

# **PIDG TERMINALS & SPLICES**

Quick Reference Guide

## FEATURES AND BENEFITS

- Made of high conductivity copper; tin-plated for optimal corrosion protection
- Copper sleeve for vibration resistance and improved wire insulation support
- Body has inner serrations for maximum electrical contact and tensile strength
- Insulation sleeves are color-coded by wire size to the corresponding TE Connectivity (TE) tooling for easy identification and termination
- Readily available at distributors in small packages or bulk quantities
- UL/CSA listed and Mil-Spec approved
- Operating temperature 105°C; operating voltage 300V

# 300V

Operating Voltage

# 105°

Max Operating  
Temperature (in C)

# MIL

MIL-SPEC Approval

## PRODUCT APPLICATIONS

- Instruments/Control
- Lighting
- Power Supplies
- Panel Boxes
- Transportation
- Lifting equipment
- Motors
- Aerospace
- Appliances



# WHAT'S INSIDE

TE Connectivity's PIDG terminals are designed for uniform reliability in the harshest circuit environments, especially where high vibration and wire movement are factors. They consist of a nylon or PVC insulated body, plus a metal sleeve that crimps to the wire insulation for added support. The wire barrel design is vibration resistant, and supports the wire to bend in any direction without damaging the wire insulation or conductor. Millions of PIDG terminals and splices are still in the field many years after installation; a testament to the rigorous testing and research that went into their design and manufacturing. Many PIDG terminals meet or exceed the requirements of SAE AS7928, Type II, Class 1 and 2.



## MATERIAL

**Insulation:** Nylon, UL 94V-2

**Terminal Body:** Copper per ASTM B-152

**Plating:** Tin per ASTM B-545

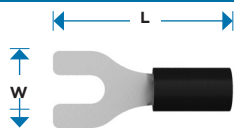
**Metallic Sleeve:** Copper per ASTM B-152

### Ring Tongue Terminals

|           |             |          |      |                      |           |       |            |       |        |                           |      |                                |               |              | Manual Hand Tools                       |                                    |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-------------|----------|------|----------------------|-----------|-------|------------|-------|--------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |             | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>8</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE Die Set<br>(Commercial) |
| AWG       | mm²         | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |        | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                         |                                    |                                       |                                                                     |                             |
| 26 - 24   | 0,12 - 0,24 | 2        | M2   | 54310-1              | .203      | 5,16  | .739       | 18,77 | Yellow | .105                      | 2,67 |                                |               | 0,6          | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 4        | M2.5 | 52189                | .203      | 5,16  | .736       | 18,69 | Yellow | .105                      | 2,67 |                                |               | 0,6          | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 6        | M3.5 | 53073                | .250      | 6,35  | .792       | 20,12 | Yellow | .105                      | 2,67 |                                |               | 0,6          | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 8        | M4   | 54311-1              | .281      | 7,14  | .814       | 20,68 | Yellow | .105                      | 2,67 |                                |               | 0,6          | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 10       |      | 54312-1              | .312      | 7,92  | .868       | 22,05 | Yellow | .105                      | 2,67 | ✓                              |               | 0,6          | 46121                                   |                                    |                                       |                                                                     |                             |
| 26 - 22   | 0,12 - 0,41 | 0        |      | 321013               | .140      | 3,56  | .525       | 13,34 | Yellow | .082                      | 2,08 |                                |               |              | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 2        | M2   | 323912               | .140      | 3,56  | .525       | 13,34 | Yellow | .082                      | 2,08 | ✓                              | ✓             |              | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 2        | M2   | 329951               | .140      | 3,56  | .615       | 15,62 | Yellow | .082                      | 2,08 |                                |               |              | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 4        | M2.5 | 323914               | .203      | 5,16  | .646       | 16,41 | Yellow | .082                      | 2,08 | ✓                              | ✓             | 6            | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 6        | M3.5 | 326875               | .250      | 6,35  | .740       | 18,80 | Yellow | .082                      | 2,08 | ✓                              | ✓             | 6            | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 6        | M3.5 | 323915               | .203      | 5,16  | .646       | 16,41 | Yellow | .082                      | 2,08 | ✓                              | ✓             |              | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 8        | M4   | 323916               | .250      | 6,35  | .740       | 18,80 | Yellow | .082                      | 2,08 | ✓                              | ✓             | 6            | 46121                                   |                                    |                                       |                                                                     |                             |
|           |             | 10       |      | 324075               | .250      | 6,35  | .765       | 19,43 | Yellow | .082                      | 2,08 | ✓                              | ✓             | 6            | 46121                                   |                                    |                                       |                                                                     |                             |
| 24 - 20   | 0,16 - 0,65 | 2        | M2   | 329636               | .106      | 4,06  | .589       | 14,96 | White  | .100                      | 2,54 |                                |               |              | 47907-1                                 |                                    |                                       |                                                                     |                             |
|           |             | 4        | M2.5 | 323985               | .281      | 7,14  | .774       | 19,66 | White  | .100                      | 2,54 |                                |               |              | 47907-1                                 |                                    |                                       |                                                                     |                             |
|           |             | 6        | M3.5 | 323986               | .281      | 7,14  | .774       | 19,66 | White  | .100                      | 2,54 | ✓                              |               |              | 47907-1                                 |                                    |                                       |                                                                     |                             |
|           |             | 8        | M4   | 323989               | .312      | 7,92  | .821       | 20,85 | White  | .100                      | 2,54 | ✓                              |               |              | 47907-1                                 |                                    |                                       |                                                                     |                             |
|           |             | 10       |      | 323990               | .312      | 7,92  | .821       | 20,85 | White  | .100                      | 2,54 | ✓                              |               |              | 47907-1                                 |                                    |                                       |                                                                     |                             |
| 22 - 16   | 0,26 - 1,65 | 2        | M2   | 328657               | .218      | 5,54  | .672       | 17,07 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 4        | M2.5 | 320553               | .218      | 5,54  | .672       | 17,07 | Red    | .125                      | 3,18 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 4        | M2.5 | 31880                | .218      | 5,54  | .672       | 17,07 | Red    | .140                      | 3,65 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 4        | M2.5 | 323758               | .250      | 6,35  | .844       | 21,44 | Red    | .125                      | 3,18 | ✓                              |               |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 4        | M2.5 | 330648               | .250      | 6,35  | .844       | 21,44 | Red    | .140                      | 3,56 | ✓                              |               |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 6        | M3.5 | 51863                | .250      | 6,35  | .782       | 19,86 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 6        | M3.5 | 36151                | .281      | 7,14  | .797       | 20,24 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 6        | M3.5 | 36152                | .281      | 7,14  | .797       | 20,24 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 6        | M3.5 | 36149                | .218      | 5,54  | .672       | 17,07 | Red    | .125                      | 3,18 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 6        | M3.5 | 36150                | .218      | 5,54  | .672       | 17,07 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 8        | M4   | 320554               | .281      | 7,14  | .797       | 20,24 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 8        | M4   | 31886                | .281      | 7,14  | .797       | 20,24 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 8        | M4   | 320551               | .312      | 7,92  | .844       | 21,44 | Red    | .125                      | 3,18 | ✓                              |               | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 8        | M4   | 31890                | .312      | 7,92  | .844       | 21,44 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 10       |      | 320552               | .281      | 7,14  | .797       | 20,24 | Red    | .125                      | 3,18 | ✓                              |               |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 10       |      | 31887                | .281      | 7,14  | .797       | 20,24 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 10       |      | 36153                | .312      | 7,92  | .844       | 21,44 | Red    | .125                      | 3,18 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 10       |      | 36154                | .312      | 7,92  | .844       | 21,44 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             |          | M5   | 130008               | .312      | 7,92  | .850       | 21,60 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 1/4      | M6   | 320571               | .469      | 11,91 | 1.078      | 27,38 | Red    | .125                      | 3,18 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 1/4      | M6   | 31894                | .469      | 11,91 | 1.078      | 27,38 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             |          | M6   | 130046               | .469      | 11,91 | 1.083      | 27,50 | Red    | .140                      | 3,56 |                                | ✓             |              | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 5/16     | M8   | 320572               | .469      | 11,91 | 1.078      | 27,38 | Red    | .125                      | 3,18 | ✓                              |               | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 5/16     | M8   | 31895                | .469      | 11,91 | 1.078      | 27,38 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 3/8      |      | 320573               | .531      | 13,49 | 1.218      | 30,94 | Red    | .125                      | 3,18 | ✓                              |               | 6            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 3/8      |      | 31897                | .531      | 13,49 | 1.218      | 30,94 | Red    | .140                      | 3,56 | ✓                              | ✓             | 6            | 47380                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |             | 1/2      | M12  | 328975               | .713      | 18,11 | 1.293      | 32,84 | Red    | .125                      | 3,18 |                                | ✓             | 6            | 47380                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |

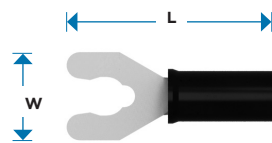
**Ring Tongue Terminals (continued)**

|           |                 |          |      |                      |           |       |            |       |        |                           |      |                                |               |              | Manual Hand Tools                       |                                    |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-----------------|----------|------|----------------------|-----------|-------|------------|-------|--------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |                 | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>8</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE Die Set<br>(Commercial) |
| AWG       | mm <sup>2</sup> | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |        | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                         |                                    |                                       |                                                                     |                             |
| 16-14     | 1,04 - 2,62     | 2        | M2   | 324993               | .180      | 4,57  | .668       | 16,97 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 4        | M2.5 | 324159               | .250      | 6,35  | .703       | 17,86 | Blue   | .150                      | 3,81 | ✓                              |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 4        | M2.5 | 328996               | .250      | 6,35  | .703       | 17,86 | Blue   | .170                      | 4,32 |                                |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 320561               | .250      | 6,35  | .703       | 17,86 | Blue   | .150                      | 3,81 | ✓                              |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 320619               | .250      | 6,35  | .703       | 17,86 | Blue   | .170                      | 4,32 |                                |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 326882               | .312      | 7,92  | .813       | 20,65 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 51864                | .312      | 7,92  | .844       | 21,44 | Blue   | .150                      | 3,81 | ✓                              | ✓             | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 51864-1              | .312      | 7,92  | .844       | 21,44 | Blue   | .150                      | 3,81 | ✓                              | ✓             | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 320560               | .343      | 8,71  | .859       | 21,82 | Blue   | .150                      | 3,81 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 320565               | .343      | 8,71  | .859       | 21,82 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 320574               | .343      | 8,71  | .859       | 21,82 | Blue   | .150                      | 3,81 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 36160                | .343      | 8,71  | .859       | 21,82 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 |          | M5   | 130090               | .343      | 8,71  | .864       | 21,94 | Blue   | .150                      | 3,80 | ✓                              |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 |          | M5   | 130094               | .343      | 8,71  | .864       | 21,94 | Blue   | .170                      | 4,30 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/4      | M6   | 320563               | .469      | 11,91 | 1.078      | 27,38 | Blue   | .150                      | 3,81 | ✓                              | ✓             | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/4      | M6   | 321045               | .469      | 11,91 | 1.078      | 27,38 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 12-10     | 2,62 - 6,64     | 5/16     | M8   | 320575               | .469      | 11,91 | 1.078      | 27,38 | Blue   | .150                      | 3,81 | ✓                              |               | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 5/16     | M8   | 328998               | .469      | 11,91 | 1.078      | 27,38 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 3/8      |      | 320564               | .531      | 13,49 | 1.218      | 30,94 | Blue   | .150                      | 3,81 | ✓                              | ✓             | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 3/8      |      | 328999               | .531      | 13,49 | 1.218      | 30,94 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/2      | M12  | 328976               | .713      | 18,11 | 1.293      | 32,84 | Blue   | .150                      | 3,81 |                                |               | 6            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/2      | M12  | 328849               | .713      | 18,11 | 1.293      | 32,84 | Blue   | .170                      | 4,32 |                                |               |              | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 4        | M2.5 | 35148                | .281      | 7,14  | .953       | 24,21 | Yellow | .250                      | 6,35 | ✓                              | ✓             |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 320634               | .281      | 7,14  | .953       | 24,21 | Yellow | .230                      | 5,84 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 35149                | .281      | 7,14  | .953       | 24,21 | Yellow | .250                      | 6,35 | ✓                              | ✓             |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 320567               | .375      | 9,53  | 1.083      | 27,51 | Yellow | .230                      | 5,84 | ✓                              |               | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 35107                | .375      | 9,53  | 1.083      | 27,51 | Yellow | .250                      | 6,35 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 35787                | .312      | 7,92  | 1.031      | 26,19 | Yellow | .230                      | 5,84 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 324915               | .312      | 7,92  | 1.052      | 26,72 | Yellow | .230                      | 5,84 |                                |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 320568               | .375      | 9,53  | 1.083      | 27,51 | Yellow | .230                      | 5,84 | ✓                              |               | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 35108                | .375      | 9,53  | 1.083      | 27,51 | Yellow | .250                      | 6,35 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 324918               | .312      | 7,92  | 1.052      | 26,72 | Yellow | .230                      | 5,84 | ✓                              | ✓             |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 32883                | .343      | 8,71  | 1.046      | 26,57 | Yellow | .230                      | 5,84 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 |          | M5   | 130171               | .375      | 9,53  | 1.090      | 27,68 | Yellow | .250                      | 6,35 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 36161                | .375      | 9,53  | 1.083      | 27,51 | Yellow | .230                      | 5,84 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 35109                | .375      | 9,53  | 1.083      | 27,51 | Yellow | .250                      | 6,35 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/4      | M6   | 320569               | .531      | 13,49 | 1.322      | 33,58 | Yellow | .230                      | 5,84 |                                |               | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/4      | M6   | 35110                | .531      | 13,49 | 1.322      | 33,58 | Yellow | .250                      | 6,35 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 5/16     | M8   | 320576               | .531      | 13,49 | 1.322      | 33,58 | Yellow | .230                      | 5,84 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 5/16     | M8   | 35111                | .531      | 13,49 | 1.322      | 33,58 | Yellow | .250                      | 6,35 | ✓                              | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 5/16     | M8   | 160298               | .500      | 12,70 | 1.188      | 30,18 | Yellow | .250                      | 6,35 | ✓                              |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 3/8      |      | 320577               | .593      | 15,06 | 1.414      | 35,92 | Yellow | .230                      | 5,84 | ✓                              |               | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 3/8      |      | 35112                | .593      | 15,06 | 1.414      | 35,92 | Yellow | .250                      | 6,35 |                                | ✓             | 6            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/2      | M12  | 323784               | .750      | 19,05 | 1.594      | 40,49 | Yellow | .230                      | 5,84 |                                |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 1/2      | M12  | 35151                | .750      | 19,05 | 1.594      | 40,49 | Yellow | .250                      | 6,35 |                                | ✓             |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 3/4      |      | 324615               | 1.25      | 31,75 | 2.219      | 56,36 | Yellow | .230                      | 5,84 |                                |               |              |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |



**Spades: Standard Spade**

|           |                 |          |      |                      |           |       |            |       |        |                           |      |                                |               |              | Manual Hand Tools                       |                                       |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-----------------|----------|------|----------------------|-----------|-------|------------|-------|--------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |                 | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>9</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand<br>Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE Die Set<br>(Commercial) |
| AWG       | mm <sup>2</sup> | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |        | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                         |                                       |                                       |                                                                     |                             |
| 26-22     | 0,10-0,41       | 0        |      | 322001               | .125      | 3,18  | .476       | 12,09 | Yellow | .082                      | 2,08 |                                |               |              | 46121                                   |                                       |                                       |                                                                     |                             |
|           |                 | 4        | M2.5 | 321035               | .203      | 5,16  | .627       | 15,93 | Yellow | .082                      | 2,08 |                                |               |              | 46121                                   |                                       |                                       |                                                                     |                             |
| 22-16     | 0,26-1,65       | 2        | M2   | 328394               | .182      | 4,62  | .727       | 18,47 | Red    | .140                      | 3,56 |                                | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 4        | M2.5 | 327717               | .218      | 5,54  | .674       | 17,12 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 5        | M3   | 34541                | .297      | 7,54  | .846       | 21,49 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 34080                | .297      | 7,54  | .753       | 19,13 | Red    | .125                      | 3,18 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 326861               | .297      | 7,54  | .753       | 19,13 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 32050                | .375      | 9,53  | .908       | 23,06 | Red    | .125                      | 3,18 |                                |               |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 32053                | .375      | 9,53  | .908       | 23,06 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 32051                | .375      | 9,53  | .908       | 23,06 | Red    | .125                      | 3,18 | ✓                              |               |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 16-14     | 1,04-2,62       | 10       |      | 32054                | .375      | 9,53  | .908       | 23,06 | Red    | .140                      | 3,56 | ✓                              | ✓             |              | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 4        | M2.5 | 130527               | .250      | 6,35  | .813       | 20,65 | Blue   | .170                      | 4,32 |                                |               |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 32058                | .375      | 9,35  | .908       | 23,06 | Blue   | .170                      | 4,32 |                                |               |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 35559                | .297      | 7,54  | .753       | 19,13 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 32056                | .385      | 9,78  | .908       | 23,06 | Blue   | .150                      | 3,81 | ✓                              | ✓             |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 32059                | .385      | 9,78  | .908       | 23,06 | Blue   | .170                      | 4,32 |                                | ✓             |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 32057                | .385      | 9,78  | .908       | 23,06 | Blue   | .150                      | 3,81 |                                |               |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 32060                | .385      | 9,78  | .908       | 23,06 | Blue   | .170                      | 4,32 |                                | ✓             |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 12-10     | 2,62-6,64       | 12       | M6   | 130537               | .475      | 12,07 | 1.103      | 28,01 | Blue   | .170                      | 4,32 |                                | ✓             |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 322985               | .290      | 7,37  | .954       | 24,23 | Yellow | .230                      | 5,84 | ✓                              |               |              | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 6        | M3.5 | 326859               | .312      | 7,92  | 1.095      | 27,81 | Yellow | .230                      | 5,84 | ✓                              |               |              |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 32588                | .406      | 10,31 | 1.095      | 27,81 | Yellow | .230                      | 5,84 | ✓                              | ✓             |              |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 35152                | .406      | 10,31 | 1.095      | 27,81 | Yellow | .250                      | 6,35 | ✓                              | ✓             |              |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 32589                | .406      | 10,31 | 1.095      | 27,81 | Yellow | .230                      | 5,84 | ✓                              | ✓             |              |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 12       | M6   | 130625               | 0.531     | 13,50 | 1.299      | 33,00 | Yellow | 0.252                     | 6,40 |                                | ✓             |              |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |



**Long Spring Spade**

|           |                 |          |      |                      |           |      |            |       |        |                           |      |                                |               |              | Manual Hand Tools                       |                                       |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-----------------|----------|------|----------------------|-----------|------|------------|-------|--------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |                 | Studsize |      | Standard Part Number | Width (W) |      | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>9</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand<br>Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE 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        | M3.5 | 52409                | .250      | 6,35 | .276       | 7,01  | Blue   | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 52410                | .281      | 7,14 | .290       | 7,37  | Blue   | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 52411                | .343      | 8,71 | .303       | 7,70  | Blue   | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 16-14     | 1,04-2,62       | 6        | M3.5 | 52420-1              | .250      | 6,35 | .933       | 23,70 | Red    | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 8        | M4   | 52421-1              | .281      | 7,14 | .979       | 24,87 | Red    | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 52422-1              | .343      | 8,71 | 1.005      | 25,53 | Red    | .170                      | 4,32 | ✓                              |               | 1            | 47387                                   | 59250                                 | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 12-10     | 2,62-6,64       | 8        | M4   | 52431-1              | .375      | 9,53 | 1.174      | 29,82 | Yellow | .250                      | 6,35 | ✓                              |               | 1            |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | 10       |      | 52432-1              | .375      | 9,53 | 1.219      | 30,96 | Yellow | .250                      | 6,35 | ✓                              |               | 1            |                                         | 59239-4                               | 58433-3                               | 2063030-1                                                           | 58423-1                     |



### Short Spring Spade

|           |           |          |      |                      |           |       |            |       |       |                           |      |                                |               |              | Manual Hand Tools                       |                                    |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-----------|----------|------|----------------------|-----------|-------|------------|-------|-------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |           | Studsize |      | Standard Part Number | Width (W) |       | Length (L) |       | Color | Max. Wire Insulation Dia. |      | Also available in <sup>a</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE Die Set<br>(Commercial) |
| AWG       | mm²       | U.S.     | mm   |                      | inch      | mm    | inch       | mm    |       | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                         |                                    |                                       |                                                                     |                             |
| 26-22     | 0,12-0,40 | 6        | M3.5 | 52924                | .250      | 6,35  | .679       | 17,25 | 🟡     | .082                      | 2,08 | ✓                              | ✓             | 1            | 46121                                   |                                    |                                       |                                                                     |                             |
| 22-16     | 0,26-1,65 | 4        | M2.5 | 52927                | .203      | 5,16  | .799       | 20,29 | 🔴     | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 5        | M3   | 52928                | .250      | 6,35  | .799       | 20,29 | 🔴     | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 6        | M3.5 | 52929                | .250      | 6,35  | .799       | 20,29 | 🔴     | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 8        | M4   | 52930                | .375      | 9,53  | .860       | 21,84 | 🔴     | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 10       |      | 52931                | .406      | 10,31 | .908       | 23,06 | 🔴     | .125                      | 3,18 | ✓                              | ✓             | 1            | 47386                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 12       | M6   | 52933                | .625      | 18,88 | 1.033      | 26,24 | 🔴     | .125                      | 3,18 |                                | ✓             | 1            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 16-14     | 1,04-2,62 | 5        | M3   | 52934                | .250      | 6,35  | .799       | 20,29 | 🟢     | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 6        | M3.5 | 52935                | .250      | 6,35  | .799       | 20,29 | 🟢     | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 8        | M4   | 52936                | .375      | 9,53  | .860       | 21,84 | 🟢     | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 10       |      | 52937                | .406      | 10,31 | .908       | 23,06 | 🟢     | .170                      | 4,32 | ✓                              | ✓             | 1            | 47387                                   | 59250                              | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 12       | M6   | 52939                | .625      | 15,88 | 1.033      | 26,24 | 🟢     | .170                      | 4,32 |                                |               | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 12-10     | 2,62-6,64 | 5        | M3   | 52940                | .250      | 6,35  | .959       | 24,36 | 🟢     | .250                      | 6,35 | ✓                              | ✓             | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 6        | M3.5 | 52941                | .250      | 6,35  | .959       | 24,36 | 🟡     | .250                      | 6,35 | ✓                              | ✓             | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 8        | M4   | 52942                | .375      | 9,53  | 1.052      | 26,72 | 🟡     | .250                      | 6,35 | ✓                              | ✓             | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 10       |      | 52943                | .406      | 10,31 | 1.100      | 27,94 | 🟡     | .250                      | 6,35 | ✓                              | ✓             | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |           | 12       | M6   | 52945                | .625      | 15,88 | 1.225      | 31,12 | 🟡     | .250                      | 6,35 |                                | ✓             | 1            |                                         | 59239-4                            | 58433-3                               | 2063030-1                                                           | 58423-1                     |



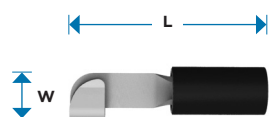
### Butt Splices

|           |           |               |    |                      |           |       |            |    |       |                           |    |                                |               | Manual Hand Tools |                                         |                                    | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                                     |                             |
|-----------|-----------|---------------|----|----------------------|-----------|-------|------------|----|-------|---------------------------|----|--------------------------------|---------------|-------------------|-----------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Wire Size |           | Tab Thickness |    | Standard Part Number | Width (W) |       | Length (L) |    | Color | Max. Wire Insulation Dia. |    | Also available in <sup>a</sup> |               | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool                               | SDE Die Set<br>(Premium)<br>UL Apvd | SDE Die Set<br>(Commercial) |
| AWG       | mm²       | U.S.          | mm |                      | inch      | mm    | inch       | mm |       | inch                      | mm | Tape &<br>Reel                 | Small<br>Pack |                   |                                         |                                    |                                                                     |                                     |                             |
| 26-24     | 0,12-0,24 | n.a.          |    | 323994               | n.a.      | .890  | 22,61      | 🟡  | .082  | 2,08                      | ✓  |                                | 6             | 46121             |                                         |                                    |                                                                     |                                     |                             |
| 26-22     | 0,12-0,41 | n.a.          |    | 2-323994-2           | n.a.      | .890  | 22,61      | 🟡  | .082  | 2,08                      |    | ✓                              |               | 46121             |                                         |                                    |                                                                     |                                     |                             |
| 24-20     | 0,16-0,65 | n.a.          |    | 323975               | n.a.      | 1.035 | 26,29      | 🟡  | .100  | 2,54                      | ✓  |                                | 6             | 47907-1           |                                         |                                    |                                                                     |                                     |                             |
| 22-16     | 0,26-1,65 | n.a.          |    | 320559               | n.a.      | 1.265 | 32,13      | 🔴  | .125  | 3,18                      | ✓  | ✓                              | 6             | 47386             | 59250                                   | 58433-3                            | 2063030-1                                                           | 58423-1                             |                             |
| 16-14     | 1,04-2,62 | n.a.          |    | 320562               | n.a.      | 1.265 | 32,13      | 🔵  | .150  | 3,81                      | ✓  | ✓                              | 6             | 47387             | 59250                                   | 58433-3                            | 2063030-1                                                           | 58423-1                             |                             |
| 12-10     | 2,62-6,64 | n.a.          |    | 320570               | n.a.      | 1.656 | 42,06      | 🟡  | .220  | 5,59                      | ✓  | ✓                              | 6             |                   | 59239-4                                 | 58433-3                            | 2063030-1                                                           | 58423-1                             |                             |

### Stepdown Butt Splice

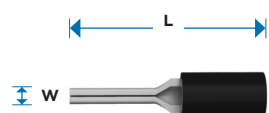
|                |                        |      |  |        |      |  |       |       |        |           |           |  |   |   |       |         |         |           |         |
|----------------|------------------------|------|--|--------|------|--|-------|-------|--------|-----------|-----------|--|---|---|-------|---------|---------|-----------|---------|
| 16-14 to 22-18 | 1,04-2,62 to 0,26-0,96 | n.a. |  | 327583 | n.a. |  | 1.265 | 32,13 | Blue   | .150/.115 | 3,81/2,92 |  | ✓ | 5 | 47387 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 to 22-18 | 2,62-6,64 to 0,26-0,96 | n.a. |  | 327639 | n.a. |  | 1.656 | 42,06 | Yellow | .220/.140 | 5,59/3,56 |  |   | 5 |       | 59239-4 | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 to 16-14 | 2,62-6,64 to 1,04-2,62 | n.a. |  | 327638 | n.a. |  | 1.656 | 42,06 | Yellow | .220/.170 | 5,59/4,32 |  |   | 5 |       | 59239-4 | 58433-3 | 2063030-1 | 58423-1 |





### Knife Disconnects

|           |           |               |    |                      |           |      |            |      |       |                           |      |                                |            | Manual Hand Tools |                               |                              | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                               |                          |
|-----------|-----------|---------------|----|----------------------|-----------|------|------------|------|-------|---------------------------|------|--------------------------------|------------|-------------------|-------------------------------|------------------------------|---------------------------------------------------------------------|-------------------------------|--------------------------|
| Wire Size |           | Tab Thickness |    | Standard Part Number | Width (W) |      | Length (L) |      | Color | Max. Wire Insulation Dia. |      | Also available in <sup>8</sup> |            | Re-marks          | Certi-Crimp Hand Tool UL Apvd | Mil-Spec Certified Hand Tool | Pro-Crimper (SDE) Hand Tool                                         | SDE Die Set (Premium) UL Apvd | SDE Die Set (Commercial) |
| AWG       | mm²       | U.S.          | mm |                      | inch      | mm   | inch       | mm   |       | inch                      | mm   | Tape & Reel                    | Small Pack |                   |                               |                              |                                                                     |                               |                          |
| 22-16     | 0,26-1,65 | n.a.          |    | 320555               | .203      | 5,16 | .878       | 22,3 | ●     | .125                      | 3,18 |                                | ✓          |                   | 47386                         | 59250                        | 58433-3                                                             | 2063030-1                     | 58423-1                  |
|           |           | n.a.          |    | 32446                | .203      | 5,16 | .878       | 22,3 | ●     | .140                      | 3,56 | ✓                              | ✓          |                   | 47386                         | 59250                        | 58433-3                                                             | 2063030-1                     | 58423-1                  |
| 16-14     | 1,04-2,62 | n.a.          |    | 32448                | .203      | 5,16 | .878       | 22,3 | ●     | .170                      | 4,32 |                                | ✓          |                   | 47387                         | 59250                        | 58433-3                                                             | 2063030-1                     | 58423-1                  |
| 12-10     | 2,62-6,64 | n.a.          |    | 35762                | .281      | 7,14 | 1.260      | 32   | ●     | .250                      | 6,35 |                                | ✓          |                   |                               | 59239-4                      | 58433-3                                                             | 2063030-1                     | 58423-1                  |



### Wire Pins (formed)

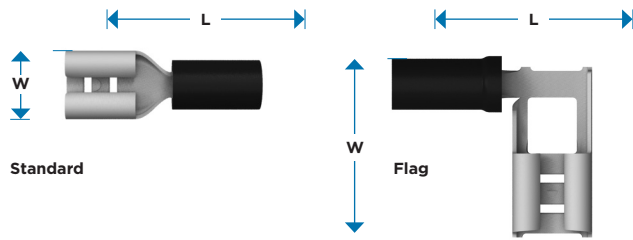
|       |           |      |  |          |      |      |       |       |        |      |      |  |   |   |       |         |         |           |         |
|-------|-----------|------|--|----------|------|------|-------|-------|--------|------|------|--|---|---|-------|---------|---------|-----------|---------|
| 26-22 | 0,12-0,41 | n.a. |  | 165514-1 | .045 | 1,14 | .716  | 18,20 | Yellow | .83  | 2,11 |  | ✓ |   | 47386 |         | 58433-3 | 2063030-1 | 58423-1 |
| 22-16 | 0,26-1,65 | n.a. |  | 165142   | .071 | 1,80 | .795  | 20,20 | Red    | .142 | 3,60 |  | ✓ |   | 47386 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
|       |           |      |  | 165168   | .071 | 1,80 | .913  | 23,20 | Red    | .142 | 3,60 |  | ✓ |   | 47386 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1,04-2,62 | n.a. |  | 165046   | .071 | 1,80 | .800  | 20,30 | Blue   | .170 | 4,30 |  | ✓ |   | 47387 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
|       |           |      |  | 165172   | .071 | 1,80 | .929  | 23,60 | Blue   | .170 | 4,30 |  | ✓ |   | 47387 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 | 2,62-6,64 | n.a. |  | 165049   | .102 | 2,60 | 1.146 | 29,10 | Yellow | .248 | 6,30 |  | ✓ |   |       | 59239-4 | 58433-3 | 2063030-1 | 58423-1 |
|       |           |      |  | 160404-2 | .138 | 3,50 | 1.319 | 33,50 | Yellow | .248 | 6,30 |  | ✓ | 3 |       | 59239-4 | 58433-3 | 2063030-1 | 58423-1 |



### Wire Pins (flat)

|       |           |      |  |        |       |      |       |       |        |      |      |  |   |   |       |         |         |           |         |
|-------|-----------|------|--|--------|-------|------|-------|-------|--------|------|------|--|---|---|-------|---------|---------|-----------|---------|
| 22-16 | 0,26-1,65 | n.a. |  | 131331 | .116  | 2,95 | .905  | 23,00 | Red    | .142 | 3,60 |  | ✓ | 2 | 47386 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1,04-2,62 | n.a. |  | 131330 | .115  | 2,92 | .891  | 22,63 | Blue   | .170 | 4,30 |  | ✓ | 2 | 47387 | 59250   | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 | 2,62-6,64 | n.a. |  | 131332 | 1.614 | 4,10 | 1.150 | 29,20 | Yellow | .252 | 6,40 |  |   |   |       | 59239-4 | 58433-3 | 2063030-1 | 58423-1 |





#### FASTON Receptacle (.250/6.35)

|           |                 |               |      |                      |           |      |            |       |        |                           |      |                                |               |              | Manual Hand Tools                       |                                    |                                       | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                             |
|-----------|-----------------|---------------|------|----------------------|-----------|------|------------|-------|--------|---------------------------|------|--------------------------------|---------------|--------------|-----------------------------------------|------------------------------------|---------------------------------------|---------------------------------------------------------------------|-----------------------------|
| Wire Size |                 | Tab Thickness |      | Standard Part Number | Width (W) |      | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>8</sup> |               | Re-<br>marks | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool | SDE Die Set<br>(Premium)<br>UL Apvd                                 | SDE Die Set<br>(Commercial) |
| AWG       | mm <sup>2</sup> | U.S.          | mm   |                      | inch      | mm   | inch       | mm    |        | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |              |                                         |                                    |                                       |                                                                     |                             |
| 22-18     | 0,26-0,96       | .032          | 0,81 | 640903-1             | .300      | 7,62 | .900       | 22,86 | Red    | .140                      | 3,56 | ✓                              | ✓             |              |                                         |                                    | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 22-16     | 0,30-1,50       | .032          | 0,81 | 9-160583-2           | .300      | 7,62 | .874       | 22,20 | Red    | .140                      | 3,56 |                                | ✓             | 3            |                                         |                                    | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 16-14     | 1,04-2,62       | .032          | 0,81 | 640905-1             | .300      | 7,62 | .900       | 22,86 | Blue   | .170                      | 4,32 | ✓                              | ✓             |              |                                         |                                    | 58433-3                               | 2063030-1                                                           | 58423-1                     |
|           |                 | .032          | 0,81 | 9-160313-2           | .300      | 7,62 | .913       | 23,20 | Blue   | .170                      | 4,32 | ✓                              | ✓             | 3            |                                         |                                    | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 12-10     | 2,62-6,64       | .032          | 0,81 | 640907-1             | .300      | 7,62 | 1.012      | 25,70 | Yellow | .250                      | 6,35 | ✓                              | ✓             |              |                                         |                                    | 58433-3                               | 2063030-1                                                           | 58423-1                     |
| 11-10     | 4,00-6,00       | .031          | 0,80 | 160314-2             | .300      | 7,62 | 1.015      | 26,00 | Yellow | .250                      | 6,35 |                                | ✓             | 3            |                                         |                                    |                                       |                                                                     |                             |

#### FASTON Flag Receptacle (.250/6.35)

|       |           |      |      |          |      |       |      |       |      |      |      |  |   |     |  |  |         |           |         |
|-------|-----------|------|------|----------|------|-------|------|-------|------|------|------|--|---|-----|--|--|---------|-----------|---------|
| 22-18 | 0,30-1,00 | .032 | 0,81 | 156667-1 | .610 | 15,49 | .760 | 19,30 | Red  | .140 | 3,56 |  | ✓ | 3,4 |  |  | 58433-3 | 2063030-1 | 58423-1 |
| 17-15 | 1,20-2,00 | .032 | 0,81 | 156666-1 | .610 | 15,49 | .760 | 19,30 | Blue | .170 | 4,32 |  | ✓ | 3   |  |  | 58433-3 | 2063030-1 | 58423-1 |

#### FASTON Receptacle (.205/5.00)

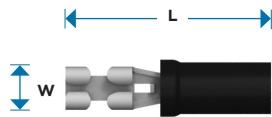
|       |           |      |      |          |      |      |      |       |      |      |      |   |   |  |  |  |         |           |         |
|-------|-----------|------|------|----------|------|------|------|-------|------|------|------|---|---|--|--|--|---------|-----------|---------|
| 22-18 | 0,26-0,96 | .020 | 0,51 | 640909-1 | .250 | 6,35 | .800 | 20,32 | Red  | .140 | 3,56 | ✓ | ✓ |  |  |  | 58433-3 | 2063030-1 | 58423-1 |
|       |           | .032 | 0,81 | 640911-1 | .250 | 6,35 | .800 | 20,32 | Red  | .140 | 3,56 | ✓ | ✓ |  |  |  | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1,04-2,62 | .020 | 0,51 | 640913-1 | .250 | 6,35 | .800 | 20,32 | Blue | .170 | 4,32 | ✓ | ✓ |  |  |  | 58433-3 | 2063030-1 | 58423-1 |
|       |           | .032 | 0,81 | 640915-1 | .250 | 6,35 | .800 | 20,32 | Blue | .170 | 4,32 | ✓ | ✓ |  |  |  | 58433-3 | 2063030-1 | 58423-1 |

#### FASTON Receptacle (.187/4.80)

|       |           |      |      |            |      |      |      |       |        |      |      |   |   |   |  |  |         |           |         |
|-------|-----------|------|------|------------|------|------|------|-------|--------|------|------|---|---|---|--|--|---------|-----------|---------|
| 26-24 | 0,12-0,24 | .020 | 0,51 | 641321-1   | .230 | 5,84 | .700 | 17,78 | Yellow | .082 | 2,08 | ✓ | ✓ |   |  |  |         |           |         |
| 22-18 | 0,26-0,96 | .020 | 0,51 | 640917-1   | .230 | 5,84 | .800 | 20,32 | Red    | .140 | 3,56 | ✓ | ✓ |   |  |  | 58433-3 | 2063030-1 | 58423-1 |
| 22-15 | 0,30-1,50 | .020 | 0,51 | 9-160481-1 | .226 | 5,74 | .822 | 20,88 | Red    | .140 | 3,56 | ✓ | ✓ | 3 |  |  |         |           |         |
|       |           | .031 | 0,80 | 9-160483-1 | .226 | 5,74 | .822 | 20,88 | Red    | .140 | 3,56 | ✓ | ✓ | 3 |  |  |         |           |         |
| 16-14 | 1,04-2,62 | .020 | 0,51 | 640919-1   | .230 | 5,84 | .800 | 20,32 | Blue   | .170 | 4,32 | ✓ | ✓ |   |  |  | 58433-3 | 2063030-1 | 58423-1 |
|       |           | .020 | 0,50 | 9-160477-2 | .230 | 5,84 | .862 | 21,90 | Blue   | .170 | 4,30 | ✓ | ✓ | 3 |  |  |         |           |         |
|       |           | .031 | 0,80 | 9-160479-2 | .226 | 5,74 | .862 | 21,90 | Blue   | .170 | 4,30 | ✓ | ✓ | 3 |  |  |         |           |         |

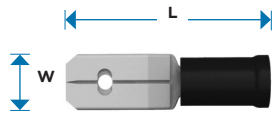
#### FASTON Receptacle (.110/2.80)

|       |           |      |      |          |      |      |      |       |       |      |      |   |   |   |  |  |  |  |  |
|-------|-----------|------|------|----------|------|------|------|-------|-------|------|------|---|---|---|--|--|--|--|--|
| 22-18 | 0,26-0,96 | .020 | 0,51 | 61060-1  | .148 | 3,76 | .734 | 18,64 | White | .110 | 2,79 | ✓ | ✓ |   |  |  |  |  |  |
|       |           | .032 | 0,81 | 60894-1  | .148 | 3,76 | .734 | 18,64 | White | .110 | 2,79 | ✓ | ✓ |   |  |  |  |  |  |
| 22-16 | 0,30-1,50 | .031 | 0,80 | 165566-1 | .146 | 3,70 | .780 | 19,80 | Red   | .138 | 3,50 |   | ✓ | 3 |  |  |  |  |  |
|       |           | .020 | 0,50 | 165565-1 | .146 | 3,70 | .780 | 19,80 | Red   | .138 | 3,50 | ✓ | ✓ | 3 |  |  |  |  |  |
| 16-14 | 1,50-2,50 | .020 | 0,51 | 165616-2 | .146 | 3,70 | .780 | 19,80 | Blue  | .170 | 4,30 | ✓ | ✓ | 3 |  |  |  |  |  |
|       |           | .010 | 0,25 | 165617-2 | .146 | 3,70 | .780 | 19,80 | Blue  | .170 | 4,30 | ✓ | ✓ | 3 |  |  |  |  |  |



#### FASTON (.110/2.80) Low insertion force terminal

|           |           |               |      |                      |           |      |            |       |        |                           |      |                                |            | Manual Hand Tools |                                         |                                    | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                                     |                             |
|-----------|-----------|---------------|------|----------------------|-----------|------|------------|-------|--------|---------------------------|------|--------------------------------|------------|-------------------|-----------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Wire Size |           | Tab Thickness |      | Standard Part Number | Width (W) |      | Length (L) |       | Color  | Max. Wire Insulation Dia. |      | Also available in <sup>a</sup> |            | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool                               | SDE Die Set<br>(Premium)<br>UL Apvd | SDE Die Set<br>(Commercial) |
| AWG       | mm²       | U.S.          | mm   |                      | inch      | mm   | inch       | mm    |        | inch                      | mm   | Tape & Reel                    | Small Pack |                   |                                         |                                    |                                                                     |                                     |                             |
| 26-24     | 0,12-0,24 | .020          | 0,51 | 641324-1             | .160      | 4,06 | .700       | 17,78 | Yellow | .082                      | 2,08 | ✓                              |            |                   |                                         |                                    |                                                                     |                                     |                             |
| 22-18     | 0,26-0,96 | .016          | 0,41 | 640921-1             | .160      | 4,06 | .800       | 20,32 | Red    | .140                      | 3,56 | ✓                              |            |                   |                                         |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |
|           |           | .020          | 0,51 | 640923-1             | .160      | 4,06 | .800       | 20,32 | Red    | .140                      | 3,56 | ✓                              | ✓          |                   |                                         |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |
|           |           | .032          | 0,81 | 640925-1             | .160      | 4,06 | .800       | 20,32 | Red    | .140                      | 3,56 | ✓                              | ✓          |                   |                                         |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |
| 16-14     | 1,04-2,62 | .020          | 0,51 | 640929-1             | .160      | 4,06 | .800       | 20,32 | Blue   | .170                      | 4,32 | ✓                              | ✓          |                   |                                         |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |
|           |           | .032          | 0,81 | 640931-1             | .160      | 4,06 | .800       | 20,32 | Blue   | .170                      | 4,30 | ✓                              | ✓          |                   |                                         |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |



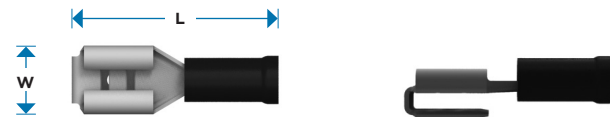
#### Tab Terminal

|       |           |      |      |          |      |      |       |       |        |      |      |  |   |   |         |  |  |  |  |
|-------|-----------|------|------|----------|------|------|-------|-------|--------|------|------|--|---|---|---------|--|--|--|--|
| 20-18 | 0,50-1,00 | .031 | 0,80 | 140896-2 | .250 | 6,35 | .925  | 23,50 | Red    | .130 | 3,30 |  | ✓ | 3 | 90035-3 |  |  |  |  |
| 16-14 | 1,30-2,60 | .031 | 0,80 | 140971-2 | .250 | 6,35 | .925  | 23,50 | Blue   | .157 | 4,00 |  | ✓ | 3 | 90009-8 |  |  |  |  |
| 11-10 | 4,00-6,00 | .031 | 0,80 | 141085-2 | .250 | 6,35 | 1.102 | 28,00 | Yellow | .224 | 5,70 |  | ✓ | 3 | 90276-2 |  |  |  |  |



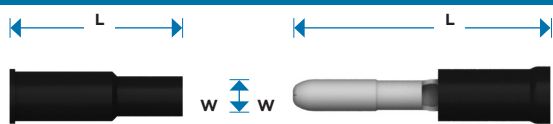
#### TAB (.250 splice for receptacle)

|       |           |      |      |            |      |       |       |       |   |     |  |  |  |  |  |  |  |  |  |
|-------|-----------|------|------|------------|------|-------|-------|-------|---|-----|--|--|--|--|--|--|--|--|--|
| 22-10 | 0,26-6,00 | .032 | 0,81 | 1-321235-0 | .409 | 10,39 | 2.625 | 66,68 | ○ | n.a |  |  |  |  |  |  |  |  |  |
|       |           |      |      | 1-321235-1 | .409 | 10,39 | 2.625 | 66,68 | ○ | n.a |  |  |  |  |  |  |  |  |  |
|       |           |      |      | 321235     | .409 | 10,39 | 2.093 | 53,16 | ○ | n.a |  |  |  |  |  |  |  |  |  |



#### Piggy Back Terminal

|       |           |      |      |            |      |      |      |       |      |      |      |  |   |   |         |  |  |  |  |
|-------|-----------|------|------|------------|------|------|------|-------|------|------|------|--|---|---|---------|--|--|--|--|
| 22-16 | 0,26-1,65 | .032 | 0,81 | 160834-2   | .250 | 6,35 | .927 | 23,55 | Red  | .140 | 3,56 |  | ✓ | 3 | 47386-4 |  |  |  |  |
| 16-14 | 1,00-2,50 | .032 | 0,81 | 9-160463-2 | .250 | 6,35 | .922 | 23,45 | Blue | .170 | 4,32 |  | ✓ | 3 | 47387-7 |  |  |  |  |



#### SHUR-PLUG Terminals

|           |           |               |    |                      |           |      |            |       |                                                                                     |                           |      |                                |               | Manual Hand Tools |                                         |                                    | Die Sets for Powered Tools<br>(See Note 1 for Powered Tool Options) |                                     |                             |
|-----------|-----------|---------------|----|----------------------|-----------|------|------------|-------|-------------------------------------------------------------------------------------|---------------------------|------|--------------------------------|---------------|-------------------|-----------------------------------------|------------------------------------|---------------------------------------------------------------------|-------------------------------------|-----------------------------|
| Wire Size |           | Tab Thickness |    | Standard Part Number | Width (W) |      | Length (L) |       | Color                                                                               | Max. Wire Insulation Dia. |      | Also available in <sup>a</sup> |               | Re-<br>marks      | Certi-<br>Crimp<br>Hand Tool<br>UL Apvd | Mil-Spec<br>Certified<br>Hand Tool | Pro-<br>Crimper<br>(SDE)<br>Hand Tool                               | SDE Die Set<br>(Premium)<br>UL Apvd | SDE Die Set<br>(Commercial) |
| AWG       | mm²       | U.S.          | mm |                      | inch      | mm   | inch       | mm    |                                                                                     | inch                      | mm   | Tape &<br>Reel                 | Small<br>Pack |                   |                                         |                                    |                                                                     |                                     |                             |
| 22-16     | 0,25-1,60 | n.a           |    | 165590-1             | .156      | 3,96 | .894       | 22,70 |  | .138                      | 3,50 |                                | ✓             |                   |                                         |                                    |                                                                     |                                     |                             |
| 20-15     | 0,50-1,50 | n.a           |    | 141462-1             | .118      | 3,00 | .945       | 24,00 |  | .134                      | 3,40 |                                | ✓             |                   |                                         |                                    |                                                                     |                                     |                             |
|           |           | n.a           |    | 141456-1             | .118      | 3,00 | .984       | 25,00 |  | .130                      | 3,30 |                                | ✓             |                   |                                         |                                    |                                                                     |                                     |                             |
| 20-16     | 0,50-1,60 | n.a           |    | 165399-1             | .156      | 3,96 | .902       | 22,90 |  | .114                      | 2,90 |                                | ✓             |                   |                                         |                                    |                                                                     |                                     |                             |
| 16-14     | 1,04-2,62 | n.a           |    | 324225               | .156      | 3,96 | .790       | 20,07 |  | .170                      | 4,32 | ✓                              | ✓             |                   | 47387-7                                 |                                    | 58433-3                                                             | 2063030-1                           | 58423-1                     |
| 16-14     | 1,04-2,62 | n.a           |    | 165429-1             | .156      | 3,96 | .972       | 24,70 |  | .157                      | 4,00 |                                | ✓             |                   |                                         |                                    |                                                                     |                                     |                             |
| n.a.      | n.a.      | n.a           |    | 36840                | .156      | 3,96 | 1.795      | 45,59 |  | n.a.                      | n.a. |                                | ✓             | 7                 |                                         |                                    |                                                                     |                                     |                             |

#### REMARKS

- Must be crimped with 22-18 or 22-16 PIDG (red) tooling
- Body Springs Spade : Phosphor Bronze per ASTM B-139
- Body : Copper also according DIN 1787 and EN 1676
- Body : Brass according ASTM B 36
- Sleeve : Nickel Plating per SAE AMS QQ-N-290
- Adapter inserts can be ordered separately for use in specific standard PIDG Butt Splices
- Mill Specified
- Body : Brass according MIL-C-50

For all remarks and additional information see Customer Drawing on [www.te.com](http://www.te.com)

#### NOTE 1

The die sets listed above can be used with the following powered tools:

- 1.75 Ton Battery Tools 2217480-1 (110V) or 2217480-2 (220V)
- AT-300 Electric Crimping Machine 539630-2 (115V/230V) with SDE Adapter 1673663-2
- 626 Pneumatic Tool System with Pro-Crimper Adapter 679304-1
- AT-SC MK II Pneumatic Safety Crimping Machine 1-528050-0 with SDE Die Holder 2-528051-8

#### NOTE 2

Most 22-16, 16-14, and 12-10 AWG PIDG terminals and splices can be crimped using TETRA-CRIMP Hand Crimping Tool 59824-1 (UL approved)

#### FREQUENTLY ASKED QUESTIONS TOOLING

##### Can wires be combined in PIDG terminals & splices?

Yes, they can as long total CMA (Circular Mil Area) and insulation diameter fall within specification.

##### Are PIDG terminals MIL specified?

Yes, most of them meet or exceed MIL-T-7928, Type II, class 1 & 2.

##### What to choose if you need higher temperature?

Use TE STRATO-THERM terminals (catalog 82011).

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

Because the additional copper sleeve is close to the end of the sleeve (see picture).

##### What is the advantage of this copper sleeve?

It provides circumferential insulation support to the wire and allows the wire to bend in any direction, without fraying the wire's insulation or breaking the conductor.

##### Why is there no crimpheight given for PIDG terminals?

It is the geometry of the TE crimping tools which ensures the perfect crimp on PIDG terminals.



## TOOLING



**58433-3 - Pro-Crimper  
Commercial Hand Tool**

1. The conical sleeve serves for easier conductor insertion.
2. The nylon insulating sleeve offers high dielectric strength. The colour coding corresponds to the wire size.
3. Grooves inside the wire sleeve ensure high tensile strength and current transfer.
4. The copper sleeve provides optimal insulation support.

<http://tooling.te.com>

<http://www.te.com/products/industrial-terminals-splices>

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

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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ВЧ соединители, коаксиальные кабели,  
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