

PLASTI-GRIP TERMINALS & SPLICES

Quick Reference Guide

FEATURES AND BENEFITS

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

600V

Operating
Voltage

105°

Max Operating
Temperature (Celsius)

UL/CSA

UL and CSA
Approval

PRODUCT APPLICATIONS

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



WHAT'S INSIDE

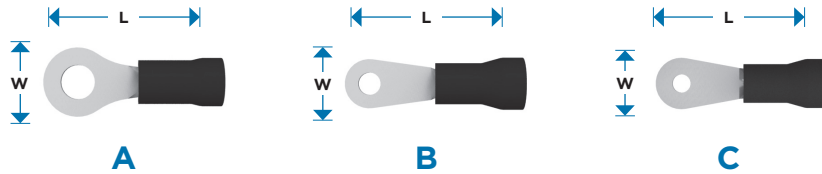
Pre-insulated PLASTI-GRIP solderless terminals and splices are designed specifically to answer the need for low-cost, insulated electrical terminations. They consist of a high conductivity copper body and color coded PVC insulation that can be used in almost all commercial applications. Carefully engineered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

MATERIAL

Insulation: Vinyl, UL 94V-0

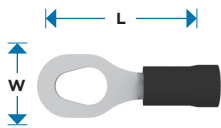
Terminal Body: Copper per ASTM B-152

Plating: Tin per ASTM B-545

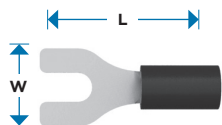


| Ring Tongue Terminals | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
|-----------------------|-----------------|----------|--------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|-------------------|--|--|---|-----------------------------|--------------------------------|
| Wire Size | | Studsize | | Standard Part Number | Width (W) | | Length (L) | | Color | Wire Barrel Min. Inside Dia | | Also available in ⁴ | | Re- marks | Certi- Crimp Hand Tool (best) | Tetra- Crimp Hand Tool (better) | Pro- Crimper (SDE) Hand Tool (good) | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG | mm ² | U.S. | mm | | inch | mm | inch | mm | | inch | mm | Tape & Reel | Small Pack | | | | | | |
| 22 - 16 | 0.26 - 1.65 | 2 | M2 | 34140 | .218 | 5.54 | .684 | 17.37 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 5 | M3 | 34141 | .218 | 5.54 | .684 | 17.37 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 5 | M3 | 34143 | .281 | 7.14 | .809 | 20.55 | ● | .140 | 3.56 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 32945 | .218 | 5.54 | .684 | 17.37 | ● | .125 | 3.18 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 34142 | .218 | 5.54 | .684 | 17.37 | ● | .140 | 3.56 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 32947 | .281 | 7.14 | .809 | 20.55 | ● | .125 | 3.18 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 34144 | .281 | 7.14 | .809 | 20.55 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 34147 | .281 | 7.14 | .809 | 20.55 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 32948 | .281 | 7.14 | .809 | 20.55 | ● | .125 | 3.18 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 34145 | .281 | 7.14 | .809 | 20.55 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 32951 | .312 | 7.92 | .856 | 21.74 | ● | .125 | 3.18 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 34148 | .312 | 7.92 | .856 | 21.74 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 34146 | .281 | 7.14 | .809 | 20.55 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 35451 | .281 | 7.14 | .809 | 20.55 | ● | .170 | 4.32 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 32952 | .312 | 7.92 | .856 | 21.74 | ● | .125 | 3.18 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 34149 | .312 | 7.92 | .856 | 21.74 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | M5 | 130014 | .315 | 8.00 | .858 | 21.80 | ● | .140 | 3.56 | ✓ | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 | |
| | | 1/4 | M6 | 32953 | .469 | 11.91 | 1.090 | 27.69 | ● | .125 | 3.18 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 1/4 | M6 | 34150 | .469 | 11.91 | 1.090 | 27.69 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 1/4 | M6 | 130054 | .469 | 11.91 | 1.095 | 27.81 | ● | .140 | 3.56 | - | - | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 5/16 | M8 | 34151 | .469 | 11.91 | 1.090 | 27.69 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 3/8 | | 34152 | .531 | 13.49 | 1.230 | 31.24 | ● | .140 | 3.56 | ✓ | ✓ | A | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1.04 - 2.62 | 6 | M3.5 | 34158 | .250 | 6.35 | .715 | 18.16 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 6 | M3.5 | 34159 | .343 | 8.71 | .871 | 22.12 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 328527 | .312 | 7.92 | .825 | 20.96 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 32959 | .343 | 8.71 | .871 | 22.12 | ● | .145 | 3.68 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 34160 | .343 | 8.71 | .871 | 22.12 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 32960 | .343 | 8.71 | .871 | 22.12 | ● | .145 | 3.68 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 34161 | .343 | 8.71 | .871 | 22.12 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | | | M5 | 130102 | .343 | 8.70 | .878 | 22.30 | ● | .193 | 4.90 | ✓ | - | A | 47387 | 59824-1 | 58433-3 | 2063030-1 |
| | | 1/4 | M6 | 34162 | .469 | 11.91 | 1.090 | 27.69 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | M6 | 130126 | .469 | 11.90 | 1.098 | 27.90 | ● | .193 | 4.90 | ✓ | - | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 | |
| | | 5/16 | M8 | 34163 | .469 | 11.91 | 1.090 | 27.69 | ● | .170 | 4.32 | ✓ | ✓ | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 3/8 | | 34164 | .531 | 13.49 | 1.248 | 31.70 | ● | .170 | 4.32 | - | - | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | M10 | 160136 | .657 | 16.70 | 1.244 | 31.60 | ● | .193 | 4.90 | - | - | A | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 | |
| 12-10 | 2.62 - 6.64 | 6 | M3.5 | 34852 | .281 | 7.14 | .953 | 24.21 | ● | .250 | 6.35 | ✓ | ✓ | A | 59239-4 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |

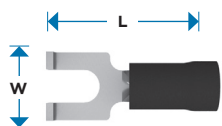
| Ring Tongue Terminals (continued) | | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | |
|-----------------------------------|-----------------|----------|-----|----------------------|-----------|-------|------------|-------|-------|-----------------------------|-------|--------------------------------|--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



| Multiple Studsize Ring Tongue | | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | |
|-------------------------------|-----------------|----------|-----------|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|--------------|--|--|---|---|--------------------------------|
| Wire Size | | Studsize | | Standard Part Number | Width (W) | | Length (L) | | Color | Wire Barrel Min. Inside Dia | | Also available in ⁴ | | Re- marks | Certi- Crimp Hand Tool (best) | Tetra- Crimp Hand Tool (better) | Pro- Crimper (SDE) Hand Tool (good) | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG | mm ² | U.S. | mm | | inch | mm | inch | mm | | inch | mm | Tape & Reel | Small Pack | | | | | | |
| 22 - 16 | 0,26 - 1,65 | 6 - 10 | M3.5 - M5 | 54774-1 | .325 | 8.26 | .969 | 24.61 | ● | .125 | 3.18 | ✓ | - | | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 16 - 14 | 1,04 - 2,62 | 6 - 10 | M3.5 - M5 | 54775-1 | .325 | 8.26 | .969 | 24.61 | ● | .145 | 3.68 | ✓ | - | | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |

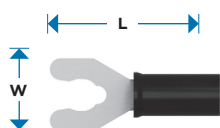


| Spades: Standard Spade | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
|------------------------|-----------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|--------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



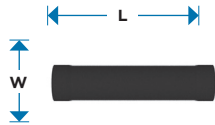
| Spades: Flanged Spade | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
|-----------------------|-----------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|----------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

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

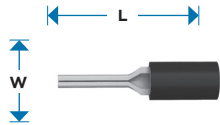


| Short Spring Spade | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
|--------------------|-----------------|----------|------|----------------------|-----------|-------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|----------------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

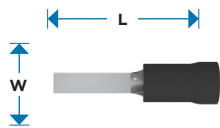
| Long Spring Spade | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
|-------------------|-----------------|----------|------|----------------------|-----------|------|------------|-------|-------|-----------------------------|------|--------------------------------|---------------|-------------------|--|--|---|-----------------------------|--------------------------------|
| Wire Size | | Studsize | | Standard Part Number | Width (W) | | Length (L) | | Color | Wire Barrel Min. Inside Dia | | Also available in ⁴ | | Re- marks | Certi- Crimp Hand Tool (best) | Tetra- Crimp Hand Tool (better) | Pro- Crimper (SDE) Hand Tool (good) | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG | mm ² | U.S. | mm | | inch | mm | inch | mm | | inch | mm | Tape & Reel | Small Pack | | | | | | |
| 22-16 | 0,26 - 1,65 | 6 | M3.5 | 52453 | .250 | 6.35 | .945 | 24.00 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 52454 | .281 | 7.14 | .991 | 25.17 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 52455 | .343 | 8.71 | 1.017 | 25.83 | ● | .140 | 3.56 | ✓ | ✓ | 2 | 47386 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 16-14 | 1,04 - 2,62 | 6 | M3.5 | 52463 | .250 | 6.35 | .945 | 24.00 | ● | .170 | 4.32 | ✓ | - | 2 | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 8 | M4 | 52464 | .281 | 7.14 | .991 | 25.17 | ● | .170 | 4.32 | ✓ | ✓ | 2 | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 52465 | .343 | 8.71 | 1.017 | 25.83 | ● | .170 | 4.32 | ✓ | - | 2 | 47387 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| 12-10 | 2,62 - 6,64 | 8 | M4 | 52474 | .375 | 9.53 | 1.174 | 29.82 | ● | .200 | 5.08 | ✓ | - | 2 | 59239-4 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |
| | | 10 | | 52475 | .375 | 9.53 | 1.219 | 30.96 | ● | .200 | 5.08 | ✓ | - | 2 | 59239-4 | 59824-1 | 58433-3 | 2063030-1 | 58423-1 |



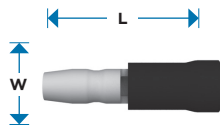
| Butt Splices | | | | | | | | | | | | | | | | | | | |
|------------------|-----------------|----------|----|----------------------|-----------|----|------------|-------|-------|-----------------------------|-----------|--------------------------------|---------------|-------------------|--|--|---|-----------------------------|--------------------------------|
| | | | | | | | | | | | | | | Manual Hand Tools | | | Dies for Powered Tools (see Note 1 for Tool Options) | | |
| Wire Size | | Studsize | | Standard Part Number | Width (W) | | Length (L) | | Color | Wire Barrel Min. Inside Dia | | Also available in ⁴ | | Re- marks | Certi- Crimp Hand Tool (best) | Tetra- Crimp Hand Tool (better) | Pro- Crimper (SDE) Hand Tool (good) | SDE Die Set (Premium) | SDE Die Set (Commercial) |
| AWG | mm ² | U.S. | mm | | inch | mm | inch | mm | | inch | mm | Tape & Reel | Small Pack | | | | | | |
| 26-22 | 0,10-0,41 | n.a. | | 321026 | n.a. | | .620 | 15.75 | ● | .080 | 2.03 | - | ✓ | | 46121 | | | | 58423-1 |
| 22-16 | 0,26 - 1,65 | n.a. | | 34067 | n.a. | | 1.065 | 27.05 | ● | .120 | 3.05 | ✓ | ✓ | | 45160 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34070 | n.a. | | 1.076 | 27.33 | ● | .140 | 3.56 | ✓ | - | | 45160 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34243 | n.a. | | 1.065 | 27.05 | ● | .170 | 4.32 | ✓ | ✓ | | 45160 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34203 | n.a. | | 1.065 | 27.05 | ● | .083x.171 | 2.11x4.34 | - | - | 1 | 45160 | | 58433-3 | | 58423-1 |
| 16-14 | 1,04 - 2,62 | n.a. | | 34068 | n.a. | | 1.065 | 27.05 | ● | .140 | 3.56 | ✓ | ✓ | | 45575-1 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34071 | n.a. | | 1.065 | 27.05 | ● | .170 | 4.32 | ✓ | ✓ | | 45575-1 | | 58433-3 | | 58423-1 |
| | | n.a. | | 35244 | n.a. | | 1.065 | 27.05 | ● | .215 | 5.46 | ✓ | ✓ | | 45575-1 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34204 | n.a. | | 1.065 | 27.05 | ● | .135x.245 | 3.43x6.22 | ✓ | ✓ | 1 | 45575-1 | | 58433-3 | | 58423-1 |
| 12-10 | 2,62 - 6,64 | n.a. | | 34069 | n.a. | | 1.160 | 29.46 | ● | .200 | 5.08 | - | - | | 59489 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34072 | n.a. | | 1.160 | 29.46 | ● | .230 | 5.84 | ✓ | ✓ | | 59489 | | 58433-3 | | 58423-1 |
| | | n.a. | | 34945 | n.a. | | 1.160 | 29.46 | ● | .250 | 6.35 | ✓ | ✓ | | 59489 | | 58433-3 | | 58423-1 |
| Parallel Splices | | | | | | | | | | | | | | | | | | | |
| 22-16 | 0,26 - 1,65 | n.a. | | 34131 | n.a. | | .760 | 19.30 | ● | .120 | 3.05 | - | - | | 45449 | | | | 58423-1 |
| | | n.a. | | 34132 | n.a. | | .760 | 19.30 | ● | .140 | 3.56 | - | - | | 45449 | | | | 58423-1 |
| 16-14 | 1,04 - 2,62 | n.a. | | 34133 | n.a. | | .760 | 19.30 | ● | .140 | 3.56 | - | - | | 45450 | | | | 58423-1 |
| | | n.a. | | 34134 | n.a. | | .760 | 19.30 | ● | .170 | 4.32 | - | - | | 45450 | | | | 58423-1 |
| 12-10 | 2,62 - 6,64 | n.a. | | 34135 | n.a. | | .843 | 21.41 | ● | .200 | 5.08 | - | - | | 59270 | | | | 58423-1 |
| | | n.a. | | 34136 | n.a. | | .870 | 22.10 | ● | .230 | 5.84 | - | - | | 59270 | | | | 58423-1 |



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



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



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

REMARKS

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

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

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

FREQUENTLY ASKED QUESTIONS TOOLING

Can wires be combined in PLASTI-GRIP terminals?

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

Are TE PLASTI-GRIP terminals MIL specified?

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

What terminal should be used in applications above 105 Celsius?

Use STRATO-THERM terminals (catalog 82011).

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

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

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

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

NOTE 1

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

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



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

UNDERSTAND YOUR TE TOOLING OPTIONS

Commerical Portable Tools



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



SDE Micro
Battery Tool



SDE
Die Sets

Premium Portable Tools



CERTI Crimp HHHT



CERTI Crimp DAHT



CERTI Crimp 1.5
TOA Battery Tool

Hydraulic Tooling



Shenk Dies



U Dies



Medium Duty Crimp Heads



Hydraulic Pump



Battery Tools



<http://tooling.te.com>

For questions about our connectivity solutions, please go to te.com.

www.te.com/products/industrial-terminals-splices

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6-1773465-8 09/18