



### Crimp Terminals, Disconnects, and Splices

Thomas & Betts is pleased to introduce Spec-Kon® crimp terminals, disconnects, and splices. Ideal for OEM applications, the Spec-Kon® line can be used anywhere a high number of terminations are required every day, such as the wiring harness, panelboard, telecommunications, and automotive industries.

#### The Spec-Kon® terminal offering includes:

- A broad selection of bulk-packaged loose piece terminals in non-insulated and insulated varieties, including male and female disconnects, rings, forks, pins, blades, butt splices, wire joints and bullet connectors.
- Terminals on mylar tape for automated applications, including the new KT-2500 power tool for frequent, repeated crimps.
- The ERG-2500 ergonomic hand tool, which crimps all sizes of insulated barrel-style Spec-Kon® wire termination products.

## Catalog Numbering System

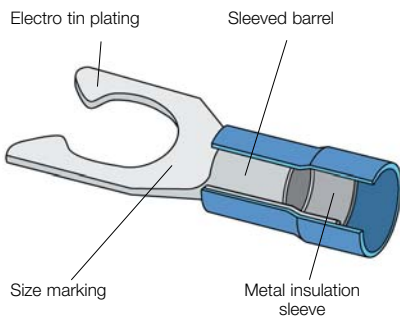
### Example: KV18-6R-M

| M         | K                                  | V                                                                                                                                          | 18                                                                                                     | 6                                                                                                                                                                                                                              | R                                                                                                                                                                                                                                                                                                                                                                                                        | M                                                                                                                                                            |
|-----------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | Product                            | Terminal and Insulation                                                                                                                    | Wire Size Range                                                                                        | Feature Size                                                                                                                                                                                                                   | Terminal Type                                                                                                                                                                                                                                                                                                                                                                                            | Box Quantity                                                                                                                                                 |
| Spec-Kon® | Thomas & Betts Spec-Kon® Terminals | (Blank) Bare Non-Insulated<br>(V) Vinyl Funnel Entry<br>(N) Nylon Funnel Entry<br>(VF) Vinyl Fully Insulated<br>(NF) Nylon Fully Insulated | (18) 22-16 AWG<br>(14) 16-14 AWG<br>(10) 12-10 AWG<br>(8) 8 AWG<br>(6) 6 AWG<br>(4) 4 AWG<br>(2) 2 AWG | <b>Bolt Hole:</b><br>Ring and Fork Terminals<br><br><b>Tab Width:</b><br>(250 Series) Disconnects<br><br><b>Pin Length:</b><br>Pin Terminals<br><br><b>Blade Length:</b><br>Blade Terminals<br><br><b>Diameter:</b><br>Bullets | (R) Ring<br>(MS) Multiple Stud Ring<br>(F) Fork<br>(LF) Locking Fork<br>(FF) Flanged Fork<br>(PT) Pin Terminal<br>(BL) Blade Terminal<br>(MD) Male Disconnect<br>(FD) Female Disconnect<br>(FFD) Female Flag Disconnect<br>(PD) Piggy Back Disconnect<br>(FB) Female Bullet<br>(MB) Male Bullet<br>(BS) Butt Splice<br>(QS) Quick Splice<br>(WJ) Wire Joint (Closed End)<br>(BFD) Barrel Flag Disconnect | (C) = 100<br>(CC) = 200<br>(W) = 250<br>(D) = 500<br>(M) = 1,000<br>(T) = Mylar Tape*<br><br>* Please contact Customer Service for pricing and availability. |



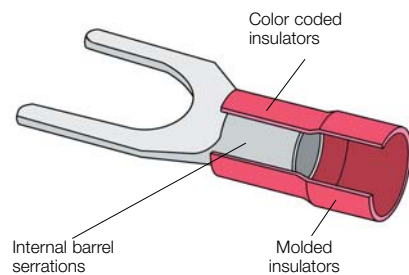
## Features and Benefits of Spec-Kon® Terminals

- **Internal barrel serrations**—During crimping, the wire will cold flow into serrations, giving lower resistance connections and improving tensile strength.
- **Size marking**—Wire range is stamped on the tongue (metric and English) for easy access to the terminal size without drawings/packageing.
- **Electro tin plating**—Provides excellent corrosion resistance, superior finish for better-looking installation.
- **Ergonomic hand tool**—Ergonomically designed ERG-2500 completes a UL listed crimp while requiring substantially lower handle forces.
- **One tool for all insulated products**—Thomas & Betts offers a single tool that crimps the entire range of standard insulated terminals, disconnects, and butt splices. Many competitors require 2 to 4 tools to cover the same range.
- **Color coding**—Insulators are color coded for specific wire size (red=22-16AWG, blue=16-14AWG, yellow=12-10AWG). Red=8AWG, blue=6AWG.



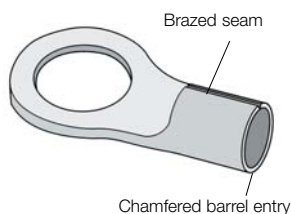
## Nylon Insulated Terminals

- **Sleeved barrel**—Ensures barrel does not separate during crimping.
- **Molded insulators**—Molded insulators ensure consistent shape and quality, shaped entry speeds installation and reduces wire hang up.
- **Metal insulation sleeve**—Sleeve crimps wire insulation, providing high-vibration resistance and conductor strain relief.
- **Nylon material**—Ideal for harsh environments. Provides excellent chemical, impact and abrasion resistance.
- **Ratings**—UL Listed, cULus Listed, CSA, 600 V at 105°C.



## Vinyl Insulated Terminals

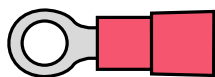
- **Brazed seam**—Ensures barrel does not separate during crimping.
- **Molded funnel entry insulators**—Funnel entry speeds installation and reduces wire hang up. Molded insulators ensure consistent shape and quality every time.
- **Insulation crimp**—The insulator mouth is flared to speed installation and accommodate thicker insulated wires. Also, provides insulation support strain relief in high-vibration applications.
- **Vinyl material**—Economical, moisture resistant and flame retardant (UL94V-0)
- **Ratings**—UL Listed, cULus Listed, CSA, 600 V at 105°C.



## Non-Insulated Terminals

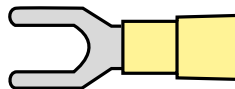
- **Brazed seam**—Ensures barrel does not separate during crimping.
- **Chamfered barrel entry**—Smoothing the barrel entry edge facilitates wire insertion.
- **Ratings**—UL Listed, cULus Listed, CSA, 2000 V.

### Design Features of Spec-Kon® Terminals



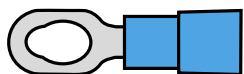
#### Rings

Provides the most secure and reliable connection available



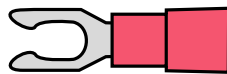
#### Forks

Fast and easy to install without removing the terminal block screw



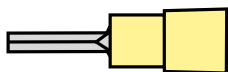
#### Multiple-Stud Rings

Special tongue style that accommodates 3 stud sizes with one terminal



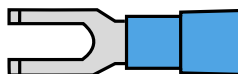
#### Locking Forks

Offers the secure connection of a ring terminal with the fast and easy installation of a fork terminal



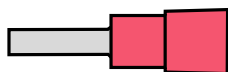
#### Pins

Standard insulation-style terminals for use on DIN-style/metric terminal blocks



#### Flanged Forks

Turned-up toes provide secure connections in high-vibration applications



#### Blades

Standard insulation-style terminals for use on DIN-style/metric terminal blocks

### Performance Requirements

| Description                            | Wire Size (AWG) |     |     |     |     |     |     |    |     |     |     |
|----------------------------------------|-----------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
|                                        | #22             | #20 | #18 | #16 | #14 | #12 | #10 | #8 | #6  | #4  | #2  |
| <b>U.L. 486A (Terminals)</b>           |                 |     |     |     |     |     |     |    |     |     |     |
| Test Current for Max. 50°C Rise (Amps) | 9               | 12  | 17  | 18  | 30  | 35  | 50  | 70 | 95  | 125 | 70  |
| Min. Tensile Strength* (Lbs.)          | 8               | 13  | 20  | 30  | 50  | 70  | 80  | 90 | 100 | 140 | 180 |

\* Pull-out force of the crimped terminal.

### Applicable Spec-Kon® products meet or exceed the following test specifications:

- UL486A (Terminals)
- CSA
- UL486C (Splices)

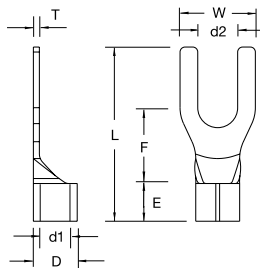
UL listed products are shown with the applicable logos in the product section.

UL file #E9809 (Terminals).

CSA file #LR4503



- Chamfered Barrel
- Brazed Seam
- Internal Barrel Serrations



## Non-Insulated Fork Terminals



| Catalog<br>Number | Wire<br>Range                                     | Bolt<br>Size (d2) |             | Dimension <small>inch<br/>mm</small> |             |              |             |             |             |              |
|-------------------|---------------------------------------------------|-------------------|-------------|--------------------------------------|-------------|--------------|-------------|-------------|-------------|--------------|
|                   |                                                   |                   |             | W                                    | F           | L            | E           | D           | d1          | T            |
| K18-6F-M          | 22-16<br>A.W.G.<br><br>0.5-1.5<br>mm <sup>2</sup> | #6                | .146<br>3.7 | .252<br>6.4                          | .256<br>6.5 | .630<br>16.0 | .189<br>4.8 | .134<br>3.4 | .067<br>1.7 | .030<br>0.75 |
| K18-8F-M          |                                                   | #8                | .169<br>4.3 | .252<br>6.4                          |             |              |             |             |             |              |
| K18-10F-M         |                                                   | #10               | .209<br>5.3 | .319<br>8.1                          |             |              |             |             |             |              |
| K14-6F-M          | 16-14<br>A.W.G.<br><br>1.5-2.5<br>mm <sup>2</sup> | #6                | .146<br>3.7 | .236<br>6.0                          | .256<br>6.5 | .630<br>16.0 | .189<br>4.8 | .161<br>4.1 | .091<br>2.3 | .031<br>0.8  |
| K14-8F-M          |                                                   | #8                | .169<br>4.3 | .252<br>6.4                          |             |              |             |             |             |              |
| K14-10F-M         |                                                   | #10               | .209<br>5.3 | .319<br>8.1                          |             |              |             |             |             |              |
| K10-6F-M          | 12-10<br>A.W.G.<br><br>4-6<br>mm <sup>2</sup>     | #6                | .146<br>3.7 | .283<br>7.2                          | .295<br>7.5 | .685<br>17.4 | .236<br>6.0 | .220<br>5.6 | .134<br>3.4 | .039<br>1.0  |
| K10-8F-M          |                                                   | #8                | .169<br>4.3 | .327<br>8.3                          |             |              |             |             |             |              |
| K10-10F-M         |                                                   | #10               | .209<br>5.3 | .354<br>9.0                          |             |              |             |             |             |              |
| K10-14F-M         |                                                   | 1/4               | .252<br>6.4 | .354<br>9.0                          |             |              |             |             |             |              |

Box Quantity: (M)=1000

For Mylar Tape replace box quantity with (T). Example: K18-6F-T

UL File #E9809

CSA File #LR4503

See pages in back of catalog for complete tool information.

Tool and Die Selection Chart on page M42.

Terminal Material: Copper

## Tools used with Non-Insulated Fork Terminals



ERG2002



KT-2500