AS85049/47 and MS27507
90° Strain Relief
Self-Locking or Non-Self-Locking

CONNECTOR DESIGNATOR:	
F	MIL-DTL-38999 Series I and II

FOR NEW DESIGN USE AS85049/123

Material and Finish Designator
N = Aluminum, Electroless Nickel
S = 300 Series Steel, Passivated
W = Aluminum, 1000 Hour Cadmium Olive Drab over Electroless Nickel

Basic Part Number

M85049/47 S W 10

Dash No.

S = Self-Locking
Omit for Non-Self-Locking
N = Non-Detented, Self-Locking

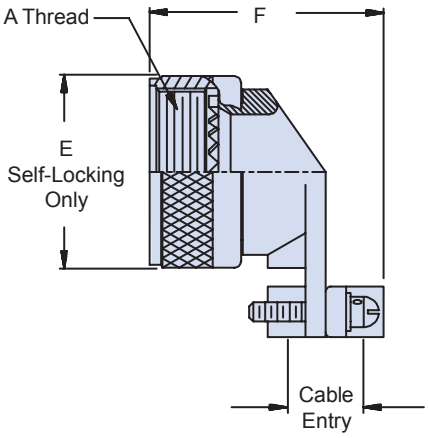
Superseded Part Number

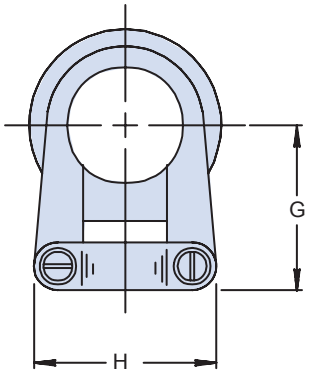
MS27507-B 10

Basic Part No. (Non-Self-Locking)

Dash No.

Metal and Finish Designator
A = Aluminum Cadmium Olive Drab over Electroless Nickel
C = Aluminum, Cadmium Olive Drab
N = Aluminum, Electroless Nickel
D = 300 Series Steel, Cadmium Black Plate
S = 300 Series Steel, Passivate





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.	Shell Size Ref.	A Thread Class 2B	Ø E Max		F Max		G Max		H Max		Cable Entry Min		Cable Entry Max	
8	8/9	.438 - 28 UNEF	.86	(21.8)	1.38	(35.1)	1.00	(25.4)	.85	(21.6)	.098	(2.5)	.234	(5.9)
10	10/11	.562 - 24 UNEF	.98	(24.9)	1.38	(35.1)	1.10	(27.9)	.90	(22.9)	.153	(3.9)	.234	(5.9)
12	12/13	.688 - 24 UNEF	1.16	(29.5)	1.46	(37.1)	1.10	(27.9)	1.10	(27.9)	.190	(4.8)	.328	(8.3)
14	14/15	.813 - 20 UNEF	1.28	(32.5)	1.63	(41.4)	1.25	(31.8)	1.15	(29.2)	.260	(6.6)	.457	(11.6)
16	16/17	.938 - 20 UNEF	1.41	(35.8)	1.80	(45.7)	1.30	(33.0)	1.30	(33.0)	.283	(7.2)	.614	(15.6)
18	18/19	1.063 - 18 UNEF	1.52	(38.6)	1.82	(46.2)	1.35	(34.3)	1.50	(38.1)	.325	(8.3)	.634	(16.1)
20	20/21	1.188 - 18 UNEF	1.64	(41.7)	1.90	(48.3)	1.60	(40.6)	1.60	(40.6)	.343	(8.7)	.698	(17.7)
22	22/23	1.313 - 18 UNEF	1.77	(45.0)	2.04	(51.8)	1.75	(44.5)	1.70	(43.2)	.381	(9.7)	.823	(20.9)
24	24/25	1.438 - 18 UNEF	1.89	(48.0)	2.15	(54.6)	1.85	(47.0)	1.80	(45.7)	.418	(10.6)	.853	(21.7)

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

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