

AS85049/31, MS3416 and MIL-DTL-85723/15N Self-Locking and Non-Self-Locking E-Nut

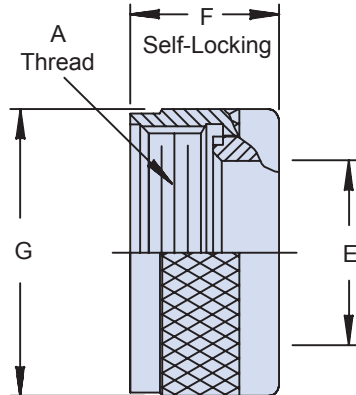


AS85049

CONNECTOR DESIGNATOR:

A

AS50151 Series AS34001 Crimp,
MIL-DTL-26482 Series II,
SAE AS81703 Crimp Series III,
MIL-DTL-83723 Series I,
MIL-DTL-83723 Series III



Basic Part
Number

M85049/31

Finish

A = Anodize, Black
N = Electroless Nickel
W = 1,000 Hour Cadmium Olive Drab
over Electroless Nickel
X = Nickel Fluorocarbon Polymer
Y = Pure Dense Electrodeposited
Aluminum
Z = Zinc-Nickel, Black

S

22

W

S = Self-Locking
N = Non-Detented
Use Dash for
Non-Self-Locking

Shell
Size

Superseded Part Number

M83723/15N-10 A

Basic Part No.
(Non-Self-
Locking Only)

Dash
No.

Finish Designator
A = Non-Conductive, Black Anodize
R = Conductive, Electroless Nickel

Superseded Part Number

MS3416 -10-E A

Dash No.

Basic Part No.
(Non-Self-
Locking Only)

Style

Metal and Finish Designator
A = Aluminum 500 Hour Cad. Olive
Drab Over Electroless Nickel
C = Aluminum, Cadmium Olive Drab
G = Aluminum, Black Anodize
N = Aluminum, Electroless Nickel

APPLICATION NOTES

- For complete dimensions, see the applicable Military Specification.
- Metric dimensions (mm) are indicated in parentheses.

TABLE I: Shell Size, Thread and Dimensions

Shell Size	A Thread Class 2B	Ø E Max	F Max	Ø G Max
3	.562 - 24 UNEF	.270 (6.9)	--	--
8	.500 - 20 UNF	.270 (6.9)	.710 (18.0)	.885 (22.5)
10	.625 - 24 UNEF	.375 (9.5)	.710 (18.0)	1.010 (25.7)
12	.750 - 20 UNEF	.511 (13.0)	.710 (18.0)	1.135 (28.8)
14	.875 - 20 UNEF	.585 (14.9)	.710 (18.0)	1.260 (32.0)
16	1.000 - 20 UNEF	.710 (18.0)	.710 (18.0)	1.385 (35.2)
18	1.062 - 18 UNEF	.789 (20.0)	.710 (18.0)	1.510 (38.4)
20	1.188 - 18 UNEF	.914 (23.2)	.710 (18.0)	1.635 (41.5)
22	1.313 - 18 UNEF	1.039 (26.4)	.710 (18.0)	1.760 (44.7)
24	1.438 - 18 UNEF	1.154 (29.3)	.710 (18.0)	1.885 (47.9)
28	1.750 - 18 UNS	1.389 (35.3)	.890 (22.6)	2.135 (54.2)
32	2.000 - 18 UNS	1.635 (41.5)	.890 (22.6)	2.395 (60.8)
36	2.250 - 16 UN	1.850 (47.0)	.890 (22.6)	2.635 (66.9)
40	2.500 - 16 UN	2.065 (52.5)	.890 (22.6)	2.885 (73.3)
44	2.750 - 16 UN	2.320 (58.9)	.890 (22.6)	3.135 (79.6)
48	3.000 - 16 UN	2.570 (65.3)	.890 (22.6)	3.385 (86.0)
61	1.500 - 18 UNEF	1.194 (30.3)	--	--

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

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Mil-Spec Backshells

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Mouser Electronics

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Glenair:

M85049/31S14W	M85049/31S20W	M85049/31S10W	M85049/31S12W	M85049/31S16W	M85049/31S24W
M85049/31N10A	M85049/31N10N	M85049/31N10W	M85049/31N12A	M85049/31N12N	M85049/31N12W
M85049/31N14A	M85049/31N14N	M85049/31N14W	M85049/31N16A	M85049/31N16N	M85049/31N16W
M85049/31N18A	M85049/31N18N	M85049/31N18W	M85049/31N20A	M85049/31N20N	M85049/31N20W
M85049/31N22A	M85049/31N22N	M85049/31N22W	M85049/31N24A	M85049/31N24N	M85049/31N24W
M85049/31N28A	M85049/31N28N	M85049/31N28W	M85049/31N32A	M85049/31N32N	M85049/31N32W
M85049/31N36A	M85049/31N36N	M85049/31N36W	M85049/31N40A	M85049/31N40N	M85049/31N40W
M85049/31N44A	M85049/31N44N	M85049/31N44W	M85049/31N48A	M85049/31N48N	M85049/31N48W
M85049/31N8A	M85049/31N8N	M85049/31N8W	M85049/31S24A	M85049/31S22A	M85049/31S24N
M85049/31S36A	M85049/31S28A	M85049/31S44N	M85049/31S44W	M85049/31S18N	M85049/31S20A
M85049/31S10N	M85049/31S28N	M85049/31S36N	M85049/31S40N	M85049/31S8W	M85049/31S16A
M85049/31S18W	M85049/31S28W	M85049/31S32N	M85049/31S48N	M85049/31S16N	M85049/31S22W
M85049/31S44A	M85049/31S48A	M85049/31S22N	M85049/31S32W	M85049/31S36W	M85049/31S8N
M85049/31S10A	M85049/31S14N	M85049/31S12N	M85049/31S18A	M85049/31S14A	M85049/31S20N
M85049/31S32A	M85049/31S40A	M85049/31S40W	M85049/31S48W	M85049/31S8A	M85049/31S12A