



# 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#### Superseded Part Number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.