

### 851-005

## TURBOFLEX CRIMP TERMINAL LUGS



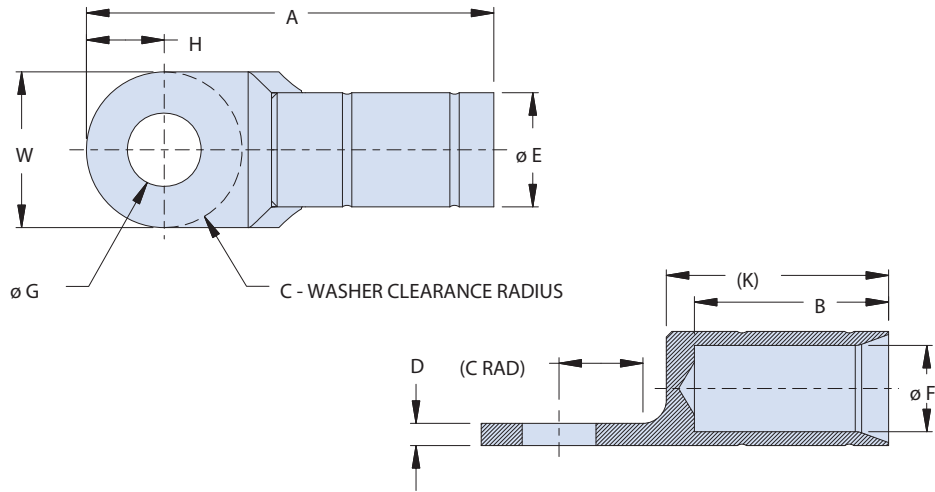
#### FEATURES

- Glenair 851 Series crimp terminal lugs are constructed from precision-machined high-conductivity copper alloy, purpose-built to fit TurboFlex high-flexibility power distribution cable
- Performance far exceeds commonly-used stamped and formed mil spec lugs

#### MATERIAL SPECIFICATIONS

Lug material: High-conductivity copper alloy  
 Finish: Tin plate per ASTM B545 or Nickel plate per AMS2403, AMS 2404, or AMS2424

| HOW TO ORDER                      |   |   |     |       |    |
|-----------------------------------|---|---|-----|-------|----|
| <b>Sample Part Number</b>         | 851-005   | C | 164 | -CUSN | -1 |
| <b>Basic Part Number</b>          | Crimp Terminal Lugs for TurboFlex cable   |   |     |       |    |
| <b>AWG Code / Size</b>            | See Size Code table   |   |     |       |    |
| <b>Nominal Stud Size Dash No.</b> | See Dimensions table  |   |     |       |    |
| <b>Material / Finish</b>          | CUSN = Copper / Tin (max. temperature 175°C)<br>CUNI = Copper / Nickel (max. temperature 260°C) |   |     |       |    |
| <b>Autoshrink Option</b>          | Add dash no. to include Autoshrink (See Tables).<br>Omit for lug only.                          |   |     |       |    |



| COPPER TERMINAL CRIMP TOOL AND DIE SET |                         |                         |                        |                        |
|--|-------------------------|-------------------------|------------------------|------------------------|
| Lug Size                               | AS5259/1 Crimping Head* | AS5259/4 Crimping Head* | AS5259/3 Crimping Tool | AS5259/5 Crimping Tool |
|  | Die Set                 | Die Set                 | Die Set                | Die Set                |
| 8                                      | MS90485-8               | M5259/7-001             | MS90485-8              | M5259/7-001            |
| 4                                      | MS90485-4               | M5259/7-003             | MS90485-4              | M5259/7-003            |
| 2                                      | MS90485-2               | M5259/7-004             | MS90485-2              | M5259/7-004            |
| 0                                      | MS90485-01              | M5259/7-006             | MS90485-01             | M5259/7-006            |
| 00                                     | MS90485-02              | M5259/7-007             | MS90485-02             | M5259/7-007            |
| 000                                    | MS90485-03              | N/A                     | N/A                    | N/A                    |
| 0000                                   | MS90485-04              | N/A                     | N/A                    | N/A                    |

\*Requires Pump per AS5259/2.

Removal or cutting off of flash after crimping will result in exposed base metal. Glenair Autoshrink may be applied over the crimp barrel and wire, to environmentally protect exposed area. (see How to Order for Autoshrink option)

| AUTOSHRINK DASH NO. |        |
|---------------------|--------|
| Code                | Color  |
| -0                  | Black  |
| -1                  | Brown  |
| -2                  | Red    |
| -3                  | Orange |
| -4                  | Yellow |
| -5                  | Green  |
| -6                  | Blue   |
| -7                  | Violet |
| -8                  | Gray   |
| -9                  | White  |

| AUTOSHRINK BASE PART NUMBER |                  |
|-----------------------------|------------------|
| Terminal Base               | Base P/N (Ref.)  |
| 8                           | 777-035-0156-1.5 |
| 4                           | 777-035-0250-2   |
| 2                           | 777-035-0250-2   |
| 0                           | 777-004-02-2     |
| 00                          | 777-004-02-2     |
| 000                         | 777-004-02-3     |
| 0000                        | 777-004-02-3     |

| SIZE CODE     |   |   |   |   |    |     |      |
|---------------|---|---|---|---|----|-----|------|
| Terminal Size | 8 | 4 | 2 | 0 | 00 | 000 | 0000 |
| AWG Code      | C | E | F | G | H  | I   | J    |

| WIRE STRIP LENGTH |                |                |                 |                 |                 |                 |                 |
|-------------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Terminal Size     | 8              | 4              | 2               | 0               | 00              | 000             | 0000            |
| Strip Length      | .70<br>(17.78) | .87<br>(22.10) | 1.03<br>(26.16) | 1.09<br>(27.69) | 1.21<br>(30.73) | 1.42<br>(36.07) | 1.62<br>(41.15) |

# Crimp Terminal Lugs for TurboFlex

851-005

| DIMENSIONS               |           |             |                  |                  |                 |                |                |                              |                              |                 |                 |                  |                  |                   |
|--------------------------|-----------|-------------|------------------|------------------|-----------------|----------------|----------------|------------------------------|------------------------------|-----------------|-----------------|------------------|------------------|-------------------|
| Stud Size<br>Dash<br>No. | Wire Size | Stud Size   | A Max            | B Min            | C Min<br>Rad    | D              |                | Ø E.O.D.                     | Ø F.I.D.                     | G               |                 | W & H*           |                  | [K]               |
|                          |           |             |                  |                  |                 | Max            | Min            |                              |                              | Max             | Min             | Max              | Min              |                   |
| 164                      | 8         | 8 [.164]    | 1.284<br>(32.61) | .633<br>(16.08)  | .234<br>(5.94)  | .084<br>(2.13) | .064<br>(1.63) | .285 (7.24)<br>.275 (6.99)   | .183 (4.65)<br>.173 (4.39)   | .178<br>(4.52)  | .168<br>(4.27)  | .429<br>(10.90)  | .386<br>(9.80)   | [.72]<br>(18.29)  |
| 190                      | 8         | 10 [.190]   | 1.284<br>(32.61) | .633<br>(16.08)  | .234<br>(5.94)  | .084<br>(2.13) | .064<br>(1.63) | .285 (7.24)<br>.275 (6.99)   | .183 (4.65)<br>.173 (4.39)   | .203<br>(5.16)  | .193<br>(4.90)  | .429<br>(10.90)  | .386<br>(9.80)   | [.72]<br>(18.29)  |
| 250                      | 8         | 1/4 [.250]  | 1.340<br>(34.04) | .633<br>(16.08)  | .265<br>(6.73)  | .084<br>(2.13) | .064<br>(1.63) | .285 (7.24)<br>.275 (6.99)   | .183 (4.65)<br>.173 (4.39)   | .275<br>(6.99)  | .260<br>(6.60)  | .478<br>(12.14)  | .435<br>(11.05)  | [.72]<br>(18.29)  |
| 190                      | 4         | 10 [.190]   | 1.715<br>(43.56) | .800<br>(20.32)  | .276<br>(7.01)  | .096<br>(2.44) | .076<br>(1.93) | .438 (11.13)<br>.428 (10.87) | .297 (7.54)<br>.287 (7.29)   | .203<br>(5.16)  | .193<br>(4.90)  | .628<br>(15.95)  | .580<br>(14.73)  | [.95]<br>(24.13)  |
| 250                      | 4         | 1/4 [.250]  | 1.715<br>(43.56) | .800<br>(20.32)  | .276<br>(7.01)  | .096<br>(2.44) | .076<br>(1.93) | .438 (11.13)<br>.428 (10.87) | .297 (7.54)<br>.287 (7.29)   | .275<br>(6.99)  | .260<br>(6.60)  | .628<br>(15.95)  | .580<br>(14.73)  | [.95]<br>(24.13)  |
| 312                      | 4         | 5/16 [.312] | 1.760<br>(44.70) | .800<br>(20.32)  | .308<br>(7.82)  | .096<br>(2.44) | .076<br>(1.93) | .438 (11.13)<br>.428 (10.87) | .297 (7.54)<br>.287 (7.29)   | .338<br>(8.59)  | .323<br>(8.20)  | .648<br>(16.46)  | .605<br>(15.37)  | [.95]<br>(24.13)  |
| 375                      | 4         | 3/8 [.375]  | 1.780<br>(45.21) | .800<br>(20.32)  | .328<br>(8.33)  | .096<br>(2.44) | .076<br>(1.93) | .438 (11.13)<br>.428 (10.87) | .297 (7.54)<br>.287 (7.29)   | .400<br>(10.16) | .385<br>(9.78)  | .648<br>(16.46)  | .605<br>(15.37)  | [.95]<br>(24.13)  |
| 312                      | 2         | 5/16 [.312] | 2.002<br>(50.85) | .960<br>(24.38)  | .343<br>(8.71)  | .109<br>(2.77) | .089<br>(2.26) | .532 (13.51)<br>.522 (13.26) | .371 (9.42)<br>.361 (9.17)   | .338<br>(8.59)  | .323<br>(8.20)  | .711<br>(18.06)  | .668<br>(16.97)  | [1.13]<br>(28.70) |
| 375                      | 2         | 3/8 [.375]  | 2.002<br>(50.85) | .960<br>(24.38)  | .343<br>(8.71)  | .109<br>(2.77) | .089<br>(2.26) | .532 (13.51)<br>.522 (13.26) | .371 (9.42)<br>.361 (9.17)   | .400<br>(10.16) | .385<br>(9.78)  | .711<br>(18.06)  | .668<br>(16.97)  | [1.13]<br>(28.70) |
| 437                      | 2         | 7/16 [.437] | 2.153<br>(54.69) | .960<br>(24.38)  | .453<br>(11.51) | .109<br>(2.77) | .089<br>(2.26) | .532 (13.51)<br>.522 (13.26) | .371 (9.42)<br>.361 (9.17)   | .463<br>(11.76) | .448<br>(11.38) | .804<br>(20.42)  | .740<br>(18.80)  | [1.13]<br>(28.70) |
| 375                      | 0         | 3/8 [.375]  | 2.207<br>(56.06) | 1.018<br>(25.86) | .418<br>(10.62) | .125<br>(3.18) | .105<br>(2.67) | .615 (15.62)<br>.605 (15.37) | .466 (11.84)<br>.456 (11.58) | .400<br>(10.16) | .385<br>(9.78)  | .853<br>(21.67)  | .810<br>(20.57)  | [1.19]<br>(30.23) |
| 437                      | 0         | 7/16 [.437] | 2.267<br>(57.58) | 1.018<br>(25.86) | .453<br>(11.51) | .125<br>(3.18) | .105<br>(2.67) | .615 (15.62)<br>.605 (15.37) | .466 (11.84)<br>.456 (11.58) | .463<br>(11.76) | .448<br>(11.38) | .903<br>(22.94)  | .860<br>(21.84)  | [1.19]<br>(30.23) |
| 500                      | 0         | 1/2 [.500]  | 2.267<br>(57.58) | 1.018<br>(25.86) | .453<br>(11.51) | .125<br>(3.18) | .105<br>(2.67) | .615 (15.62)<br>.605 (15.37) | .466 (11.84)<br>.456 (11.58) | .525<br>(13.34) | .510<br>(12.95) | .903<br>(22.94)  | .860<br>(21.84)  | [1.19]<br>(30.23) |
| 375                      | 00        | 3/8 [.375]  | 2.436<br>(61.87) | 1.141<br>(28.98) | .473<br>(12.01) | .129<br>(3.28) | .109<br>(2.77) | .691 (17.55)<br>.681 (17.30) | .523 (13.28)<br>.513 (13.03) | .400<br>(10.16) | .385<br>(9.78)  | .956<br>(24.28)  | .913<br>(23.19)  | [1.31]<br>(33.27) |
| 437                      | 00        | 7/16 [.437] | 2.436<br>(61.87) | 1.141<br>(28.98) | .473<br>(12.01) | .129<br>(3.28) | .109<br>(2.77) | .691 (17.55)<br>.681 (17.30) | .523 (13.28)<br>.513 (13.03) | .463<br>(11.76) | .448<br>(11.38) | .956<br>(24.28)  | .913<br>(23.19)  | [1.31]<br>(33.27) |
| 500                      | 00        | 1/2 [.500]  | 2.436<br>(61.87) | 1.141<br>(28.98) | .473<br>(12.01) | .129<br>(3.28) | .109<br>(2.77) | .691 (17.55)<br>.681 (17.30) | .523 (13.28)<br>.513 (13.03) | .525<br>(13.34) | .510<br>(12.95) | .956<br>(24.28)  | .913<br>(23.19)  | [1.31]<br>(33.27) |
| 375                      | 000       | 3/8 [.375]  | 2.752<br>(69.90) | 1.348<br>(34.24) | .513<br>(13.03) | .140<br>(3.56) | .120<br>(3.05) | .775 (19.68)<br>.765 (19.43) | .588 (14.94)<br>.578 (14.68) | .400<br>(10.16) | .385<br>(9.78)  | 1.053<br>(26.75) | 1.010<br>(25.65) | [1.54]<br>(39.12) |
| 437                      | 000       | 7/16 [.437] | 2.752<br>(69.90) | 1.348<br>(34.24) | .513<br>(13.03) | .140<br>(3.56) | .120<br>(3.05) | .775 (19.68)<br>.765 (19.43) | .588 (14.94)<br>.578 (14.68) | .463<br>(11.76) | .448<br>(11.38) | 1.053<br>(26.75) | 1.010<br>(25.65) | [1.54]<br>(39.12) |
| 500                      | 000       | 1/2 [.500]  | 2.752<br>(69.90) | 1.348<br>(34.24) | .513<br>(13.03) | .140<br>(3.56) | .120<br>(3.05) | .775 (19.68)<br>.765 (19.43) | .588 (14.94)<br>.578 (14.68) | .525<br>(13.34) | .510<br>(12.95) | 1.053<br>(26.75) | 1.010<br>(25.65) | [1.54]<br>(39.12) |
| 375                      | 0000      | 3/8 [.375]  | 3.053<br>(77.55) | 1.547<br>(39.29) | .560<br>(14.22) | .150<br>(3.81) | .130<br>(3.30) | .865 (21.97)<br>.855 (21.72) | .656 (16.66)<br>.646 (16.41) | .400<br>(10.16) | .385<br>(9.78)  | 1.148<br>(29.16) | 1.095<br>(27.81) | [1.75]<br>(44.45) |
| 437                      | 0000      | 7/16 [.437] | 3.053<br>(77.55) | 1.547<br>(39.29) | .560<br>(14.22) | .150<br>(3.81) | .130<br>(3.30) | .865 (21.97)<br>.855 (21.72) | .656 (16.66)<br>.646 (16.41) | .463<br>(11.76) | .448<br>(11.38) | 1.148<br>(29.16) | 1.095<br>(27.81) | [1.75]<br>(44.45) |
| 500                      | 0000      | 1/2 [.500]  | 3.053<br>(77.55) | 1.547<br>(39.29) | .560<br>(14.22) | .150<br>(3.81) | .130<br>(3.30) | .865 (21.97)<br>.855 (21.72) | .656 (16.66)<br>.646 (16.41) | .525<br>(13.34) | .510<br>(12.95) | 1.148<br>(29.16) | 1.095<br>(27.81) | [1.75]<br>(44.45) |

TURBOFLEX CRIMP TERMINAL LUGS

\*H Max and Min dimensions shall be one half of the W Max and Min dimensions, respectively.