                                |
| CZ013A       | 1                       | 259/.0177               | 0.89                   | 11.46            | 451                     | 200                | 10109                                |
| CZ1T3A       | 1/0                     | 259/.0202               | 1.14                   | 13.16            | 579                     | 200                | 10109                                |
| CZ2T3A       | 2/0                     | 259/.0229               | 1.14                   | 14.50            | 720                     | 200                | 10109                                |
| CZ3T3A       | 3/0                     | 259/.0255               | 1.14                   | 15.49            | 841                     | 200                | 10109                                |
| CZ4T3A       | 4/0                     | 259/.0286               | 1.14                   | 17.65            | 1080                    | 200                | 10109                                |

