

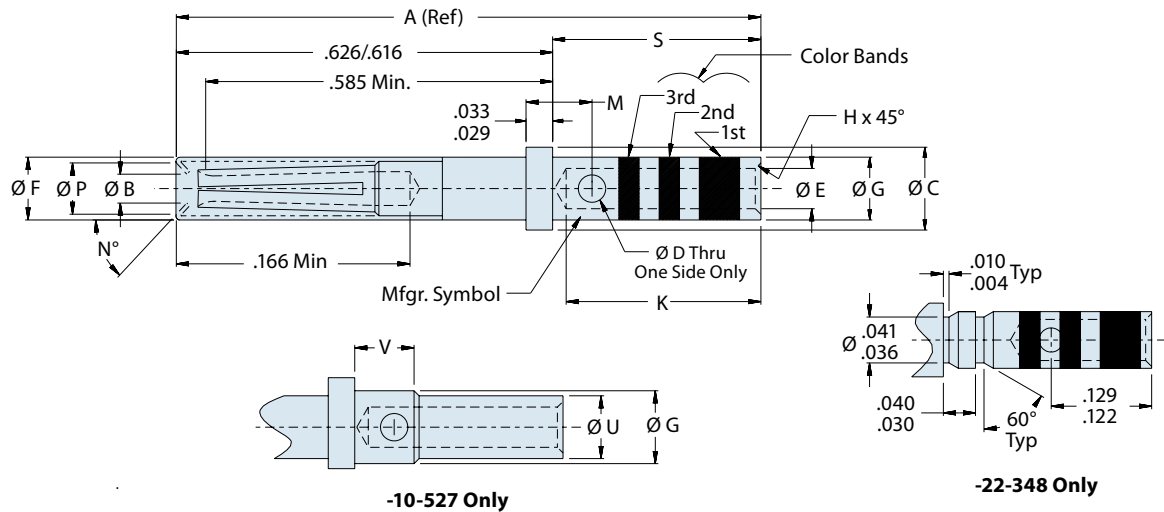
**D38999**  
 Ser. I, III, IV

**Standard Socket Crimp Contact for MIL-DTL-38999 Series I, III and IV Connectors**

A



| Mating End Size | Wire Accomodation | Military Part Number | Glenair Part Number   |
|-----------------|-------------------|----------------------|-----------------------|
| 22              | 22-28 AWG         | <b>M39029/56-348</b> | <b>850-001-22-348</b> |
| 20              | 20-24 AWG         | <b>M39029/56-351</b> | <b>850-001-20-351</b> |
| 16              | 16-20 AWG         | <b>M39029/56-352</b> | <b>850-001-16-352</b> |
| 12              | 12-14 AWG         | <b>M39029/56-353</b> | <b>850-001-12-353</b> |
| 10              | 10 AWG            | <b>M39029/56-527</b> | <b>850-001-10-527</b> |


**Material and Finish\***

Pin Contact: Copper Alloy/Gold Plated  
 Socket Contact: Copper Alloy/Gold Plated  
 Socket Contact Hood: Passivated Stainless Steel

\* See pages A-4 and A-5 for detailed material specifications

**M39029/56  
850-001  
Standard Duty Electrical Socket Contact**



AS39029

A

**TABLE I: CONTACT DIMENSIONS**

| Size | Part Number    | Military Number | A (ref) | Ø B Min. | Ø C          | Ø D          | Ø E            | Ø F Max | Ø G          | Ø H          | K Min        |
|------|----------------|-----------------|---------|----------|--------------|--------------|----------------|---------|--------------|--------------|--------------|
| 22   | 850-001-22-348 | M39029/56-348   | .855    | .031     | .062<br>.060 | .022<br>.018 | .0355<br>.0335 | .062    | .048<br>.046 | .005<br>.003 | .141         |
| 20   | 850-001-20-351 | M39029/56-351   |         | .0415    | .094<br>.091 | .032<br>.026 | .048<br>.046   | .078    | .070<br>.068 | .010<br>.005 | .209         |
| 16   | 850-001-16-352 | M39029/56-352   |         | .064     | .130<br>.127 | .042<br>.036 | .068<br>.066   | .113    | .103<br>.101 | .010<br>.005 | .209         |
| 12   | 850-001-12-353 | M39029/56-353   |         | .0955    | .182<br>.179 | .042<br>.036 | .102<br>.098   | .161    | .151<br>.148 | .016<br>.005 | .209         |
| 10   | 850-001-10-527 | M39029/56-527   | 1.021   | .1265    | .242<br>.238 | .052<br>.046 | .140<br>.134   | .215    | .213<br>.207 | .016<br>.005 | .385<br>.355 |

**TABLE I (Continued): CONTACT DIMENSIONS**

| Size | Part Number    | Military Number | M            | N°         | Ø P Min | S            | Ø U          | V            | Color Bands |        |        |
|------|----------------|-----------------|--------------|------------|---------|--------------|--------------|--------------|-------------|--------|--------|
|      |                |                 |              |            |         |              |              |              | 1st         | 2nd    | 3rd    |
| 22   | 850-001-22-348 | M39029/56-348   | -            | 50°<br>44° | .047    | .237<br>.231 | -            | -            | Orange      | Yellow | Grey   |
| 20   | 850-001-20-351 | M39029/56-351   | .078<br>.072 | 47°<br>40° | .053    |              | -            | -            | Orange      | Green  | Brown  |
| 16   | 850-001-16-352 | M39029/56-352   | .088<br>.082 | 47°<br>40° | .084    |              | -            | -            | Orange      | Green  | Red    |
| 12   | 850-001-12-353 | M39029/56-353   | .088<br>.082 | 47°<br>40° | .118    |              | -            | -            | Orange      | Green  | Orange |
| 10   | 850-001-10-527 | M39029/56-527   | .115<br>.108 | Full R     | .146    | .405<br>.395 | .183<br>.177 | .121<br>.111 | Green       | Red    | Violet |

**TABLE II: TOOL COMPATIBILITY**

| Size | Part Number    | Military Number | AWG Handling   | Crimp Tool                                | Positioner   | Insertion Tool                  | Extraction Tool                 |
|------|----------------|-----------------|----------------|---|--|---------------------------------|---------------------------------|
| 22   | 850-001-22-348 | M39029/56-348   | 22, 24, 26, 28 | M22520/2-01<br>M22520/7-01                | M22520/2-07<br>M22520//7-05                        | M81969/14-01<br>M81969/8-01     | M81969/14-01<br>M81969/8-02     |
| 20   | 850-001-20-351 | M39029/56-351   | 20, 22, 24     | M22520/7-01<br>M22520/2-01<br>M22520/1-01 | M22520/7-08<br>M22520/2-10<br>M22520/1-04<br>(Red) | M81969/8-05<br>M81969/14-02     | M81969/8-06<br>M81969/14-02     |
| 16   | 850-001-16-352 | M39029/56-352   | 16, 18, 20     | M22520/1-01<br>M22520/7-01                | M22520/1-04 (Blue)<br>M22520/7-04                  | M81969/8-07<br>M81969/14-03     | M81969/8-08<br>M81969/14-03     |
| 12   | 850-001-12-353 | M39029/56-353   | 12, 14         | M22520/1-01                               | M22520/1-04<br>(Yellow)                            | M81969/8-09<br>M81969/14-04     | M81969/8-10<br>M81969/14-04     |
| 10   | 850-001-10-527 | M39029/56-527   | 10             | Daniels 1716P-1                           | Daniels 1716P-1                                    | M81969/14-05<br>and M81969/8-11 | M81969/14-05<br>and M81969/8-12 |