

INCH-POUND

MS18196G  
23 June 2016  
SUPERSEDING  
MS18196F  
w/AMENDMENT 3  
16 May 2014

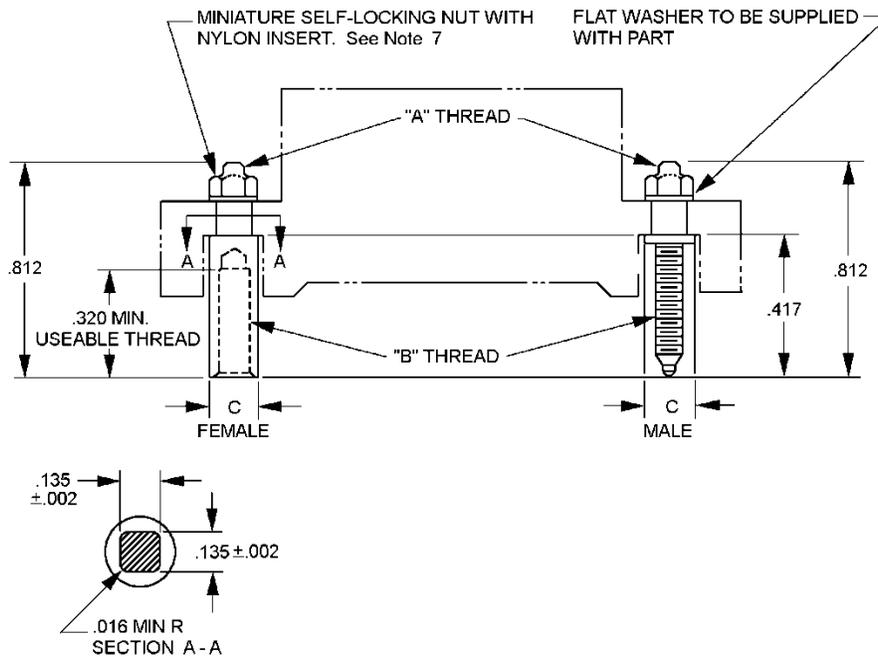
### DETAIL SPECIFICATION SHEET

### JACKSCREW, ELECTRICAL CONNECTOR, MALE AND FEMALE, FIXED

Reinstated after 10 July 2009 and may be used for new and existing designs and acquisitions.

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

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-28748.



Inches	mm
.002	0.05
.016	0.41
.135	3.43
.320	8.13
.417	10.59
.812	20.62

FIGURE 1. Fixed jackscrew male and female.

AMSC N/A

FSC 5935



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Fixed jackscrew designator	Gender	Connector size (number of contacts)	A Thread class 2	B Thread class 2	C dia max	D		E ref	F		G ref	H Thread
						max	min		max	min		
MS18196-1	Male	7, 9, 14, 18, 20, 26, 34, 42, 50, 66, 75	4-40 UNC-2A .112-40 UNC	6-32 UNC-2A .138-32 UNC	.190 (4.83)	.190 (4.83)	.181 (4.60)	.205 (5.21)	.125 (3.18)	.095 (2.41)	.070 (1.78)	4-40 UNC-3B
MS18196-2	Female	7, 9, 14, 18, 20, 26, 34, 42, 50, 66, 75	4-40 UNC-2A .112-40 UNC	6-32 UNC-2B .138-32 UNC	.190 (4.83)	.190 (4.83)	.181 (4.60)	.205 (5.21)	.125 (3.18)	.095 (2.41)	.070 (1.78)	4-40 UNC-3B
MS18196-3	Male	104	6-32 UNC-2A .138-32 UNC	8-32 UNC-2A .164-32 UNC	.225 (5.72)	.252 (6.40)	.240 (6.10)	.275 (6.99)	.153 (3.89)	.133 (3.38)	.081 (2.06)	6-32 UNC-3B
MS18196-4	Female	104	6-32 UNC-2A .138-32 UNC	8-32 UNC-2B .164-32 UNC	.225 (5.72)	.252 (6.40)	.240 (6.10)	.275 (6.99)	.153 (3.89)	.133 (3.38)	.081 (2.06)	6-32 UNC-3B

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are  $\pm 0.016$  inch (0.41 mm).
4. Material corrosion resistance steel in accordance with ASTM A276/A276M, ASTM A473, ASTM A581/A581M, ASTM A582/A582M, SAE AMS5636, SAE AMS5639, SAE AMS5648, classes 302, 303, 303Se, 304 or 316 except for aluminum alloy knob and .040 inch (1.02 mm) flat washer.
5. Finish passivated in accordance with ASTM A967/A967M or SAE AMS2700 except for anodized knob.
6. Jackscrew may have .005 inch (0.13) minimum vertical float.
7. Miniature self-locking nut with nylon insert shall be in accordance with figure 2. Material and finish shall be in accordance with notes 4 and 5.

FIGURE 1. Fixed jackscrew male and female. – Continued.

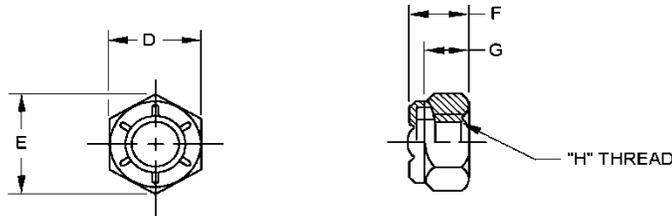


FIGURE 2. Self-locking nut.

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Fixed jackscrew male and female. See figure 1.  
Self-locking nut. See figure 2.

Qualification: Qualified sources for MIL-DTL-28748/1 through MIL-DTL-28748/6 that meet the qualification testing requirements in MIL-DTL-28748 require no further testing for the hardware.

Qualification of hardware only: the hardware shall be installed in a qualified connector and shall be subjected to the tests below in accordance with MIL-DTL-28748. Sample size, if qualifying all hardware configurations, shall be two connector pairs.

Visual and mechanical inspection  
Vibration  
Shock  
Salt spray

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the previous issue.

Referenced documents. In addition to MIL-DTL-28748, this document references the following:

MIL-DTL-28748/1  
MIL-DTL-28748/2  
MIL-DTL-28748/3  
MIL-DTL-28748/4  
MIL-DTL-28748/5  
MIL-DTL-28748/6  
ASTM A276/A276M  
ASTM A473  
ASTM A581/A581M  
ASTM A582/A582M  
ASTM A967/A967M  
SAE AMS2700  
SAE AMS5636  
SAE AMS5639  
SAE AMS5648

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CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 85  
DLA - CC

Preparing activity:  
DLA - CC

Review activities:

Army - AM, AR, AT, CR4, MI  
Navy - AS, MC, OS, SH  
Air Force - 99

(Project 5935-2016-090)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.