

# PLASTI-GRIP TERMINALS & SPLICES

Quick Reference Guide

## FEATURES AND BENEFITS

- PVC Insulation sleeve provides good dielectric strength and supports the wire insulation so that no bare wire is exposed
- Accepted in various markets
- Crimp performance guaranteed with TE tooling
- Funneled wire entry on terminal prevents turned back wire strands and permits rapid wire insertion during high speed production
- Serrations in the crimp barrel provide maximum contact and tensile strength after crimping
- Most UL listed/CSA approved; insulation is 94V-0 rated

**600V**

Operating  
Voltage

**105°**

Max Operating  
Temperature (Celsius)

**UL/CSA**

UL and CSA  
Approval

## PRODUCT APPLICATIONS

- Panel Boxes
- Motors
- Switchgear
- Power Supplies
- Instruments/Controls
- Lighting
- Transportation
- HVAC
- Repair, Service & Installation



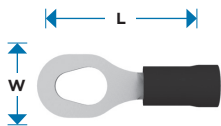
# WHAT'S INSIDE

Pre-insulated PLASTI-GRIP solderless terminals and splices are designed specifically to answer the need for low-cost, insulated electrical terminations. They consist of a high conductivity copper body and color coded PVC insulation that can be used in almost all commercial applications. Carefully engineered Application Tooling has been designed in conjunction with the terminal to promote ease and speed of application. The wire and wire barrel together form a connection of high conductivity and tensile strength, while the tin plating provides good resistance to corrosion. The quality, performance, and ease of installation make them ideal for many industrial applications. Most PLASTI-GRIP products are UL and CSA approved, and are available in various tongue styles, stud sizes, and wire ranges from 22 AWG through 2/0.



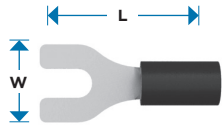
**Ring Tongue Terminals (continued)**

|           |                 |          |     |                      |           |       |            |       |        |                             |       |                                |               |              | Manual Hand Tools                      |                                          |                                                 | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                                |
|-----------|-----------------|----------|-----|----------------------|-----------|-------|------------|-------|--------|-----------------------------|-------|--------------------------------|---------------|--------------|----------------------------------------|------------------------------------------|-------------------------------------------------|---------------------------------------------------------|--------------------------------|
| Wire Size |                 | Studsize |     | Standard Part Number | Width (W) |       | Length (L) |       | Color  | Wire Barrel Min. Inside Dia |       | Also available in <sup>4</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good) | SDE<br>Die Set<br>(Premium)                             | SDE<br>Die Set<br>(Commercial) |
| AWG       | mm <sup>2</sup> | U.S.     | mm  |                      | inch      | mm    | inch       | mm    |        | inch                        | mm    | Tape &<br>Reel                 | Small<br>Pack |              |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 8        | M4  | 34853                | .375      | 9.53  | 1.098      | 27.89 | Yellow | .250                        | 6.35  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 10       |     | 330518               | .312      | 7.92  | 1.052      | 26.72 | Yellow | .230                        | 5.84  | ✓                              | -             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 10       |     | 34854                | .375      | 9.53  | 1.098      | 27.89 | Yellow | .250                        | 6.35  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 |          | M5  | 160292               | .374      | 9.50  | 1.098      | 27.90 | Yellow | .252                        | 6.40  | ✓                              | -             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 1/4      | M6  | 165035               | .500      | 12.70 | 1.184      | 30.07 | Yellow | .267                        | 6.78  | ✓                              | -             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 1/4      | M6  | 34855                | .531      | 13.49 | 1.327      | 33.71 | Yellow | .250                        | 6.35  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 5/16     | M8  | 34856                | .531      | 13.49 | 1.327      | 33.71 | Yellow | .250                        | 6.35  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 |          | M8  | 160296               | .500      | 12.70 | 1.185      | 30.10 | Yellow | .248                        | 6.30  | -                              | -             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 3/8      |     | 34173                | .593      | 15.06 | 1.421      | 36.09 | Yellow | .230                        | 5.84  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 |          | M10 | 160300               | .594      | 15.09 | 1.433      | 36.40 | Yellow | .248                        | 6.30  | -                              | -             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |                 | 1/2      | M12 | 34837                | .750      | 19.05 | 1.594      | 40.49 | Yellow | .250                        | 6.35  | ✓                              | ✓             | A            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 8         | 6.64 - 10.50    | 8        | M4  | 52041                | .478      | 12.14 | 1.586      | 40.28 | Red    | .360                        | 9.14  | ✓                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 10       |     | 52263                | .431      | 10.95 | 1.556      | 39.52 | Red    | .360                        | 9.14  | ✓                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 10       |     | 52263-1              | .431      | 10.95 | 1.576      | 40.03 | Red    | .330                        | 8.38  | ✓                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/4      | M6  | 52041-1              | .478      | 12.14 | 1.586      | 40.28 | Red    | .360                        | 9.14  | ✓                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 5/16     | M8  | 52291                | .587      | 14.91 | 1.696      | 43.08 | Red    | .360                        | 9.14  | ✓                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 3/8      |     | 52291-1              | .587      | 14.91 | 1.696      | 43.08 | Red    | .360                        | 9.14  | ✓                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/2      | M12 | 52262-1              | .875      | 22.23 | 1.860      | 47.24 | Red    | .330                        | 8.38  | -                              | -             | A            |                                        |                                          |                                                 |                                                         |                                |
| 6         | 10.5 - 16.8     | 8        | M4  | 52042-2              | .500      | 12.70 | 1.869      | 47.47 | Blue   | .436                        | 11.07 | -                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 10       |     | 52265                | .468      | 11.89 | 1.719      | 43.66 | Blue   | .436                        | 11.07 | ✓                              | ✓             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/4      | M6  | 52042-1              | .500      | 12.70 | 1.869      | 47.47 | Blue   | .436                        | 11.07 | -                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 5/16     | M8  | 52264                | .625      | 15.88 | 1.906      | 48.41 | Blue   | .450                        | 11.43 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 3/8      |     | 52264-1              | .625      | 15.88 | 1.906      | 48.41 | Blue   | .450                        | 11.43 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/2      | M12 | 52350                | .815      | 20.70 | 1.851      | 47.02 | Blue   | .436                        | 11.07 | -                              | -             | C            |                                        |                                          |                                                 |                                                         |                                |
| 4         | 16.8 - 26.7     | 10       |     | 52043-2              | .546      | 13.87 | 1.948      | 49.48 | Yellow | .450                        | 11.43 | ✓                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/4      | M6  | 52043-3              | .546      | 13.87 | 1.948      | 49.48 | Yellow | .450                        | 11.43 | ✓                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 5/16     | M8  | 52266                | .679      | 17.25 | 2.014      | 51.16 | Yellow | .515                        | 13.08 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 3/8      |     | 52266-4              | .679      | 17.25 | 2.014      | 51.16 | Yellow | .450                        | 11.43 | ✓                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
| 2         | 26.7 - 42.4     | 1/4      | M6  | 52267-1              | .675      | 17.15 | 2.071      | 52.60 | Red    | .560                        | 14.22 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 1/4      | M6  | 52267                | .675      | 17.15 | 2.071      | 52.60 | Red    | .632                        | 16.05 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 5/16     | M8  | 52044-1              | .711      | 18.06 | 2.089      | 53.06 | Red    | .632                        | 16.05 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |
|           |                 | 3/8      |     | 52044-2              | .711      | 18.06 | 2.089      | 53.06 | Red    | .632                        | 16.05 | -                              | -             | B            |                                        |                                          |                                                 |                                                         |                                |

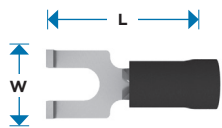


**Multiple Studsize Ring Tongue**

|           |                 |          |           |                      |           |      |            |       |       |                             |      |                                |               |              | Manual Hand Tools                      |                                          |                                                 | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                                |
|-----------|-----------------|----------|-----------|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|--------------|----------------------------------------|------------------------------------------|-------------------------------------------------|---------------------------------------------------------|--------------------------------|
| Wire Size |                 | Studsize |           | Standard Part Number | Width (W) |      | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good) | SDE<br>Die Set<br>(Premium)                             | SDE<br>Die Set<br>(Commercial) |
| AWG       | mm <sup>2</sup> | U.S.     | mm        |                      | inch      | mm   | inch       | mm    |       | inch                        | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                        |                                          |                                                 |                                                         |                                |
| 22 - 16   | 0.26 - 1.65     | 6 - 10   | M3.5 - M5 | 54774-1              | .325      | 8.26 | .969       | 24.61 | Red   | .125                        | 3.18 | ✓                              | -             |              | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 16 - 14   | 1.04 - 2.62     | 6 - 10   | M3.5 - M5 | 54775-1              | .325      | 8.26 | .969       | 24.61 | Blue  | .145                        | 3.68 | ✓                              | -             |              | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |



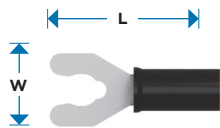
| Spades: Standard Spade |             |          |      |                      |           |       |            |       |       |                             |      |                                |            |                   |                                        |                                          |                                                         |                             |                                |
|------------------------|-------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|------------|-------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------|-----------------------------|--------------------------------|
|                        |             |          |      |                      |           |       |            |       |       |                             |      |                                |            | Manual Hand Tools |                                        |                                          | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                             |                                |
| Wire Size              |             | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |            | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good)         | SDE<br>Die Set<br>(Premium) | SDE<br>Die Set<br>(Commercial) |
| AWG                    | mm²         | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |       | inch                        | mm   | Tape & Reel                    | Small Pack |                   |                                        |                                          |                                                         |                             |                                |
| 22-16                  | 0,26 - 1,65 | 4        |      | 165004               | .218      | 5.54  | .784       | 19.91 | ●     | .160                        | 4.06 | -                              | -          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 6        | M3.5 | 327043               | .250      | 6.35  | .858       | 21.79 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 6        | M3.5 | 320665               | .297      | 7.54  | .765       | 19.43 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 8        | M4   | 34155                | .375      | 9.53  | .920       | 23.37 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 8        | M4   | 165008               | .280      | 7.11  | .831       | 21.11 | ●     | .142                        | 3.61 | ✓                              | -          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 10       |      | 34156                | .375      | 9.53  | .920       | 23.37 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
| 16-14                  | 1,04 - 2,62 | 6        | M3.5 | 322994               | .297      | 7.54  | .765       | 19.43 | ●     | .145                        | 3.68 | ✓                              | ✓          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 6        | M3.5 | 34165                | .385      | 9.78  | .920       | 23.37 | ●     | .170                        | 4.32 | -                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 8        | M4   | 326741               | .297      | 7.54  | .765       | 19.43 | ●     | .170                        | 4.32 | ✓                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 8        | M4   | 34166                | .385      | 9.78  | .920       | 23.37 | ●     | .170                        | 4.32 | ✓                              | ✓          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 8        | M4   | 165012               | .250      | 6.40  | .788       | 20.00 | ●     | .195                        | 4.95 | ✓                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 10       |      | 34167                | .385      | 9.78  | .920       | 23.37 | ●     | .170                        | 4.32 | ✓                              | ✓          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             |          | M5   | 160171               | .385      | 9.78  | .933       | 23.70 | ●     | .193                        | 4.90 | -                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
| 12-10                  | 2,62 - 6,64 |          | M4.5 | 165015               | .315      | 8.00  | 1.238      | 31.45 | ●     | .252                        | 6.40 | -                              | -          |                   | 59239-4                                | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 10       |      | 34176                | .406      | 10.31 | 1.095      | 27.81 | ●     | .230                        | 5.84 | ✓                              | ✓          |                   | 59239-4                                | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                        |             | 1/4      | M6   | 165019               | .530      | 13.46 | 1.307      | 33.19 | ●     | .252                        | 6.40 | -                              | -          |                   | 59239-4                                | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |



| Spades: Flanged Spade |             |          |      |                      |           |       |            |       |       |                             |      |                                |            |                   |                                        |                                          |                                                         |                             |                                |
|-----------------------|-------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|------------|-------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------|-----------------------------|--------------------------------|
|                       |             |          |      |                      |           |       |            |       |       |                             |      |                                |            | Manual Hand Tools |                                        |                                          | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                             |                                |
| Wire Size             |             | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |            | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good)         | SDE<br>Die Set<br>(Premium) | SDE<br>Die Set<br>(Commercial) |
| AWG                   | mm²         | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |       | inch                        | mm   | Tape & Reel                    | Small Pack |                   |                                        |                                          |                                                         |                             |                                |
| 22-16                 | 0,26 - 1,65 | 6        | M3.5 | 322249               | .296      | 7.52  | .749       | 19.02 | ●     | .140                        | 3.56 | ✓                              | -          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                       |             | 8        | M4   | 324169               | .416      | 10.57 | .842       | 21.39 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                       |             | 10       |      | 328516               | .296      | 7.52  | .749       | 19.02 | ●     | .140                        | 3.56 | ✓                              | ✓          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
| 16-14                 | 1,04 - 2,62 | 6        | M3.5 | 324165               | .294      | 7.47  | .749       | 19.02 | ●     | .170                        | 4.32 | ✓                              | ✓          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
|                       |             | 8        | M4   | 53874-1              | .284      | 7.21  | .749       | 19.02 | ●     | .170                        | 4.32 | ✓                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |

**Spades: Flanged Spade (continued)**

|           |             |          |      |                      |           |       |            |       |       |                             |      |                                |            | Manual Hand Tools |                              |                                | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                       |                          |
|-----------|-------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|------------|-------------------|------------------------------|--------------------------------|---------------------------------------------------------|-----------------------|--------------------------|
| Wire Size |             | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |            | Re-marks          | Certi-Crimp Hand Tool (best) | Tetra-Crimp Hand Tool (better) | Pro-Crimper (SDE) Hand Tool (good)                      | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG       | mm²         | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |       | inch                        | mm   | Tape & Reel                    | Small Pack |                   |                              |                                |                                                         |                       |                          |
|           |             |          | M5   | 160213               | .294      | 7.47  | .749       | 19.02 | ●     | .173                        | 4.39 | -                              | -          |                   | 47387                        | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |
| 12-10     | 2,62 - 6,64 | 6        | M3.5 | 324581               | .296      | 7.52  | 1.017      | 25.83 | ●     | .230                        | 5.84 | ✓                              | ✓          |                   | 59239-4                      | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |
|           |             | 8        | M4   | 324172               | .416      | 10.57 | 1.017      | 25.83 | ●     | .230                        | 5.84 | ✓                              | ✓          |                   | 59239-4                      | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |
|           |             | 10       |      | 52856                | .416      | 10.57 | 1.017      | 25.83 | ●     | .250                        | 6.35 | ✓                              | -          |                   | 59239-4                      | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |

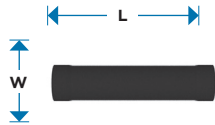


**Short Spring Spade**

|           |             |          |      |                      |           |       |            |       |       |                             |      |                                |               |              | Manual Hand Tools                      |                                          |                                                 | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                                |
|-----------|-------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|--------------|----------------------------------------|------------------------------------------|-------------------------------------------------|---------------------------------------------------------|--------------------------------|
| Wire Size |             | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good) | SDE<br>Die Set<br>(Premium)                             | SDE<br>Die Set<br>(Commercial) |
| AWG       | mm²         | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |       | inch                        | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                        |                                          |                                                 |                                                         |                                |
| 22-16     | 0,26 - 1,65 | 4        | M2.5 | 52947                | .203      | 5.16  | .811       | 20.60 | ●     | .140                        | 3.56 | ✓                              | -             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 5        | M3   | 52948                | .250      | 6.35  | .811       | 20.60 | ●     | .140                        | 3.56 | ✓                              | ✓             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 6        | M3.5 | 52949                | .250      | 6.35  | .811       | 20.60 | ●     | .140                        | 3.56 | ✓                              | ✓             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 6        | M3.5 | 53240-1              | .234      | 5.94  | .811       | 20.60 | ●     | .140                        | 3.56 | ✓                              | -             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 8        | M4   | 53241-1              | .244      | 6.20  | .872       | 22.15 | ●     | .140                        | 3.56 | ✓                              | -             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 10       |      | 53242-1              | .294      | 7.47  | .920       | 23.37 | ●     | .140                        | 3.56 | ✓                              | -             | 2            | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 16-14     | 1,04 - 2,62 | 6        | M3.5 | 52955                | .250      | 6.35  | .811       | 20.60 | ●     | .170                        | 4.32 | ✓                              | ✓             | 2            | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 8        | M4   | 53244-1              | .244      | 6.20  | .872       | 22.15 | ●     | .170                        | 4.32 | ✓                              | ✓             | 2            | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 10       |      | 52957                | .406      | 10.31 | .920       | 23.37 | ●     | .170                        | 4.32 | ✓                              | ✓             | 2            | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 12-10     | 2,62 - 6,64 | 6        | M3.5 | 52961                | .250      | 6.35  | .959       | 24.36 | ●     | .200                        | 5.08 | ✓                              | -             | 2            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 8        | M4   | 53247-1              | .312      | 7.92  | 1.052      | 26.72 | ●     | .250                        | 6.35 | ✓                              | ✓             | 2            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|           |             | 10       |      | 52963-2              | .406      | 10.31 | 1.100      | 27.94 | ●     | .250                        | 6.35 | ✓                              | -             | 2            | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |

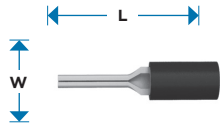
**Long Spring Spade**

|       |             |    |      |       |      |      |       |       |   |      |      |   |   |   |         |         |         |           |         |
|-------|-------------|----|------|-------|------|------|-------|-------|---|------|------|---|---|---|---------|---------|---------|-----------|---------|
| 22-16 | 0,26 - 1,65 | 6  | M3.5 | 52453 | .250 | 6.35 | .945  | 24.00 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
|       |             | 8  | M4   | 52454 | .281 | 7.14 | .991  | 25.17 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
|       |             | 10 |      | 52455 | .343 | 8.71 | 1.017 | 25.83 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1,04 - 2,62 | 6  | M3.5 | 52463 | .250 | 6.35 | .945  | 24.00 | ● | .170 | 4.32 | ✓ | - | 2 | 47387   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
|       |             | 8  | M4   | 52464 | .281 | 7.14 | .991  | 25.17 | ● | .170 | 4.32 | ✓ | ✓ | 2 | 47387   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
|       |             | 10 |      | 52465 | .343 | 8.71 | 1.017 | 25.83 | ● | .170 | 4.32 | ✓ | - | 2 | 47387   | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 | 2,62 - 6,64 | 8  | M4   | 52474 | .375 | 9.53 | 1.174 | 29.82 | ● | .200 | 5.08 | ✓ | - | 2 | 59239-4 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
|       |             | 10 |      | 52475 | .375 | 9.53 | 1.219 | 30.96 | ● | .200 | 5.08 | ✓ | - | 2 | 59239-4 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |

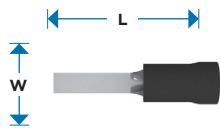


| Butt Splices      |             |          |    |                      |           |    |            |       |       |                             |           |                    |            |                   |                                        |                                          |                                                         |                             |                                |
|-------------------|-------------|----------|----|----------------------|-----------|----|------------|-------|-------|-----------------------------|-----------|--------------------|------------|-------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------|-----------------------------|--------------------------------|
|                   |             |          |    |                      |           |    |            |       |       |                             |           |                    |            | Manual Hand Tools |                                        |                                          | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                             |                                |
| Wire Size         |             | Studsize |    | Standard Part Number | Width (W) |    | Length (L) |       | Color | Wire Barrel Min. Inside Dia |           | Also available in* |            | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good)         | SDE<br>Die Set<br>(Premium) | SDE<br>Die Set<br>(Commercial) |
| AWG               | mm²         | U.S.     | mm |                      | inch      | mm | inch       | mm    |       | inch                        | mm        | Tape & Reel        | Small Pack |                   |                                        |                                          |                                                         |                             |                                |
| 26-22             | 0,10-0,41   | n.a.     |    | 321026               | n.a.      |    | .620       | 15.75 | ●     | .080                        | 2.03      | -                  | ✓          |                   | 46121                                  |                                          |                                                         |                             | 58423-1                        |
| 22-16             | 0,26 - 1,65 | n.a.     |    | 34067                | n.a.      |    | 1.065      | 27.05 | ●     | .120                        | 3.05      | ✓                  | ✓          |                   | 45160                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34070                | n.a.      |    | 1.076      | 27.33 | ●     | .140                        | 3.56      | ✓                  | -          |                   | 45160                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34243                | n.a.      |    | 1.065      | 27.05 | ●     | .170                        | 4.32      | ✓                  | ✓          |                   | 45160                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34203                | n.a.      |    | 1.065      | 27.05 | ●     | .083x.171                   | 2.11x4.34 | -                  | -          | 1                 | 45160                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
| 16-14             | 1,04 - 2,62 | n.a.     |    | 34068                | n.a.      |    | 1.065      | 27.05 | ●     | .140                        | 3.56      | ✓                  | ✓          |                   | 45575-1                                |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34071                | n.a.      |    | 1.065      | 27.05 | ●     | .170                        | 4.32      | ✓                  | ✓          |                   | 45575-1                                |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 35244                | n.a.      |    | 1.065      | 27.05 | ●     | .215                        | 5.46      | ✓                  | ✓          |                   | 45575-1                                |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34204                | n.a.      |    | 1.065      | 27.05 | ●     | .135x.245                   | 3.43x6.22 | ✓                  | ✓          | 1                 | 45575-1                                |                                          | 58433-3                                                 |                             | 58423-1                        |
| 12-10             | 2,62 - 6,64 | n.a.     |    | 34069                | n.a.      |    | 1.160      | 29.46 | ●     | .200                        | 5.08      | -                  | -          |                   | 59489                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34072                | n.a.      |    | 1.160      | 29.46 | ●     | .230                        | 5.84      | ✓                  | ✓          |                   | 59489                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
|                   |             | n.a.     |    | 34945                | n.a.      |    | 1.160      | 29.46 | ●     | .250                        | 6.35      | ✓                  | ✓          |                   | 59489                                  |                                          | 58433-3                                                 |                             | 58423-1                        |
| Parrallel Splices |             |          |    |                      |           |    |            |       |       |                             |           |                    |            |                   |                                        |                                          |                                                         |                             |                                |
| 22-16             | 0,26 - 1,65 | n.a.     |    | 34131                | n.a.      |    | .760       | 19.30 | ●     | .120                        | 3.05      | -                  | -          |                   | 45449                                  |                                          |                                                         |                             | 58423-1                        |
|                   |             | n.a.     |    | 34132                | n.a.      |    | .760       | 19.30 | ●     | .140                        | 3.56      | -                  | -          |                   | 45449                                  |                                          |                                                         |                             | 58423-1                        |
| 16-14             | 1,04 - 2,62 | n.a.     |    | 34133                | n.a.      |    | .760       | 19.30 | ●     | .140                        | 3.56      | -                  | -          |                   | 45450                                  |                                          |                                                         |                             | 58423-1                        |
|                   |             | n.a.     |    | 34134                | n.a.      |    | .760       | 19.30 | ●     | .170                        | 4.32      | -                  | -          |                   | 45450                                  |                                          |                                                         |                             | 58423-1                        |
| 12-10             | 2,62 - 6,64 | n.a.     |    | 34135                | n.a.      |    | .843       | 21.41 | ●     | .200                        | 5.08      | -                  | -          |                   | 59270                                  |                                          |                                                         |                             | 58423-1                        |
|                   |             | n.a.     |    | 34136                | n.a.      |    | .870       | 22.10 | ●     | .230                        | 5.84      | -                  | -          |                   | 59270                                  |                                          |                                                         |                             | 58423-1                        |

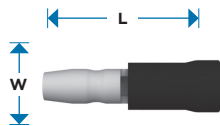




| Wire Pins (formed) |             |          |      |                      |           |      |            |       |       |                             |      |                    |            |              |                                        |                                          |                                                 |                                                         |                                |
|--------------------|-------------|----------|------|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------|------------|--------------|----------------------------------------|------------------------------------------|-------------------------------------------------|---------------------------------------------------------|--------------------------------|
|                    |             |          |      |                      |           |      |            |       |       |                             |      |                    |            |              | Manual Hand Tools                      |                                          |                                                 | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                                |
| Wire Size          |             | Studsize |      | Standard Part Number | Width (W) |      | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in* |            | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good) | SDE<br>Die Set<br>(Premium)                             | SDE<br>Die Set<br>(Commercial) |
| AWG                | mm²         | U.S.     | mm   |                      | inch      | mm   | inch       | mm    |       | inch                        | mm   | Tape & Reel        | Small Pack |              |                                        |                                          |                                                 |                                                         |                                |
| 22-16              | 0,26 - 1,65 | n.a.     | 6.71 | 165143               | .071      | 1.80 | .807       | 20.50 | ●     | .146                        | 3.71 | -                  | -          |              | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|                    |             | n.a.     | 9.91 | 165167               | .071      | 1.80 | .937       | 23.80 | ●     | .146                        | 3.71 | -                  | -          |              | 47386                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 16-14              | 1,04 - 2,62 | n.a.     | 6.71 | 165075               | .071      | 1.80 | .815       | 20.70 | ●     | .193                        | 4.90 | -                  | -          |              | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
|                    |             | n.a.     | 9.91 | 165171               | .071      | 1.80 | .933       | 23.70 | ●     | .193                        | 4.90 | -                  | -          |              | 47387                                  | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |
| 12-10              | 2,62 - 6,64 | n.a.     | 9.91 | 165085               | .102      | 2.60 | 1.150      | 29.21 | ●     | .252                        | 6.40 | ✓                  | -          |              | 59239-4                                | 59824-1                                  | 58433-3                                         | 2063030-1                                               | 58423-1                        |



| Wire Pins (flat) |             |          |      |                      |           |      |            |       |       |                             |      |                                |            |                   |                                        |                                          |                                                         |                             |                                |
|------------------|-------------|----------|------|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------------------|------------|-------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------|-----------------------------|--------------------------------|
|                  |             |          |      |                      |           |      |            |       |       |                             |      |                                |            | Manual Hand Tools |                                        |                                          | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                             |                                |
| Wire Size        |             | Studsize |      | Standard Part Number | Width (W) |      | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |            | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>(best) | Tetra-<br>Crimp<br>Hand Tool<br>(better) | Pro-<br>Crimper<br>(SDE)<br>Hand Tool<br>(good)         | SDE<br>Die Set<br>(Premium) | SDE<br>Die Set<br>(Commercial) |
| AWG              | mm²         | U.S.     | mm   |                      | inch      | mm   | inch       | mm    |       | inch                        | mm   | Tape & Reel                    | Small Pack |                   |                                        |                                          |                                                         |                             |                                |
| 22-16            | 0,26 - 1,65 | n.a.     | 8.10 | 131443               | .116      | 2.95 | .906       | 23.00 | ●     | .142                        | 3.60 | -                              | -          |                   | 47386                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
| 16-14            | 1,04 - 2,62 | n.a.     | 8.10 | 131444               | .116      | 2.95 | .906       | 23.00 | ●     | .193                        | 4.90 | -                              | -          |                   | 47387                                  | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |
| 12-10            | 2,62 - 6,64 | n.a.     | 8.40 | 131445               | .165      | 4.20 | 1.157      | 29.40 | ●     | .252                        | 6.40 | -                              | -          |                   | 59239-4                                | 59824-1                                  | 58433-3                                                 | 2063030-1                   | 58423-1                        |



| Shur Plugs |             |          |    |                      |           |      |            |       |       |                             |      |                                |            |                   |                              |                                |                                                         |                       |                          |
|------------|-------------|----------|----|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------------------|------------|-------------------|------------------------------|--------------------------------|---------------------------------------------------------|-----------------------|--------------------------|
|            |             |          |    |                      |           |      |            |       |       |                             |      |                                |            | Manual Hand Tools |                              |                                | Dies for Powered Tools<br>(see Note 1 for Tool Options) |                       |                          |
| Wire Size  |             | Studsize |    | Standard Part Number | Width (W) |      | Length (L) |       | Color | Wire Barrel Min. Inside Dia |      | Also available in <sup>4</sup> |            | Re-marks          | Certi-Crimp Hand Tool (best) | Tetra-Crimp Hand Tool (better) | Pro-Crimper (SDE) Hand Tool (good)                      | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG        | mm²         | U.S.     | mm |                      | inch      | mm   | inch       | mm    |       | inch                        | mm   | Tape & Reel                    | Small Pack |                   |                              |                                |                                                         |                       |                          |
| 16-14      | 1,04 - 2,62 | n.a.     |    | 324227               | .156      | 3.96 | .800       | 20.32 | ●     | .193                        | 4.90 | -                              | -          | 3                 | 47387                        | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |
|            |             | n.a.     |    | 324228               | .180      | 4.57 | .773       | 19.63 | ●     | .193                        | 4.90 | -                              | -          | 3                 | 47387                        | 59824-1                        | 58433-3                                                 | 2063030-1             | 58423-1                  |

**REMARKS**

**A, B, C** Code referring to shape of terminal, see on top of Ring Tongue Terminals chapter (page 2)

1. Oval expansion
2. Brass per ASTM B-36
3. Receptacles only available in PIDG version. Part numbers 165399-1 and 165429-1 are preferred
4. – Standard Part Number also available in Tape & Reel and/or Small Pack  
– Standard Part Number is not available in Tape & Reel and/or Small Pack

For all remarks and additional information see Customer Drawing on te.com

**NOTE 1**

**SDE die sets can be used with the following powered tools:**

1. 1.75 Ton Battery Tools 2217480-1 or 2217480-2
2. Pro-Crimper Adapter 679304-1 for the 626 Pneumatic Tool System
3. AT-300 Bench Terminator with SDE Adapter 1673663-2
4. AT-SC MK II Pneumatic Safety Crimping Machine 1-528050-0 with SDE Die Holder 2-525051-8

**FREQUENTLY ASKED QUESTIONS TOOLING****Can wires be combined in PLASTI-GRIP terminals?**

Yes they can, as long total CMA and insulation diameter fall within specification.

**Are TE PLASTI-GRIP terminals MIL specified?**

No, PLASTI-GRIP terminals are not Military qualified; Most PIDG and SOLISTRAND terminals are qualified to SAE AS7928.

**What terminal should be used in applications above 105 Celsius?**

Use STRATO-THERM terminals (catalog 82011).

**Why can PLASTI-GRIP terminals handle 600V and PIDG terminals just 300V?**

There is no additional metallic sleeve to support the crimp (see picture).

**Why is there no crimp height given for PLASTI-GRIP terminals?**

It is the geometry of the TE crimping tools which guarantees the perfect crimp on PLASTI-GRIP terminals.



1. The conical sleeve serves for easier conductor insertion.
2. The coloured insulating sleeve facilitates assignment to the respective wire range and crimp tooling.
3. Serrations inside the wire sleeve ensure high tensile strength and conductivity.
4. The insulating sleeve protects and supports the wire after crimping. The widened insulating sleeve allows a large number of insulation diameters.

## UNDERSTAND YOUR TE TOOLING OPTIONS

### Commerical Portable Tools



58433-3 - PRO-CRIMPER  
Commercial Hand Tool  
(crimps most 26-10  
AWG SOLISTRAND)



SDE Micro  
Battery Tool



SDE  
Die Sets

### Premium Portable Tools



CERTI Crimp HHHT



CERTI Crimp DAHT



CERTI Crimp 1.5  
TOA Battery Tool

### Hydraulic Tooling



Shenk Dies



U Dies



Medium Duty Crimp Heads



Battery Tools



Hydraulic Pump

<http://tooling.te.com>

For questions about our connectivity solutions, please go to [te.com](http://te.com).

## **[www.te.com/products/industrial-terminals-splices](http://www.te.com/products/industrial-terminals-splices)**

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