

INCH-POUND

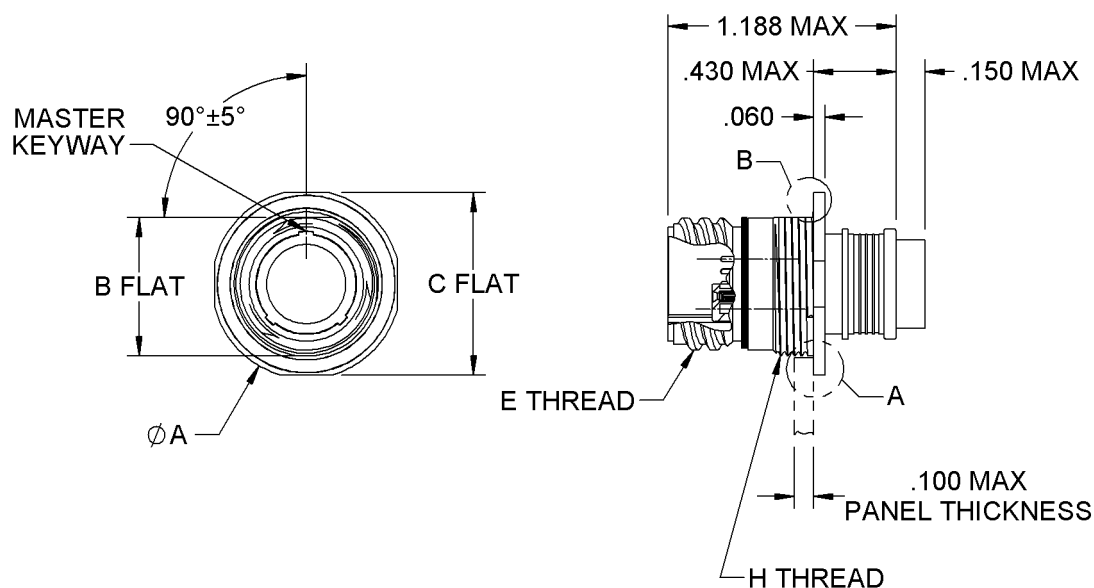
MIL-DTL-32689/1
w/AMENDMENT 3
27 July 2026
SUPERCEEDING
MIL-DTL-32689/1
w/AMENDMENT 2
14 March 2024

DETAIL SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, RECEPTACLE, JAM-NUT MOUNTED, TRI-START THREADED, REMOVABLE CRIMP CONTACTS

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

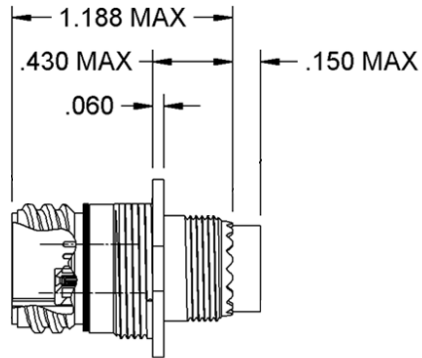
The requirements for acquiring the product described herein
shall consist of this specification sheet and MIL-DTL-32689.



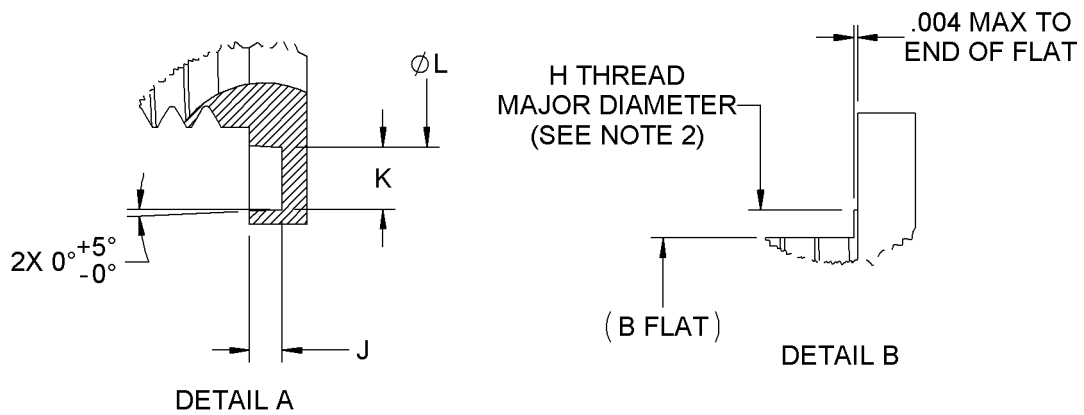
Front view of receptacle (left) and receptacle with integral banding platform (right)

FIGURE 1. Receptacle, jam-nut.





Receptacle with rear accessory threads



Receptacle detail

FIGURE 1. Receptacle, jam-nut – Continued.

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Shell size	A dia $\pm .010$	B flat $\pm .005$	C flat $\pm .010$	F dia (shell style 1 only)
08	.772	.530	.742	.317
09	.900	.658	.870	.397
10	.900	.658	.870	.473
11	.975	.718	.945	.519
12	1.091	.778	1.061	.585
15	1.220	.965	1.190	.687
18	1.388	1.145	1.358	.884
19	1.450	1.216	1.420	.884
23	1.723	1.465	1.693	1.135

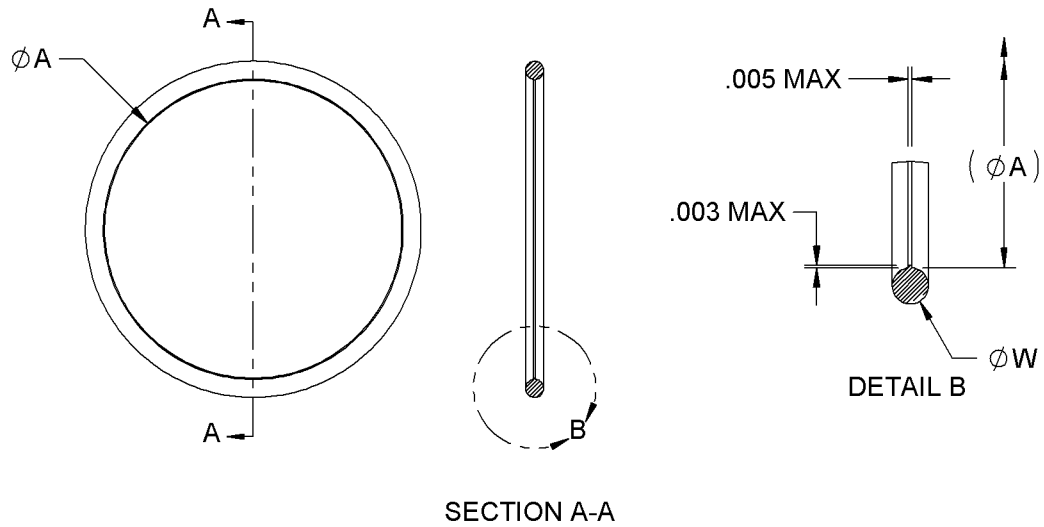
Shell size	H thread (mounting nut coupling thread)	Mounting nut dash number	J (o-ring groove depth) + .002	K (o-ring groove height) + .002	L dia ±.005
08	.5625-28 UN-2A	09	.034	.065	.585
09	.6875-28 UN-2A	11			.713
10	.6875-28 UN-2A	11			.713
11	.7500-28 UN-2A	12			.788
12	.8125-28 UN-2A	13			.904
15	1.0000-28 UN-2A	16			1.033
18	1.1875-28 UN-2A	19			1.201
19	1.2500-28 UN-2A	20			1.263
23	1.5000-28 UN-2A	24			1.536
E thread: see base specification					

NOTES:

1. Dimensions are in inches. Metric equivalents are given for information only.
2. B flat: Dimension measured from flat to major diameter of H thread.
3. To ensure full mating of the plug or full coupling of the backshell, the thickness of the mounting panel should not exceed the .100 max.
4. For connector front and rear configuration details, see MIL-DTL-32689.

FIGURE 1. Receptacle, jam-nut – Continued.

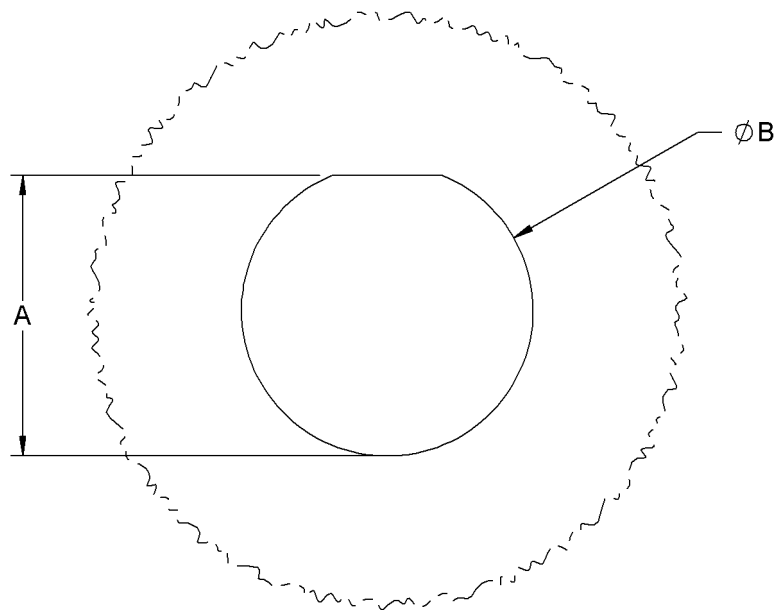
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Shell size	A dia $\pm .008$ ID	W max OD cross-section
08	.578	.047
09	.709	
10	.709	
11	.780	
12	.894	
15	1.024	
18	1.201	
19	1.257	
23	1.530	

FIGURE 2. O-ring dimensions.

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Recommended panel cutout		
Shell size	A flat ($\pm .002$)	B dia ($\pm .005$)
08	.543	.572
09	.669	.698
10	.669	.698
11	.729	.760
12	.792	.822
15	.978	1.010
18	1.155	1.198
19	1.231	1.260
23	1.480	1.510

FIGURE 3. Receptacle, jam nut mount, recommended panel cutout.

REQUIREMENTS:

Jam-nut mounting receptacles shall be provided with mounting nuts (see section 6 of base specification for application data). Major diameter of the nut shall match the major diameter of the receptacle. Nut class shall match receptacle. Jam nut style shall be specified in the receptacle part number for ordering purposes. Receptacles with part numbers varying only by the jam nut style character are identical and interchangeable except for the nut used for mounting. Jam nut mounting receptacles shall include an external fluorosilicone O-ring.

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Dimensions and configuration: see figures.

Interface dimensions shall conform to MIL-DTL-32689.

Part or Identifying Number (PIN) example:

M32689/1 - 1 E 08 - 07 P A H

<u>M32689/1</u>	"M" prefix, base spec number, "/", and specification sheet number
<u>1</u>	Shell style
<u>E</u>	Class
<u>08</u>	Shell size (two digits, zero pad if single digit)
<u>07</u>	Insert arrangement (two digits, zero pad if single digit)
<u>P</u>	Contact style
<u>A</u>	Polarization
<u>H</u>	Jam Nut Style

Style	Nut Geometry	Safety Hole	Spec
H	Hex Nut	Drilled Safety Hole	MIL-DTL-32689/4
S	Spanner Nut	No Safety Hole	MIL-DTL-32689/5

Referenced documents. In addition to MIL-DTL-32689, this document references the following:

MIL-DTL-32689/4
MIL-DTL-32689/5

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

CONCLUDING MATERIAL

Custodians:

Army – CR
Navy - AS
Air Force – 85
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2026-040)

Review activities:

Navy – EC, SH

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>.