



## Quick Reference Guide

### PLASTI-GRIP Terminals & Splices

Pre-insulated PLASTI-GRIP solderless terminals and splices are designed specifically to answer the need for inexpensive, insulated electrical terminations. They can be used in almost every type of commercial application and accommodate wire sizes from 22 AWG through 2/0 AWG. Carefully engineered application tooling has been developed to ensure uniformly high quality terminations. Tool and terminal have been designed as a team to promote ease and speed of application and at the same time to provide precise crimping pressure for every wire size.

The wire and the terminal barrel form a homogeneous mass of metal, providing a connection of maximum conductivity, tensile strength, and high resistance to corrosion.

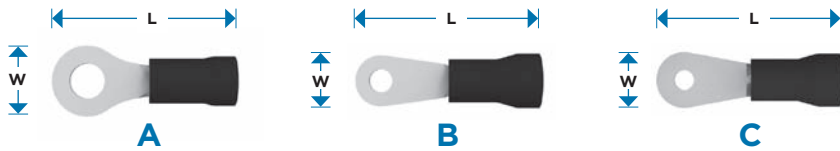
The quality performance, the facility of installation and the inherent simplicity make them ideal for many industrial applications. PLASTI-GRIP products are available as rings, spades, flanged spaded, slotted rings, splices and several other varieties. Wire ranges for the terminals and splices are 22 AWG through 2/0 and stud sizes from #2 through 1/2".

#### KEY FEATURES AND BENEFITS

- Vinyl insulation sleeve provides good dielectric strength and supports the wire insulation so that no bare wire is exposed
- Most product is UL and CSA approved
- Most product rated to 105 degrees C, with an operating voltage of 600 V
- Insulation is 94V-0 rated
- 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

#### PRODUCT APPLICATIONS

- HVAC
- Instruments/Controls
- Lighting
- Switchgear
- Power Supplies
- Panel Boxes
- Transportation
- Motors

**MATERIAL**

Insulation: Vinyl, UL 94V-0  
 Terminal Body: Copper per ASTM B-152  
 Plating: Tin per ASTM B-545

**Ring Tongue Terminals**

| Wire Size |                 | Material Thickness |      | Studsize/<br>Pin Length<br>Wire Pin |      | Standard<br>Part<br>Number | Width (W) |       | Length (L) |       | Color | Max. Wire<br>Insulation Dia. |      | Also available in <sup>4</sup> |            | Remarks |
|-----------|-----------------|--------------------|------|-------------------------------------|------|----------------------------|-----------|-------|------------|-------|-------|------------------------------|------|--------------------------------|------------|---------|
| AWG       | mm <sup>2</sup> | inch               | mm   | U.S.                                | mm   |                            | inch      | mm    | inch       | mm    |       | inch                         | mm   | Tape & Reel                    | Small Pack |         |
| 22-16     | 0,26-1,65       | .033               | 0,84 | 2                                   | M2   | 34140                      | .218      | 5,54  | .684       | 17,37 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 5                                   | M3   | 34141                      | .218      | 5,54  | .684       | 17,37 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 5                                   | M3   | 34143                      | .281      | 7,14  | .809       | 20,55 | ●     | .140                         | 3,56 | ✓                              | -          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 32945                      | .218      | 5,54  | .684       | 17,37 | ●     | .125                         | 3,18 | ✓                              | ✓          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 34142                      | .218      | 5,54  | .684       | 17,37 | ●     | .140                         | 3,56 | ✓                              | -          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 32947                      | .281      | 7,14  | .809       | 20,55 | ●     | .125                         | 3,18 | ✓                              | ✓          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 34144                      | .281      | 7,14  | .809       | 20,55 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 34147                      | .281      | 7,14  | .809       | 20,55 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 32948                      | .281      | 7,14  | .809       | 20,55 | ●     | .125                         | 3,18 | ✓                              | -          | A       |
|           |                 |                    |      | 8                                   | M4   | 34145                      | .281      | 7,14  | .809       | 20,55 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 32951                      | .312      | 7,92  | .856       | 21,74 | ●     | .125                         | 3,18 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 34148                      | .312      | 7,92  | .856       | 21,74 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 34146                      | .281      | 7,14  | .809       | 20,55 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 35451                      | .281      | 7,14  | .809       | 20,55 | ●     | .170                         | 4,32 | ✓                              | -          | A       |
|           |                 |                    |      | 10                                  |      | 32952                      | .312      | 7,92  | .856       | 21,74 | ●     | .125                         | 3,18 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 34149                      | .312      | 7,92  | .856       | 21,74 | ●     | .140                         | 3,56 | ✓                              | -          | A       |
|           |                 | .031               | 0,80 |                                     | M5   | 130014                     | .315      | 8,00  | .858       | 21,80 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 | .033               | 0,84 | 1/4                                 | M6   | 32953                      | .469      | 11,91 | 1.090      | 27,69 | ●     | .125                         | 3,18 | ✓                              | ✓          | A       |
|           |                 |                    |      | 1/4                                 | M6   | 34150                      | .469      | 11,91 | 1.090      | 27,69 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 | .031               | 0,80 | 1/4                                 | M6   | 130054                     | .469      | 11,91 | 1.095      | 27,81 | ●     | .140                         | 3,56 | -                              | ✓          | A       |
|           |                 | .033               | 0,84 | 5/16                                | M8   | 34151                      | .469      | 11,91 | 1.090      | 27,69 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
| 16-14     | 1,04-2,62       | .033               | 0,84 | 3/8                                 |      | 34152                      | .531      | 13,49 | 1.230      | 31,24 | ●     | .140                         | 3,56 | ✓                              | ✓          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 34158                      | .250      | 6,35  | .715       | 18,16 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 |                    |      | 6                                   | M3.5 | 34159                      | .343      | 8,71  | .871       | 22,12 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 328527                     | .312      | 7,92  | .825       | 20,96 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 32959                      | .343      | 8,71  | .871       | 22,12 | ●     | .145                         | 3,68 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 34160                      | .343      | 8,71  | .871       | 22,12 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 32960                      | .343      | 8,71  | .871       | 22,12 | ●     | .145                         | 3,68 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 34161                      | .343      | 8,71  | .871       | 22,12 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 | .031               | 0,80 |                                     | M5   | 130102                     | .343      | 8,70  | .878       | 22,30 | ●     | .193                         | 4,90 | ✓                              | ✓          | A       |
|           |                 | .033               | 0,84 | 1/4                                 | M6   | 34162                      | .469      | 11,91 | 1.090      | 27,69 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 | .031               | 0,80 |                                     | M6   | 130126                     | .469      | 11,90 | 1.098      | 27,90 | ●     | .193                         | 4,90 | ✓                              | ✓          | A       |
|           |                 | .033               | 0,84 | 5/16                                | M8   | 34163                      | .469      | 11,91 | 1.090      | 27,69 | ●     | .170                         | 4,32 | ✓                              | ✓          | A       |
|           |                 |                    |      | 3/8                                 |      | 34164                      | .531      | 13,49 | 1.248      | 31,70 | ●     | .170                         | 4,32 | ✓                              | -          | A       |
|           |                 | .031               | 0,80 |                                     | M10  | 160136                     | .657      | 16,70 | 1.244      | 31,60 | ●     | .193                         | 4,90 | -                              | ✓          | A       |
| 12-10     | 2,62-6,64       | .042               | 1,07 | 6                                   | M3.5 | 34852                      | .281      | 7,14  | .953       | 24,21 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
|           |                 |                    |      | 8                                   | M4   | 34853                      | .375      | 9,53  | 1.098      | 27,89 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
|           |                 |                    |      | 10                                  |      | 330518                     | .312      | 7,92  | 1.052      | 26,72 | ●     | .230                         | 5,84 | ✓                              | -          | A       |
|           |                 |                    |      | 10                                  |      | 34854                      | .375      | 9,53  | 1.098      | 27,89 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
|           |                 | .039               | 1,00 |                                     | M5   | 160292                     | .374      | 9,50  | 1.098      | 27,90 | ●     | .252                         | 6,40 | ✓                              | ✓          | A       |
|           |                 |                    |      | 1/4                                 | M6   | 165035                     | .500      | 12,70 | 1.184      | 30,07 | ●     | .267                         | 6,78 | -                              | ✓          | A       |
|           |                 | .042               | 1,07 | 1/4                                 | M6   | 34855                      | .531      | 13,49 | 1.327      | 33,71 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
|           |                 |                    |      | 5/16                                | M8   | 34856                      | .531      | 13,49 | 1.327      | 33,71 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
|           |                 | .039               | 1,00 |                                     | M8   | 160296                     | .500      | 12,70 | 1.185      | 30,10 | ●     | .248                         | 6,30 | -                              | ✓          | A       |
|           |                 | .042               | 1,07 | 3/8                                 |      | 34173                      | .593      | 15,06 | 1.421      | 36,09 | ●     | .230                         | 5,84 | ✓                              | ✓          | A       |
|           |                 | .039               | 1,00 |                                     | M10  | 160300                     | .594      | 15,09 | 1.433      | 36,40 | ●     | .248                         | 6,30 | -                              | ✓          | A       |
|           |                 | .042               | 1,07 | 1/2                                 | M12  | 34837                      | .750      | 19,05 | 1.594      | 40,49 | ●     | .250                         | 6,35 | ✓                              | ✓          | A       |
| 8         | 6,64-10,50      | .043               | 1,09 | 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       |

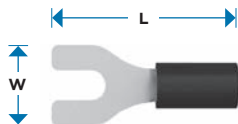
## Ring Tongue Terminals (continued)

| Wire Size |                 | Material Thickness |      | Studsize/<br>Pin Length<br>Wire Pin |     | Standard<br>Part<br>Number | Width (W) |       | Length (L) |       | Color | Max. Wire<br>Insulation Dia. |       | Also available in <sup>4</sup> |            | Remarks |
|-----------|-----------------|--------------------|------|-------------------------------------|-----|----------------------------|-----------|-------|------------|-------|-------|------------------------------|-------|--------------------------------|------------|---------|
| AWG       | mm <sup>2</sup> | inch               | mm   | U.S.                                | mm  |                            | inch      | mm    | inch       | mm    |       | inch                         | mm    | Tape & Reel                    | Small Pack |         |
| 8         | 6,64 - 10,50    | .043               | 1,09 | 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     | .048               | 1,22 | 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     | .051               | 1,30 | 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     | .060               | 1,52 | 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

|       |             |      |      |      |           |         |      |      |      |       |   |      |      |   |   |  |
|-------|-------------|------|------|------|-----------|---------|------|------|------|-------|---|------|------|---|---|--|
| 22-16 | 0,26 - 1,65 | .033 | 0,84 | 6-10 | M3.5 - M5 | 54774-1 | .325 | 8,26 | .969 | 24,61 | ● | .125 | 3,18 | ✓ | - |  |
| 16-14 | 1,04 - 2,62 | .033 | 0,84 | 6-10 | M3.5 - M5 | 54775-1 | .325 | 8,26 | .969 | 24,61 | ● | .145 | 3,68 | ✓ | - |  |



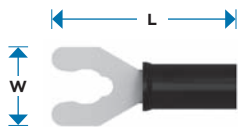
## Spades: Standard Spade

|       |             |      |      |     |      |        |      |       |       |       |   |      |      |   |   |  |
|-------|-------------|------|------|-----|------|--------|------|-------|-------|-------|---|------|------|---|---|--|
| 22-16 | 0,26 - 1,65 | .031 | 0,79 | 4   | M2.5 | 165004 | .218 | 5,54  | .784  | 19,91 | ● | .160 | 4,06 | - | ✓ |  |
|       |             | .033 | 0,84 | 6   | M3.5 | 327043 | .250 | 6,35  | .858  | 21,79 | ● | .140 | 3,56 | ✓ | ✓ |  |
|       |             |      |      | 6   | M3.5 | 320665 | .297 | 7,54  | .765  | 19,43 | ● | .140 | 3,56 | ✓ | ✓ |  |
|       |             |      |      | 8   | M4   | 34155  | .375 | 9,53  | .920  | 23,37 | ● | .140 | 3,56 | ✓ | ✓ |  |
|       |             | .031 | 0,80 | 8   | M4   | 165008 | .280 | 7,11  | .831  | 21,11 | ● | .142 | 3,61 | ✓ | ✓ |  |
|       |             | .033 | 0,84 | 10  |      | 34156  | .375 | 9,53  | .920  | 23,37 | ● | .140 | 3,56 | ✓ | ✓ |  |
| 16-14 | 1,04 - 2,62 | .033 | 0,84 | 6   | M3.5 | 322994 | .297 | 7,54  | .765  | 19,43 | ● | .145 | 3,68 | ✓ | ✓ |  |
|       |             |      |      | 6   | M3.5 | 34165  | .385 | 9,78  | .920  | 23,37 | ● | .170 | 4,32 | - | ✓ |  |
|       |             |      |      | 8   | M4   | 326741 | .297 | 7,54  | .765  | 19,43 | ● | .170 | 4,32 | ✓ | ✓ |  |
|       |             |      |      | 8   | M4   | 34166  | .385 | 9,78  | .920  | 23,37 | ● | .170 | 4,32 | ✓ | ✓ |  |
|       |             | .031 | 0,81 | 8   | M4   | 165012 | .250 | 6,40  | .788  | 20,00 | ● | .195 | 4,95 | ✓ | ✓ |  |
|       |             | .033 | 0,84 | 10  |      | 34167  | .385 | 9,78  | .920  | 23,37 | ● | .170 | 4,32 | ✓ | ✓ |  |
|       |             | .035 | 0,90 |     | M5   | 160171 | .385 | 9,78  | .933  | 23,70 | ● | .193 | 4,90 | - | ✓ |  |
| 12-10 | 2,62 - 6,64 | .039 | 1,00 |     | M4.5 | 165015 | .315 | 8,00  | 1.238 | 31,45 | ● | .252 | 6,40 | - | ✓ |  |
|       |             | .040 | 1,02 | 10  |      | 34176  | .406 | 10,31 | 1.095 | 27,81 | ● | .230 | 5,84 | ✓ | ✓ |  |
|       |             | .039 | 1,00 |     | M5   | 165017 | .530 | 13,46 | 1.307 | 33,19 | ● | .252 | 6,40 | - | ✓ |  |
|       |             | .039 | 1,00 | 1/4 | M6   | 165019 | .530 | 13,46 | 1.307 | 33,19 | ● | .252 | 6,40 | - | ✓ |  |



## Spades: Flanged Spade

| Wire Size |                 | Material Thickness |      | Studsize/<br>Pin Length Wire Pin |      | Standard<br>Part<br>Number | Width (W) |       | Length (L) |       | Color | Max. Wire<br>Insulation Dia. |      | Also available in <sup>4</sup> |            | Remarks |
|-----------|-----------------|--------------------|------|----------------------------------|------|----------------------------|-----------|-------|------------|-------|-------|------------------------------|------|--------------------------------|------------|---------|
| AWG       | mm <sup>2</sup> | inch               | mm   | U.S.                             | mm   |                            | inch      | mm    | inch       | mm    |       | inch                         | mm   | Tape & Reel                    | Small Pack |         |
| 22-16     | 0,26 - 1,65     | .033               | 0,84 | 6                                | M3.5 | 322249                     | .296      | 7,52  | .749       | 19,02 | ●     | .140                         | 3,56 | ✓                              | ✓          |         |
|           |                 |                    |      | 8                                | M4   | 324169                     | .416      | 10,57 | .842       | 21,39 | ●     | .140                         | 3,56 | ✓                              | ✓          |         |
|           |                 |                    |      | 10                               |      | 328516                     | .296      | 7,52  | .749       | 19,02 | ●     | .140                         | 3,56 | ✓                              | ✓          |         |
| 16-14     | 1,04 - 2,62     | .033               | 0,84 | 6                                | M3.5 | 324165                     | .294      | 7,47  | .749       | 19,02 | ●     | .170                         | 4,32 | ✓                              | ✓          |         |
|           |                 |                    |      | 8                                | M4   | 53874-1                    | .284      | 7,21  | .749       | 19,02 | ●     | .170                         | 4,32 | ✓                              | -          |         |
|           |                 |                    |      | 8                                | M4   | 160212                     | .294      | 7,47  | .749       | 19,02 | ●     | .173                         | 4,39 | -                              | -          |         |
|           |                 | .031               | 0,79 |                                  | M5   | 160213                     | .294      | 7,47  | .749       | 19,02 | ●     | .173                         | 4,39 | -                              | ✓          |         |
| 12-10     | 2,62 - 6,64     | .042               | 1,07 | 6                                | M3.5 | 324581                     | .296      | 7,52  | 1.017      | 25,83 | ●     | .230                         | 5,84 | ✓                              | ✓          |         |
|           |                 |                    |      | 8                                | M4   | 324172                     | .416      | 10,57 | 1.017      | 25,83 | ●     | .230                         | 5,84 | ✓                              | ✓          |         |
|           |                 |                    |      | 10                               |      | 52856                      | .416      | 10,57 | 1.017      | 25,83 | ●     | .250                         | 6,35 | ✓                              | ✓          |         |



## Short Spring Spade

|       |             |      |      |    |      |         |      |       |       |       |   |      |      |   |   |   |
|-------|-------------|------|------|----|------|---------|------|-------|-------|-------|---|------|------|---|---|---|
| 22-16 | 0,26 - 1,65 | .033 | 0,84 | 4  | M2.5 | 52947   | .203 | 5,16  | .811  | 20,60 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
|       |             |      |      | 5  | M3   | 52948   | .250 | 6,35  | .811  | 20,60 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
|       |             |      |      | 6  | M3.5 | 52949   | .250 | 6,35  | .811  | 20,60 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
|       |             |      |      | 6  | M3.5 | 53240-1 | .234 | 5,94  | .811  | 20,60 | ● | .140 | 3,56 | ✓ | - | 2 |
|       |             |      |      | 8  | M4   | 53241-1 | .244 | 6,20  | .872  | 22,15 | ● | .140 | 3,56 | ✓ | - | 2 |
|       |             |      |      | 10 |      | 53242-1 | .294 | 7,47  | .920  | 23,37 | ● | .140 | 3,56 | ✓ | - | 2 |
| 16-14 | 1,04 - 2,62 | .033 | 0,84 | 6  | M3.5 | 52955   | .250 | 6,35  | .811  | 20,60 | ● | .170 | 4,32 | ✓ | ✓ | 2 |
|       |             |      |      | 8  | M4   | 53244-1 | .244 | 6,20  | .872  | 22,15 | ● | .170 | 4,32 | ✓ | ✓ | 2 |
|       |             |      |      | 10 |      | 52957   | .406 | 10,31 | .920  | 23,37 | ● | .170 | 4,32 | ✓ | ✓ | 2 |
| 12-10 | 2,62 - 6,64 | .042 | 1,07 | 6  | M3.5 | 52961   | .250 | 6,35  | .959  | 24,36 | ● | .200 | 5,08 | ✓ | ✓ | 2 |
|       |             |      |      | 8  | M4   | 53247-1 | .312 | 7,92  | 1.052 | 26,72 | ● | .250 | 6,35 | ✓ | ✓ | 2 |
|       |             |      |      | 10 |      | 52963-2 | .406 | 10,31 | 1.100 | 27,94 | ● | .250 | 6,35 | ✓ | - | 2 |

## Long Spring Spade

|       |             |      |      |    |      |       |      |  |       |       |   |      |      |   |   |   |
|-------|-------------|------|------|----|------|-------|------|--|-------|-------|---|------|------|---|---|---|
| 22-16 | 0,26 - 1,65 | .033 | 0,84 | 6  | M3.5 | 52453 | .250 |  | .945  | 24,00 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
|       |             |      |      | 8  | M4   | 52454 | .281 |  | .991  | 25,17 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
|       |             |      |      | 10 |      | 52455 | .343 |  | 1.017 | 25,83 | ● | .140 | 3,56 | ✓ | ✓ | 2 |
| 16-14 | 1,04 - 2,62 | .033 | 0,84 | 6  | M3.5 | 52463 | .250 |  | .945  | 24,00 | ● | .170 | 4,32 | ✓ | - | 2 |
|       |             |      |      | 8  | M4   | 52464 | .281 |  | .991  | 25,17 | ● | .170 | 4,32 | ✓ | ✓ | 2 |
|       |             |      |      | 10 |      | 52465 | .343 |  | 1.017 | 25,83 | ● | .170 | 4,32 | ✓ | - | 2 |
| 12-10 | 2,62 - 6,64 | .042 | 1,07 | 8  | M4   | 52474 | .375 |  | 1.174 | 29,82 | ● | .200 | 5,08 | ✓ | - | 2 |
|       |             |      |      | 10 |      | 52475 | .375 |  | 1.219 | 30,96 | ● | .200 | 5,08 | ✓ | - | 2 |



## Butt Splices

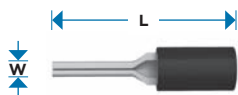
|       |             |      |      |  |  |        |      |       |       |  |   |      |      |   |   |  |
|-------|-------------|------|------|--|--|--------|------|-------|-------|--|---|------|------|---|---|--|
| 26-22 | 0,12 - 0,41 | n.a. | n.a. |  |  | 321026 | n.a. | .620  | 15,75 |  | ● | .080 | 2,03 | ✓ | ✓ |  |
| 22-16 | 0,26 - 1,65 | n.a. | n.a. |  |  | 34067  | n.a. | 1.065 | 27,05 |  | ● | .120 | 3,05 | ✓ | ✓ |  |
|       |             | n.a. | n.a. |  |  | 34070  | n.a. | 1.076 | 27,33 |  | ● | .140 | 3,56 | ✓ | ✓ |  |
|       |             | n.a. | n.a. |  |  | 34243  | n.a. | 1.065 | 27,05 |  | ● | .170 | 4,32 | ✓ | ✓ |  |

## Butt Splices (continued)

| Wire Size |                 | Material Thickness |    | Studsize/<br>Pin Length<br>Wire Pin |    | Standard<br>Part<br>Number | Width (W) |    | Length (L) |       | Color | Max. Wire<br>Insulation Dia. |             | Also available in <sup>4</sup> |            | Remarks |
|-----------|-----------------|--------------------|----|-------------------------------------|----|----------------------------|-----------|----|------------|-------|-------|------------------------------|-------------|--------------------------------|------------|---------|
| AWG       | mm <sup>2</sup> | inch               | mm | U.S.                                | mm |                            | inch      | mm | inch       | mm    |       | inch                         | mm          | Tape & Reel                    | Small Pack |         |
| 22-16     | 0,26 - 1,65     | n.a.               |    | n.a.                                |    | 34203                      | n.a.      |    | 1.065      | 27,05 | ●     | .083 x .171                  | 2,11 x 4,34 | -                              | -          | 1       |
| 16-14     | 1,04 - 2,62     | n.a.               |    | n.a.                                |    | 34068                      | n.a.      |    | 1.065      | 27,05 | ●     | .140                         | 3,56        | ✓                              | ✓          |         |
|           |                 | n.a.               |    | n.a.                                |    | 34071                      | n.a.      |    | 1.065      | 27,05 | ●     | .170                         | 4,32        | ✓                              | ✓          |         |
|           |                 | n.a.               |    | n.a.                                |    | 35244                      | n.a.      |    | 1.065      | 27,05 | ●     | .215                         | 5,46        | ✓                              | ✓          |         |
|           |                 | n.a.               |    | n.a.                                |    | 34204                      | n.a.      |    | 1.065      | 27,05 | ●     | .135 x .245                  | 3,43 x 6,22 | ✓                              | ✓          | 1       |
| 12-10     | 2,62 - 6,64     | n.a.               |    | n.a.                                |    | 34069                      | n.a.      |    | 1.160      | 29,46 | ●     | .200                         | 5,08        | -                              | -          |         |
|           |                 | n.a.               |    | n.a.                                |    | 34072                      | n.a.      |    | 1.160      | 29,46 | ●     | .230                         | 5,84        | ✓                              | ✓          |         |
|           |                 | n.a.               |    | n.a.                                |    | 34945                      | n.a.      |    | 1.160      | 29,46 | ●     | .250                         | 6,35        | -                              | -          |         |

## Parallel Splices

|       |             |      |  |      |  |       |      |  |      |       |   |      |      |   |   |  |
|-------|-------------|------|--|------|--|-------|------|--|------|-------|---|------|------|---|---|--|
| 22-16 | 0,26 - 1,65 | n.a. |  | n.a. |  | 34131 | n.a. |  | .760 | 19,30 | ● | .120 | 3,05 | - | - |  |
|       |             | n.a. |  | n.a. |  | 34132 | n.a. |  | .760 | 19,30 | ● | .140 | 3,56 | - | ✓ |  |
| 16-14 | 1,04 - 2,62 | n.a. |  | n.a. |  | 34133 | n.a. |  | .760 | 19,30 | ● | .140 | 3,56 | - | - |  |
|       |             | n.a. |  | n.a. |  | 34134 | n.a. |  | .760 | 19,30 | ● | .170 | 4,32 | - | ✓ |  |
| 12-10 | 2,62 - 6,64 | n.a. |  | n.a. |  | 34135 | n.a. |  | .843 | 21,41 | ● | .200 | 5,08 | - | - |  |
|       |             | n.a. |  | n.a. |  | 34136 | n.a. |  | .870 | 22,10 | ● | .230 | 5,84 | - | ✓ |  |



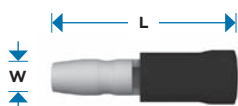
## Wire Pins (formed)

|       |             |      |      |      |        |      |      |       |       |   |      |      |   |   |  |
|-------|-------------|------|------|------|--------|------|------|-------|-------|---|------|------|---|---|--|
| 22-16 | 0,26 - 1,65 | n.a. | .264 | 6,71 | 165143 | .071 | 1,80 | .807  | 20,50 | ● | .146 | 3,71 | - | ✓ |  |
|       |             |      | .390 | 9,91 | 165167 | .071 | 1,80 | .937  | 23,80 | ● | .146 | 3,71 | - | ✓ |  |
| 16-14 | 1,04 - 2,62 | n.a. | .264 | 6,71 | 165075 | .071 | 1,80 | .815  | 20,70 | ● | .193 | 4,90 | - | ✓ |  |
|       |             |      | .390 | 9,91 | 165171 | .071 | 1,80 | .933  | 23,70 | ● | .193 | 4,90 | - | ✓ |  |
| 12-10 | 2,62 - 6,64 | n.a. | .390 | 9,91 | 165085 | .102 | 2,60 | 1.150 | 29,21 | ● | .252 | 6,40 | - | ✓ |  |



## Wire Pins (flat)

|       |             |      |      |      |        |      |      |       |       |   |      |      |   |   |  |
|-------|-------------|------|------|------|--------|------|------|-------|-------|---|------|------|---|---|--|
| 22-16 | 0,26 - 1,65 | n.a. | .319 | 8,10 | 131443 | .116 | 2,95 | .906  | 23,00 | ● | .142 | 3,60 | - | ✓ |  |
| 16-14 | 1,04 - 2,62 | n.a. | .319 | 8,10 | 131444 | .116 | 2,95 | .906  | 23,00 | ● | .193 | 4,90 | - | ✓ |  |
| 12-10 | 2,62 - 6,64 | n.a. | .331 | 8,40 | 131445 | .165 | 4,20 | 1.157 | 29,40 | ● | .252 | 6,40 | - | ✓ |  |



## Shur Plugs

|       |             |     |      |  |        |      |      |      |       |   |      |      |   |   |   |
|-------|-------------|-----|------|--|--------|------|------|------|-------|---|------|------|---|---|---|
| 16-14 | 1,04 - 2,62 | pin | n.a. |  | 324227 | .156 | 3,96 | .800 | 20,32 | ● | .193 | 4,90 | ✓ | ✓ | 3 |
|       |             | pin | n.a. |  | 324228 | .180 | 4,57 | .773 | 19,63 | ● | .193 | 4,90 | - | ✓ | 3 |

## 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. Partnumbers 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 applicable part numbers see specification 404-32020 at te.com

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

## FREQUENTLY ASKED QUESTIONS

### Can wires be combined in PLASTI-GRIP terminals?

Yes they can as long total CMA (Circular MIL Area) 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 to choose if you need higher temperature?

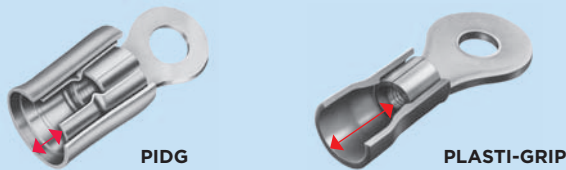
Use STRATO-THERM terminals (catalog 82011).

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

Because there's no additional metallic sleeve to support the crimp (see picture).

### Why is there no crimpheight given for PLASTI-GRIP terminals?

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



## TOOLING

### Commercial tooling

Most terminals (AWG22-10) can be terminated with handtool 58433-3 (58423-1 + 354940-1) or 169400 + 169404.

For Butt-splices only 58433-3 and for Parallel-splices no commercial tooling available.

For wire sizes 8-2 no commercial tooling available.

### Premium tooling

|           |                                      |
|-----------|--------------------------------------|
| AWG 22-16 | 47386 or 59824-1                     |
| AWG 16-14 | 47387 or 59824-1                     |
| AWG 12-10 | 59239-4 or 59824-1                   |
| AWG 8     | 59974-1 + 47820 or 59974-1 + 48752-1 |
| AWG 6     | 59974-1 + 47821 or 59974-1 + 48753-1 |
| AWG 4     | 59974-1 + 47822 or 59974-1 + 48754-1 |
| AWG 2     | 59974-1 + 47823 or 59974-1 + 48755-1 |

### Butt Splices:

|             |         |
|-------------|---------|
| AWG 26 - 22 | 46121   |
| AWG 22 - 16 | 45160   |
| AWG 16 - 14 | 45575-1 |
| AWG 12 - 10 | 59489   |

### Parallel Splices:

|             |       |
|-------------|-------|
| AWG 22 - 16 | 45449 |
| AWG 16 - 14 | 45450 |
| AWG 12 - 10 | 59270 |

### Service tool

|           |          |
|-----------|----------|
| AWG 22-10 | 169060-8 |
|-----------|----------|

<http://tooling.te.com/europe/handtools.asp>

<http://www.te.com>

## FOR MORE INFORMATION

### TE Technical Support Center

|                   |                       |
|-------------------|-----------------------|
| Internet:         | te.com/help           |
| USA:              | +1 (800) 522-6752     |
| Canada:           | +1 (905) 475-6222     |
| Mexico            | +52 (0) 55-1106-0800  |
| Latin/S. America: | +54 (0) 11-4733-2200  |
| Germany:          | +49 (0) 6251-133-1999 |
| UK:               | +44 (0) 800-267666    |
| France:           | +33 (0) 1-3420-8686   |
| Netherlands:      | +31 (0) 73-6246-999   |
| China:            | +86 (0) 400-820-6015  |

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\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Работу по проектам и поставку образцов.
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