INCH-POUND
MS27512G
12 July 2002
SUPERSEDING
MS27512F
26 July 1990

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, NUT, HEXAGON, CONNECTOR MOUNTING, SERIES II

This specification is approved for use by all Departments and Agencies of the Department of Defense

The requirements for acquiring the connectors described herein shall consist of this specification sheet and MIL-DTL-38999.

Inactive for new design, use MS3186.

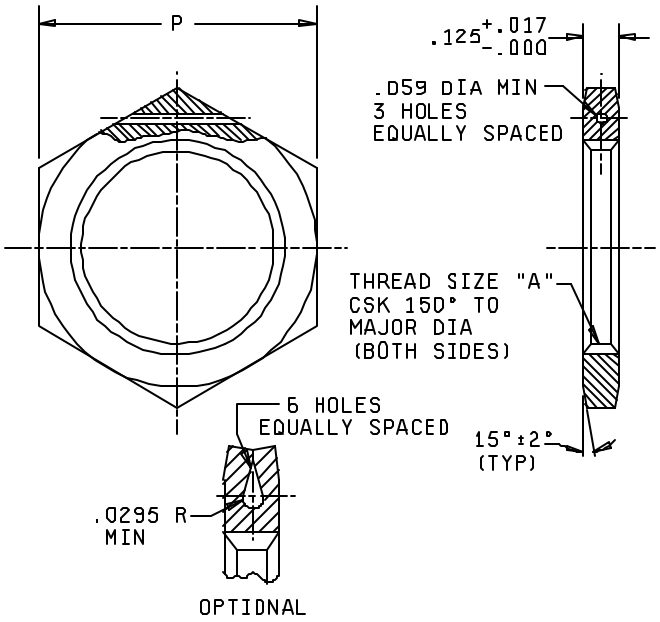


FIGURE 1. ~~Nut, hexagon~~.

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Shell size	A Thread size, class 2B	P +.017 -.016 hex
8	.8750 – 20 UNEF	1.062
10	1.0000– 20 UNEF	1.188
12	1.1250– 18 UNEF	1.312
14	1.2500– 18 UNEF	1.438
16	1.3750– 18 UNEF	1.562
18	1.5000– 18 UNEF	1.688
20	1.6250– 18 UNEF	1.812
22	1.7500– 18 UNS	2.000
24	1.8750– 16 UN	2.125

Inches	mm	Inches	mm
.016	0.41	1.312	33.32
.0147	0.43	1.438	36.53
.0295	0.750	1.562	39.67
.059	1.50	1.688	42.88
.125	3.18	2.000	50.80
1.062	26.97	2.125	53.98
1.188	30.18		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Threads to be in accordance with MIL-S-7742.
4. Remove all burrs and sharp edges.

FIGURE 1. ~~Nut, hexagon~~ – Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1.
Material: See table I.
Finish: See table I and MIL-DTL-38999.
Applicable connectors: MIL-DTL-38999, series II.
Safety wire hole pull out:
Safety wire holes shall not pull out when safety wire NI – CU alloy (MONEL) (UNS NO4400) or NI – CR alloy (INCONEL) (UNS NO6600) .020 inch (0.51 mm) diameter in accordance with NASM20995 is threaded through a hole and a pull of 30 pounds (133.5 Newton) minimum is applied. Three pulls shall be made, one parallel with axis of nut in each direction and one perpendicular to axis of nut.

TABLE I. ~~Material and finish~~. ~~1~~/

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Code	Material	Finish 3/
A	Impact extruded or machined Aluminum Alloy	A and D
B		B
C		C
F		F
E	Corrosion resistant steel 2/	E

1/ See corresponding MIL-DTL-38999.

2/ Shall be cleaned, descaled and passivated in accordance with ASTM A380.

3/ Applicable to MIL-DTL-38999 series II connectors.

QUALIFICATION:

Examination of product.
Safety wire hole pull out (see requirements).
Salt spray (corrosion).

Group A sampling inspection. 100% inspection is not applicable. Sampling inspection shall be in accordance with table I:

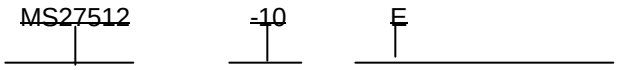
TABLE I. Group A sampling plan.

Lot size	Sample size
1 to 13	100 percent
14 to 150	13 units
151 to 280	20 units
281 to 500	29 units
501 to 1,200	34 units
1,201 to 3,200	42 units

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Part or Identifying Number (PIN) example:



CONCLUDING MATERIAL

Custodians:
Army – CR
Navy – AS
Air Force – 11
DLA – CC

Review activities:
Army – AR, MI
Navy – EC, MC, OS
Air Force – 19,99

Preparing activity:
DLA – CC

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