



AS85049/51 and MS3418 90° 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

M85049/51

Dash No.

S

10

W

FOR NEW DESIGN
USE AS85049/120

Superseded Part Number

MS3418-10 C

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 = Aluminum Black Anodize
N = Aluminum, Electroless Nickel

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

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 | | F Max | | G | | H Max | Cable Entry | | | | |
|----------|-------------------|--------------|--------|--------------|--------|-------|--------|-------|-------------|-------|--------|-------|--------|
| | | Self-Locking | | Self-Locking | | ±.062 | (1.6) | | Min | Max | | | |
| 3*+ | .562 - 24 UNEF | - | - | - | - | .777 | (19.7) | .782 | (19.9) | .125 | (3.2) | .204 | (5.2) |
| 8 | .500 - 20 UNF | .885 | (22.5) | 1.257 | (31.9) | .746 | (18.9) | .782 | (19.9) | .125 | (3.2) | .204 | (5.2) |
| 10 | .625 - 24 UNEF | 1.010 | (25.7) | 1.339 | (34.0) | .805 | (20.4) | .862 | (21.9) | .187 | (4.7) | .286 | (7.3) |
| 12 | .750 - 20 UNEF | 1.135 | (28.8) | 1.532 | (38.9) | .867 | (22.0) | 1.003 | (25.5) | .291 | (7.4) | .416 | (10.6) |
| 14 | .875 - 20 UNEF | 1.260 | (32.0) | 1.592 | (40.4) | .930 | (23.6) | 1.061 | (26.9) | .351 | (8.9) | .476 | (12.1) |
| 16 | 1.000 - 20 UNEF | 1.385 | (35.2) | 1.741 | (44.2) | .994 | (25.2) | 1.334 | (33.9) | .501 | (12.7) | .626 | (15.9) |
| 18 | 1.062 - 18 UNEF | 1.510 | (38.4) | 1.853 | (47.1) | 1.171 | (29.7) | 1.466 | (37.2) | .518 | (13.2) | .706 | (17.9) |
| 20 | 1.188 - 18 UNEF | 1.635 | (41.5) | 1.978 | (50.2) | 1.234 | (31.2) | 1.572 | (39.9) | .581 | (14.8) | .831 | (21.1) |
| 22 | 1.313 - 18 UNEF | 1.760 | (44.7) | 2.108 | (53.5) | 1.296 | (32.9) | 1.688 | (42.9) | .644 | (16.4) | .956 | (24.3) |
| 24 | 1.438 - 18 UNEF | 1.885 | (47.9) | 2.228 | (56.6) | 1.358 | (34.5) | 1.790 | (45.5) | .706 | (17.9) | 1.081 | (27.5) |
| 28+ | 1.750 - 18 UNS | 2.135 | (54.2) | 2.528 | (64.2) | 1.572 | (39.9) | 2.035 | (51.7) | .750 | (19.1) | 1.187 | (30.1) |
| 32+ | 2.000 - 18 UNS | 2.395 | (60.8) | 2.591 | (65.8) | 1.797 | (45.6) | 2.386 | (60.6) | .875 | (22.2) | 1.250 | (31.8) |
| 36+ | 2.250 - 16 UN | 2.635 | (66.9) | 2.716 | (69.0) | 1.922 | (48.8) | 2.496 | (63.4) | .938 | (23.8) | 1.375 | (34.9) |
| 40+ | 2.500 - 16 UN | 2.885 | (73.3) | 2.841 | (72.2) | 2.047 | (52.0) | 2.566 | (65.2) | .938 | (23.8) | 1.500 | (38.1) |
| 44+ | 2.750 - 16 UN | 3.135 | (79.6) | 3.091 | (78.5) | 2.296 | (58.3) | 2.860 | (72.6) | 1.188 | (30.2) | 1.750 | (44.5) |
| 48+ | 3.000 - 16 UN | 3.385 | (86.0) | 3.216 | (81.7) | 2.421 | (61.5) | 3.344 | (84.9) | 1.312 | (33.3) | 1.875 | (47.6) |
| 61*+ | 1.500 - 18 UNEF | - | - | - | - | 1.388 | (35.3) | 1.775 | (45.1) | .706 | (17.9) | 1.081 | (27.5) |

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

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

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