

# COPPER AND ALUMINUM COMPRESSION SPLICES

### Copper Compression Splices



TE's Copper Compression Splices are ideal for secondary distribution up to 35 kV. Copper Compression Splices are available to accommodate a range of cable sizes from #8 AWG to 1000 kcmil copper.

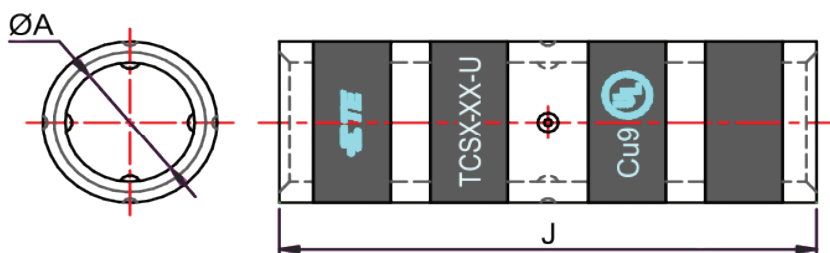
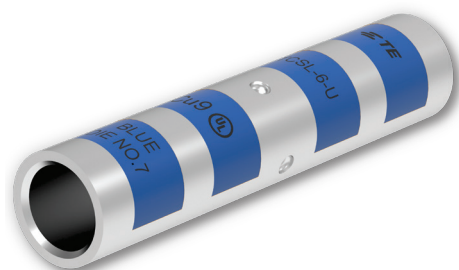
Use for splicing solid and concentric stranded, class B conductors with either a standard or long barrel version and meet the requirements of UL 486.

Compression crimping forms the splice and conductor into a strong, almost homogeneous unit, producing excellent conductivity, low temperature rise, and outstanding resistance to oxidation and corrosion. Compression of the splice barrel creates a highly reliable connection that enables connector to perform well and at a lower temperature than the conductor during operation.

#### Key Features

- One piece electrolytic copper construction for superior electrical performance
- Tin-plated for corrosion resistance and durability, and tempered for easy crimping
- UL Listed as per UL 486A-486B
- Industry standard color coding system simplifies die selection
- Easy to install with industry standard tooling

## Copper And Aluminum Compression Splices



### STANDARD BARREL

| Description | Conductor<br>AWG/MCM | Dimensions in<br>mm (in) |              | Color Code |
|-------------|----------------------|--------------------------|--------------|------------|
|             |                      | A Ø                      | J            |            |
| TCSS-8-U    | 8                    | 4.4 (0.17)               | 25.4 (1.00)  | Red        |
| TCSS-6-U    | 6                    | 5.0 (0.20)               | 44.5 (1.75)  | Blue       |
| TCSS-4-U    | 4                    | 6.3 (0.25)               | 44.5 (1.75)  | Gray       |
| TCSS-2-U    | 2                    | 7.8 (0.31)               | 50.8 (2.00)  | Brown      |
| TCSS-1-U    | 1                    | 9.0 (0.35)               | 52.3 (2.06)  | Green      |
| TCSS-1/0-U  | 1/0                  | 9.9 (0.39)               | 52.8 (2.08)  | Pink       |
| TCSS-2/0-U  | 2/0                  | 11.3 (0.45)              | 55.1 (2.17)  | Black      |
| TCSS-3/0-U  | 3/0                  | 12.4 (0.49)              | 58.4 (2.3)   | Orange     |
| TCSS-4/0-U  | 4/0                  | 14.2 (0.56)              | 58.9 (2.32)  | Purple     |
| TCSS-250-U  | 250                  | 15.1 (0.59)              | 62.5 (2.46)  | Yellow     |
| TCSS-300-U  | 300                  | 16.5 (0.65)              | 62.7 (2.47)  | White      |
| TCSS-350-U  | 350                  | 17.8 (0.70)              | 66.0 (2.60)  | Red        |
| TCSS-400-U  | 400                  | 19.3 (0.76)              | 69.6 (2.74)  | Blue       |
| TCSS-500-U  | 500                  | 21.1 (0.83)              | 80.0 (3.15)  | Brown      |
| TCSS-600-U  | 600                  | 23.4 (0.92)              | 81.8 (3.22)  | Green      |
| TCSS-750-U  | 750                  | 26.2 (1.03)              | 94.5 (3.72)  | Black      |
| TCSS-1000-U | 1000                 | 29.7 (1.17)              | 108.7 (4.28) | White      |

### LONG BARREL

| Description | Conductor<br>AWG/MCM | Dimensions in<br>mm (in) |              | Color Code |
|-------------|----------------------|--------------------------|--------------|------------|
|             |                      | A Ø                      | J            |            |
| TCSL-8-U    | 8                    | 4.4 (0.17)               | 44.5 (1.75)  | Red        |
| TCSL-6-U    | 6                    | 5.0 (0.20)               | 60.5 (2.38)  | Blue       |
| TCSL-4-U    | 4                    | 6.3 (0.25)               | 64.8 (2.55)  | Gray       |
| TCSL-2-U    | 2                    | 7.8 (0.31)               | 71.6 (2.82)  | Brown      |
| TCSL-1-U    | 1                    | 9.0 (0.35)               | 78.0 (3.07)  | Green      |
| TCSL-1/0-U  | 1/0                  | 9.9 (0.39)               | 77.7 (3.06)  | Pink       |
| TCSL-2/0-U  | 2/0                  | 11.3 (0.45)              | 83.8 (3.3)   | Black      |
| TCSL-3/0-U  | 3/0                  | 12.4 (0.49)              | 83.8 (3.3)   | Orange     |
| TCSL-4/0-U  | 4/0                  | 14.2 (0.56)              | 90.7 (3.57)  | Purple     |
| TCSL-250-U  | 250                  | 15.1 (0.59)              | 90.9 (3.58)  | Yellow     |
| TCSL-300-U  | 300                  | 16.5 (0.65)              | 110.2 (4.34) | White      |
| TCSL-350-U  | 350                  | 17.8 (0.70)              | 110.5 (4.35) | Red        |
| TCSL-400-U  | 400                  | 19.3 (0.76)              | 117.3 (4.62) | Blue       |
| TCSL-500-U  | 500                  | 21.1 (0.83)              | 124.7 (4.91) | Brown      |
| TCSL-600-U  | 600                  | 23.4 (0.92)              | 148.6 (5.85) | Green      |
| TCSL-750-U  | 750                  | 26.2 (1.03)              | 162.1 (6.38) | Black      |
| TCSL-1000-U | 1000                 | 29.7 (1.17)              | 176.5 (6.95) | White      |

### LONG BARREL (METRIC CONDUCTORS)

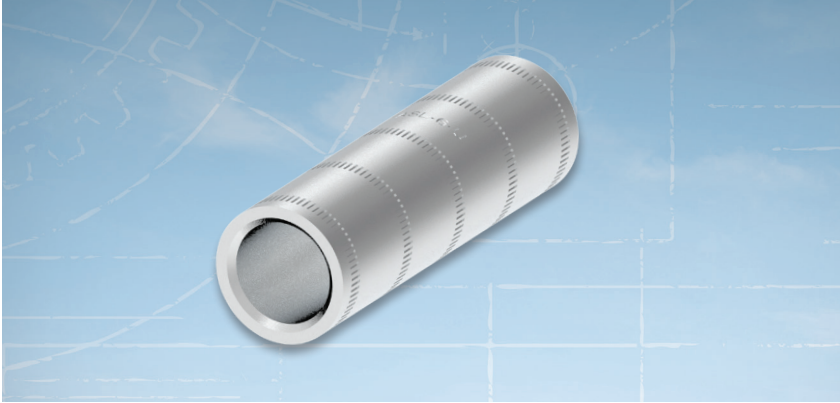
| Description | Conductor<br>mm <sup>2</sup> | Dimensions in<br>mm (in) |              | Color Code |
|-------------|------------------------------|--------------------------|--------------|------------|
|             |                              | A Ø                      | J            |            |
| TCSL-10M-U  | 10                           | 4.5 (0.18)               | 22.0 (0.87)  | Red        |
| TCSL-16M-U  | 16                           | 5.4 (0.21)               | 44.0 (1.73)  | Blue       |
| TCSL-25M-U  | 25                           | 6.8 (0.27)               | 47.0 (1.85)  | Gray       |
| TCSL-35M-U  | 35                           | 8.2 (0.32)               | 47.0 (1.85)  | Brown      |
| TCSL-50M-U  | 50                           | 10.0 (0.39)              | 47.0 (1.85)  | Pink       |
| TCSL-70M-U  | 70                           | 11.3 (0.44)              | 50.0 (1.97)  | Black      |
| TCSL-95M-U  | 95                           | 13.5 (0.53)              | 54.0 (2.13)  | Orange     |
| TCSL-120M-U | 120                          | 15.0 (0.59)              | 65.0 (2.56)  | Purple     |
| TCSL-150M-U | 150                          | 16.5 (0.65)              | 65.0 (2.56)  | White      |
| TCSL-185M-U | 185                          | 18.5 (0.73)              | 65.0 (2.56)  | Red        |
| TCSL-240M-U | 240                          | 21.0 (0.83)              | 89.0 (3.50)  | Brown      |
| TCSL-300M-U | 300                          | 23.5 (0.93)              | 89.0 (3.50)  | Green      |
| TCSL-400M-U | 400                          | 28.5 (1.12)              | 90.0 (3.54)  | Black      |
| TCSL-500M-U | 500                          | 30.0 (1.18)              | 115.0 (4.53) | White      |

### Physical & Electrical Properties

|                  |                                                                                          |
|------------------|------------------------------------------------------------------------------------------|
| Material         | : ETP copper alloy C11000                                                                |
| Plating          | : Electro tin plate                                                                      |
| Heat treating    | : Soft tempered                                                                          |
| Voltage rating   | : For applications up to 35 kV                                                           |
| Agency approvals | : Listed by Underwriters Laboratories, Inc.<br>(When crimped with the approved die sets) |



### Dual Rated Aluminum Crimp Splices



TE's Dual Rated Aluminum Crimp Splices are designed on high conductivity aluminum. The Dual Rated Aluminum Crimp Splices are electro-tin plated to resist electrolytic corrosion. They are suitable in applications from 600 V to 35 kV.

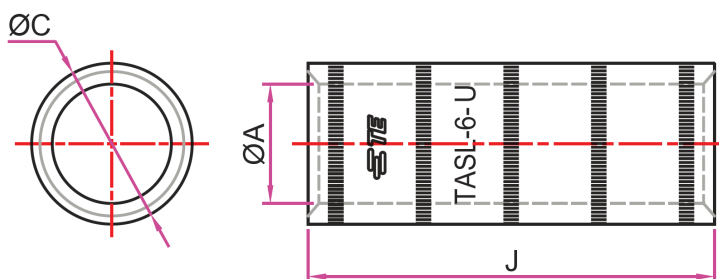
Compression splices are available to accommodate a broad range of cable sizes from #1/0 AWG to 750 kcmil in both copper and aluminum material, in one- or two-hole configuration.

The barrels are chamfered, or chant edged, for easy entry of the conductor. Also, they are pre-filled with oxide inhibitor compound to prevent contamination. The long barrel length provides extra contact with the conductor, post crimping. Every barrel cap is color-coded to the proper die for error-free die selection. It prevents the inhibitor from getting contaminated before installation.

#### Key Features

- Easy to install with industry standard tooling
- Electro tin-plated for electrolytic corrosion resistance and durability
- Industry standard, color coded barrel ends and caps simplify die selection and prevent contamination of Oxide-Inhibiting compound
- For 600 V to 35 kV applications
- Suitable with both aluminum and copper conductors

## Copper And Aluminum Compression Splices



### ALUMINUM COMPRESSION SPLICES

| Description | Conductor<br>AWG/MCM | Dimensions mm (inch) |      |               |      |                  |       |
|-------------|----------------------|----------------------|------|---------------|------|------------------|-------|
|             |                      | A (Internal Dia)     |      | C (Outer Dia) |      | J (Total Length) |       |
| TASL-6-U    | 6 AWG                | (5.1)                | 0.2  | (0.35)        | 8.8  | (1.62)           | 41.1  |
| TASL-4-U    | 4 AWG                | (6.7)                | 0.26 | (0.47)        | 11.9 | (2.12)           | 53.8  |
| TASL-2-U    | 2 AWG                | (7.8)                | 0.31 | (0.53)        | 13.5 | (2.0)            | 50.8  |
| TASL--1-U   | 1 AWG                | (8.9)                | 0.35 | (0.53)        | 13.5 | (2.0)            | 50.8  |
| TASL-1/0-U  | 1/0 AWG              | (10.5)               | 0.41 | (0.64)        | 16.3 | (2.12)           | 53.8  |
| TASL-2/0-U  | 2/0 AWG              | (11.2)               | 0.44 | (0.69)        | 17.5 | (2.31)           | 58.7  |
| TASL-3/0-U  | 3/0 AWG              | (12.3)               | 0.48 | (0.76)        | 19.3 | (2.62)           | 66.5  |
| TASL-4/0-U  | 4/0 AWG              | (13.7)               | 0.54 | (0.87)        | 22.2 | (2.75)           | 69.9  |
| TASL-250-U  | 250 MCM              | (15.1)               | 0.59 | (0.91)        | 23   | (2.94)           | 74.7  |
| TASL-300-U  | 300 MCM              | (16.5)               | 0.65 | (1.01)        | 25.7 | (3.12)           | 79.2  |
| TASL-350-U  | 350 MCM              | (18.3)               | 0.72 | (1.11)        | 28.1 | (3.38)           | 85.8  |
| TASL-500-U  | 500 MCM              | (21.4)               | 0.84 | (1.32)        | 33.5 | (3.88)           | 98.6  |
| TASL-600-U  | 600 MCM              | (23.4)               | 0.92 | (1.44)        | 36.5 | (4.12)           | 104.6 |
| TASL-750-U  | 750 MCM              | (26.2)               | 1.03 | (1.50)        | 38.1 | (4.68)           | 118.8 |



FILE NO. : E1328



FILE NO. : K3111-17-N/7564



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