

## Telephone Cable Splice Connectors

Tel-Splice connectors provide an economical and reliable means of splicing telephone cable conductors.

**Advantages:**

- Durable – Highly resistant to moisture and chemical attack; flame retardant models available.
- Economical – Lower applied cost; IDC, installation displacement connectors, gas tight connections, no prestripping required, means minimal operator preparation.
- Versatile – Available filled or unfilled; color coded for easy identification: 2-wire, 3-wire, half-tap and Clear & Cap in loose piece or cartridge.

**Applications:**

- Load Coils
- Stub Cables
- Ready Access Terminals
- Trunk and Tool Cables



Tel-Splice

**Tel-Splice Matrix TUS and Cartridge Version**

| Description | Gel    | Style | TUS              |                               |            |                         |                       |                       | Cartridge             |          |          |
|-------------|--------|-------|------------------|-------------------------------|------------|-------------------------|-----------------------|-----------------------|-----------------------|----------|----------|
|             |        |       | Housing Color    | Contact Material <sup>2</sup> | Max ID/OD  | Part Numbers            |                       |                       | Part Numbers          |          |          |
|             |        |       |                  |                               |            | 100/Box                 | 500/Tub               | 1,000/Tub             | 14/Cart. <sup>3</sup> | 56/Cart. | 72/Cart. |
| 2-Wire      | Filled | TUS   | Translucent      | PBTP                          | 0.080-2.03 | 1-552795-2 <sup>4</sup> |                       | 552795-2 <sup>4</sup> | 555790-1              |          | 552966-2 |
|             | Dry    | TUS   | Yellow           | PBTP                          | 0.080-2.03 | 1-552795-4              |                       | 552795-4 <sup>4</sup> | 555790-2              |          | 552966-4 |
|             | Dry    | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 | 1-553395-1 <sup>5</sup> |                       | 555395-1 <sup>5</sup> |                       |          | 552966-5 |
|             | Filled | TUS   | Translucent      | BTP                           | 0.080-2.03 |                         |                       | 552795-1              |                       |          |          |
|             | Dry    | TUS   | Yellow           | BTP                           | 0.080-2.03 |                         |                       | 552795-3              |                       |          |          |
|             | Filled | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 |                         |                       | 553395-3 <sup>5</sup> |                       |          |          |
| 3-Wire      | Filled | TUS   | Translucent      | PBTP                          | 0.080-2.03 | 1-552678-2              | 552678-2 <sup>4</sup> | 555791-1              | 555791-1              |          | 555965-2 |
|             | Dry    | TUS   | Yellow           | PBTP                          | 0.080-2.03 | 1-552678-4              | 552678-4              |                       | 555791-2              |          | 552965-4 |
|             | Dry    | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 | 1-553759-1 <sup>5</sup> |                       |                       | 406908-1              |          |          |
|             | Filled | TUS   | Translucent UV   | BTP                           | 0.080-2.03 | 558050-1                |                       |                       |                       |          |          |
|             | Filled | TUS   | Translucent      | BTP                           | 0.080-2.03 | 1-552678-6              |                       |                       |                       |          |          |
|             | Dry    | TUS   | Yellow           | BTP                           | 0.080-2.03 |                         | 552678-3              |                       |                       |          |          |
|             | Filled | TUS   | Red              | PBTP                          | 0.080-2.03 | 1-552678-7              |                       |                       |                       |          |          |
|             | Filled | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 | 553759-4 <sup>5</sup>   |                       | 553759-3 <sup>5</sup> |                       |          |          |
| 1/2 Tap     | Filled | TUS   | Translucent Blue | BTP                           | 0.080-2.03 | 1-553017-1              |                       | 553017-1 <sup>4</sup> |                       |          |          |
|             | Filled | TUS   | Translucent Blue | PBTP                          | 0.080-2.03 | 1-553017-2              |                       | 553017-2              |                       |          | 553744-2 |
|             | Filled | TUS   | Green            | PBTP                          | 0.080-2.03 | 1-553017-7              |                       |                       |                       |          |          |
|             | Dry    | TUS   | Yellow           | PBTP                          | 0.080-2.03 | 1-553017-4              |                       | 553017-4              |                       |          | 553744-4 |
|             | Dry    | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 | 1-553397-1 <sup>5</sup> |                       | 553397-1 <sup>5</sup> |                       |          | 553744-5 |
|             | Filled | TUS   | Clear F/R        | PBTP                          | 0.080-2.03 |                         |                       | 553397-3 <sup>5</sup> |                       |          |          |
| Clear & Cap | Filled | TUS   | Green            | N/A                           | 0.080-2.03 | 5-554374-1              |                       | 5-554374-3            | 555792-1              |          | 554897-1 |
|             | Dry    | TUS   | Yellow           | N/A                           | 0.080-2.03 | 5-554374-2              |                       | 5-554374-4            |                       |          | 554897-2 |

<sup>1</sup> Must be ordered in multiples of 10 cartridges

<sup>2</sup> PBTP = Phosphor Bronze Tin Plated

BTP = Brass Tin Plated

<sup>3</sup> For use in 3M's E-9C Cartridge tool

<sup>4</sup> RUS Listed

<sup>5</sup> UL Listed, File No. E81956

<sup>6</sup> Must be ordered in multiples of 25 cartridges

Operating Temp for TUS Tel-Splice 2 wire, 3 wire and 1/2 tap is -40C to 90C except for Flame Retardant (F/R) versions which have a range of -40C to 100C

Maximum wire range for TUS Tel-Splice is 0.080"/2.03mm

Technical Specifications:

108-6021 all 2 wire, 3 wire, and 1/2 tap versions, except Flame Retardant

108-6042 all Flame Retardant versions

108-6075 Clear & Cap

MSDS for filled product 125-6332

## Product Overview

### Tel-Splice TSP Version

| Loose Piece |         |       | Housing | Contact  | Part Numbers |          |         |         |         |
|-------------|---------|-------|---------|----------|--------------|----------|---------|---------|---------|
| Description | Sealant | Style | Color   | Material | Max ID/OD    | 100/Box  | 250/Box | 400/Box | 500/Box |
| 2-Wire      | Filled  | TSP   | Blue    | Brass    | .080"/2.03mm | 737636-2 |         |         |         |

Operating Temp is -25C to 75C

Insulation Diameter as shown 0.080"/2.03mm

Wire Range 19-24awg/0.4-0.9mm

Industry standards - BT listing on Tel-Splice

Technical Specifications 108-22040

MSDS for filled product 125-6332

### Tel-Splice THG Version

| Loose Piece |         |       | Housing     | Contact  | Part Numbers |         |          |          |          |
|-------------|---------|-------|-------------|----------|--------------|---------|----------|----------|----------|
| Description | Sealant | Style | Color       | Material | Max ID/OD    | 100/Box | 250/Box  | 400/Box  | 500/Box  |
| 2-Wire      | Filled  | THG   | Translucent | Brass    | 0.064-1.63   |         |          |          | 342583-2 |
|             | Filled  | THG   | Translucent | Brass    |              |         |          | 343586-2 |          |
| 3-Wire      | Filled  | THG   | Translucent | Brass    |              |         | 342816-2 |          |          |

Operating Temp is -25C to 75C

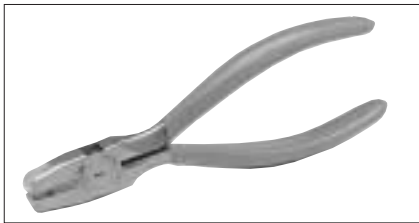
Insulation Diameter as shown 0.064"/1.63mm

Wire Range 19-24awg/0.4-0.9mm

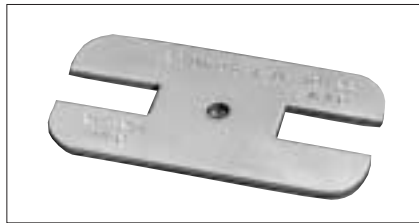
Industry standards - BT listing on Tel-Splice

Technical Specifications 108-3079, 3038, 3050

### Hand Tools for Loose Piece Applications

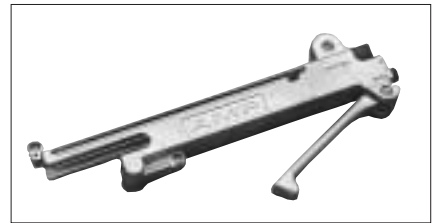


Economy (E.T.) Tool:  
Part Number 231839-1



Crimp Handle Gauge:  
Part Number 230495-1  
Used to check proper crimp height of terminated connectors.

### Hand Tool for Cartridge Application



Cartridge Tool (for TUS version only):  
Part Number 230722-1  
Tool has built-in gauge slots to check crimp height.  
Note: Single Track cartridges (14/cartridges) fit 3M E-9C Tool.

### Technical Documents:

Instruction Sheets

408-3183, 408-4235, 408-6502, 408-6506

Application Specifications

114-21003 (2-Wire)

114-6010 (TS-2, Half-Tap)



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