# AS85049/52 and MS3417
# Straight Strain Relief
## Self-Locking or Non-Self-Locking



| CONNECTOR DESIGNATOR: | |
|---|---|
| A | AS50151 Series AS34001 Crimp, MIL-DTL-26482 Series II, SAE-AS1703 Crimp Series III, MIL-DTL-83723 Series I & III |

**Basic Part Number** — **M85049/52**

**Dash No.** — **S** | **10** | **W**

**FOR NEW DESIGN USE AS85049/118**

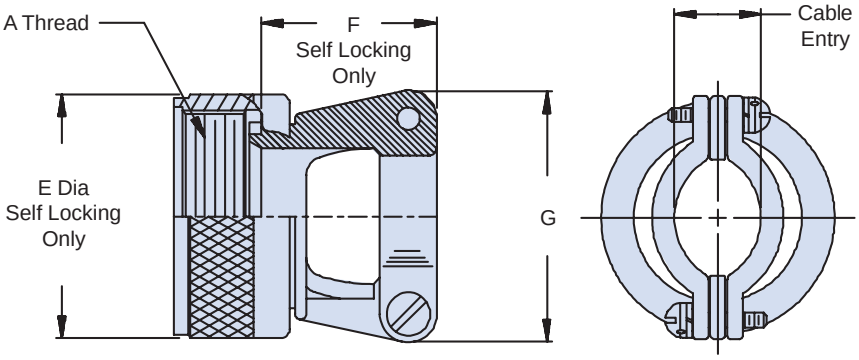
**S** = Self-Locking
**-1** = Non-Self-Locking
***N*** = *Non-Detented*

**Material and Finish Designator**
**A** = Aluminum, Black Anodize
**N** = Aluminum, Electroless Nickel
**S** = Stainless Steel, Passivate
**W** = Aluminum, 1000 Hr. Cadmium O.D. over Electroless Nickel

**Superseded Part Number**

**MS3417-10 A**

- Basic Part No. (Non-Self-Locking)
- Dash No.
- Metal and Finish Designator
  - A = Aluminum 1000 Hour Cadmium Olive Drab over Electroless Nickel
  - C = Aluminum, Cadmium Olive Drab
  - G = Aluminim Black Anodize
  - N = Aluminum, Electroless Nickel




### APPLICATION NOTES

1. Assembly to be identified with manufacturer's name and part number, space permitting.
2. Cable Entry is defined as the accommodation entry for the wire bundle or cable.
3. Dimensions are not intended for inspection criteria.
4. For complete dimensions, see the applicable Military Specification.
5. Metric dimensions (mm) are in parentheses.

### TABLE I: Shell Size, Cable Entry and Backshell Dimensions

| Dash No. | A Thread Class 2B | Ø E Max Self-Locking | | F Max Self-Locking | | G Max | | Cable Entry Min | | Cable Entry Max | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3*+ | .562 - 24 UNEF | - | - | - | - | .782 | (19.9) | .125 | (3.2) | .204 | (5.2) |
| 8 | .500 - 20 UNF | .885 | (22.5) | .73 | (18.5) | .782 | (19.9) | .125 | (3.2) | .204 | (5.2) |
| 10 | .625 - 24 UNEF | 1.010 | (25.7) | .85 | (21.6) | .862 | (21.9) | .187 | (4.7) | .286 | (7.3) |
| 12 | .750 - 20 UNEF | 1.135 | (28.8) | .98 | (24.9) | 1.003 | (24.6) | .291 | (7.4) | .416 | (10.6) |
| 14 | .875 - 20 UNEF | 1.260 | (32.0) | .98 | (24.9) | 1.061 | (25.5) | .351 | (8.9) | .476 | (12.1) |
| 16 | 1.000 - 20 UNEF | 1.385 | (35.2) | 1.10 | (27.9) | 1.234 | (26.9) | .501 | (12.7) | .626 | (15.9) |
| 18 | 1.062 - 18 UNEF | 1.510 | (38.4) | 1.35 | (34.3) | 1.466 | (35.4) | .518 | (13.2) | .706 | (17.9) |
| 20 | 1.188 - 18 UNEF | 1.635 | (41.5) | 1.98 | (50.3) | 1.572 | (37.2) | 581 | (14.8) | .831 | (21.1) |
| 22 | 1.313 - 18 UNEF | 1.760 | (44.7) | 2.73 | (69.3) | 1.688 | (39.9) | .644 | (16.4) | .956 | (24.3) |
| 24 | 1.438 - 18 UNEF | 1.885 | (47.9) | 2.88 | (73.2) | 1.790 | (43.1) | .706 | (17.9) | 1.081 | (27.5) |
| 28+ | 1.750 - 18 UNS | 2.135 | (54.2) | 2.528 | (64.2) | 2.035 | (45.5) | .750 | (19.1) | 1.187 | (30.1) |
| 32+ | 2.000 - 18 UNS | 2.395 | (60.8) | 2.591 | (65.8) | 2.386 | (51.7) | .875 | (22.2) | 1.250 | (31.8) |
| 36+ | 2.250 - 16 UN | 2.635 | (66.9) | 2.13 | (54.1) | 2.446 | (60.6) | .938 | (23.8) | 1.375 | (34.9) |
| 40+ | 2.500 - 16 UN | 2.885 | (73.3) | 2.44 | (62.0) | 2.566 | (65.2) | .938 | (23.8) | 1.500 | (38.1) |
| 44+ | 2.750 - 16 UN | 3.135 | (79.6) | 3.00 | (76.2) | 2.860 | (72.6) | 1.188 | (30.2) | 1.750 | (44.5) |
| 48+ | 3.000 - 16 UN | 3.385 | (86.0) | 3.40 | (86.4) | 3.344 | (84.9) | 1.312 | (33.3) | 1.875 | (47.6) |
| 61*+ | 1.500 - 18 UNEF | - | - | - | - | 1.775 | (45.1) | .706 | (17.9) | 1.081 | (27.5) |

* Not Available in Self Locking  + Not Available under M83723/15S

Dimensions in inches (millimeters) and are subject to change without notice.

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