

INCH-POUND

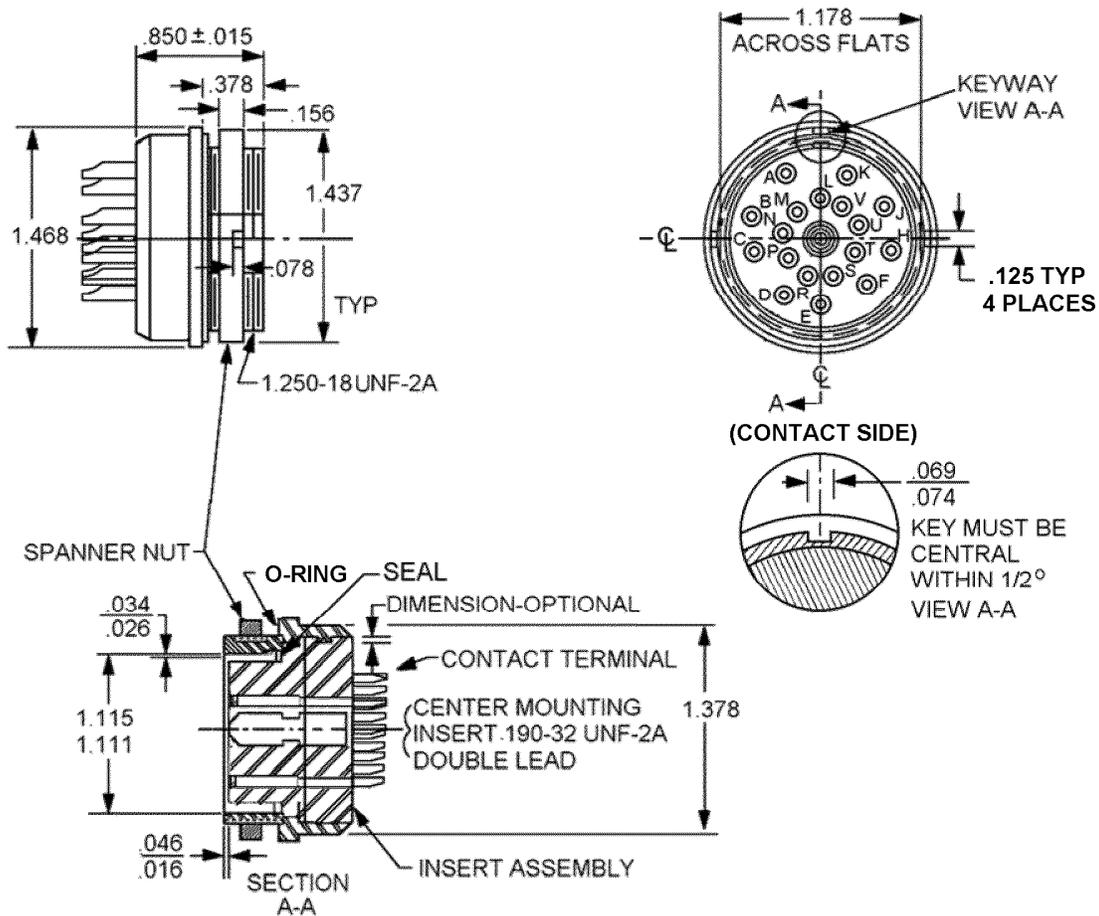
MIL-DTL-55181/8D  
w/AMENDMENT 1  
19 October 2009  
SUPERSEDING  
MIL-DTL-55181/8D  
10 March 2008

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, WATERPROOF,  
PANEL MOUNT, 18 CONTACTS, 7.5 AMP

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-55181.



CONNECTOR ASSEMBLY

FIGURE 1. Dimensions and configurations.

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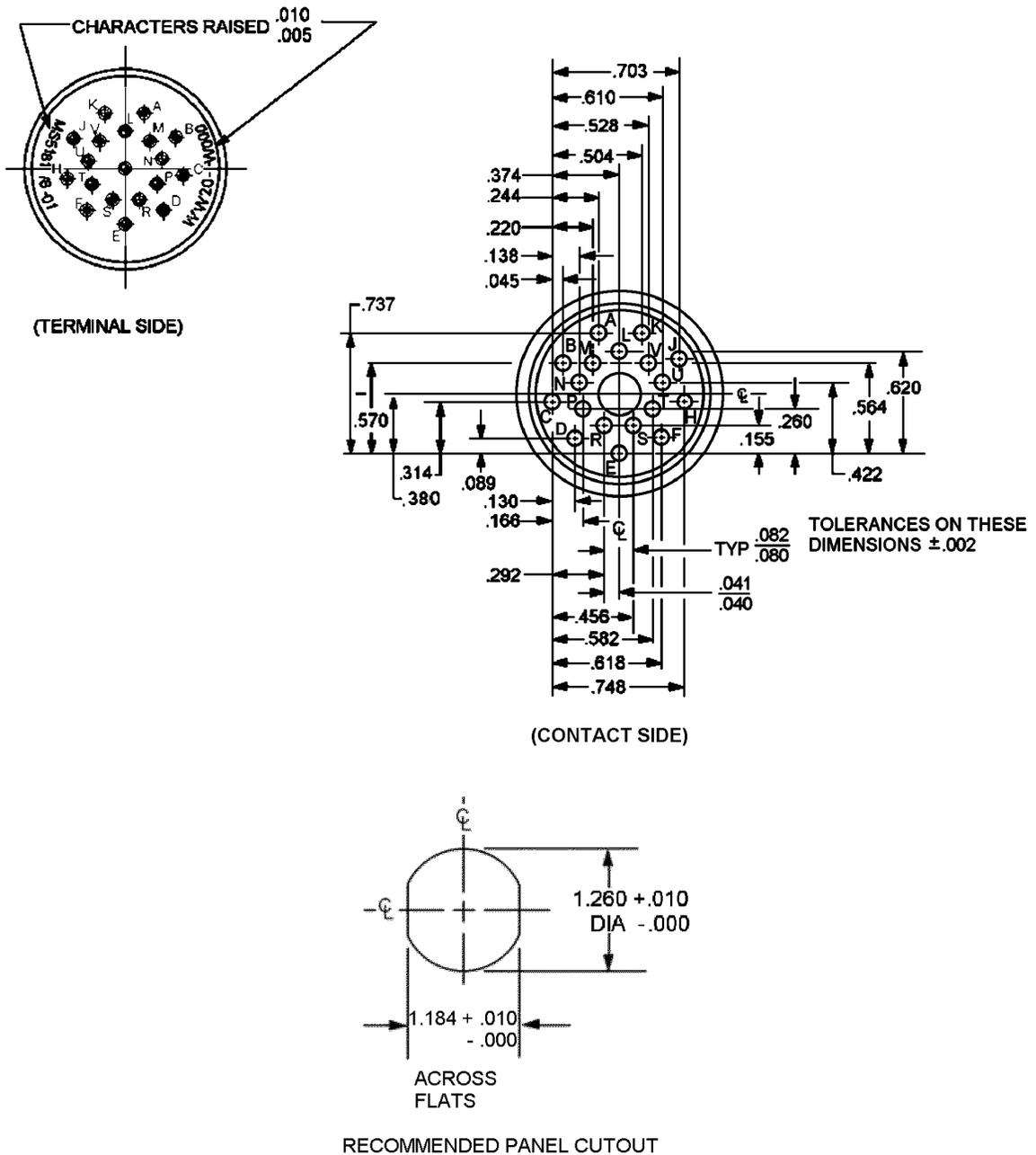
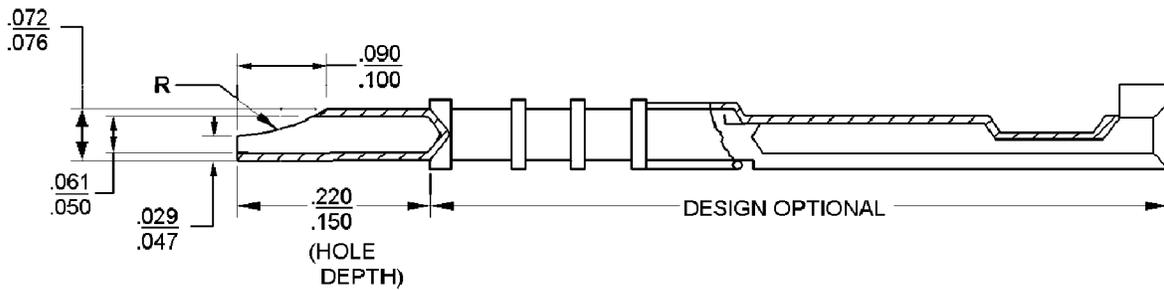


FIGURE 1. Dimensions and configurations - Continued.

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CONTACT

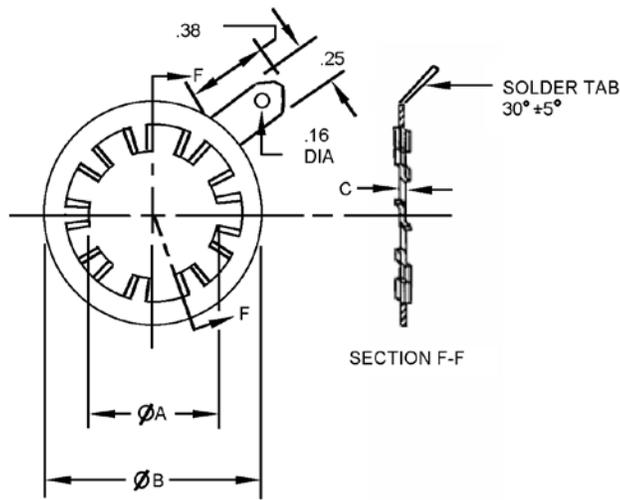
Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.13	.076	1.93	.610	15.49	.620	15.75
.010	0.25	.078	1.98	.618	15.70	.703	17.85
.015	0.38	.089	2.23	.260	6.60	.737	18.72
.016	0.40	.090	2.29	.292	7.42	.748	19.00
.026	0.66	.100	2.54	.314	7.97	.850	21.59
.029	0.74	.125	3.17	.374	9.50	1.111	28.22
.034	0.86	.130	3.30	.378	9.60	1.115	28.32
.045	1.14	.138	3.50	.380	9.65	1.178	29.92
.046	1.17	.150	3.81	.422	10.72	1.250	31.75
.047	1.19	.155	3.94	.456	11.58	1.260	32.00
.050	1.27	.156	3.96	.504	12.80	1.378	35.00
.061	1.55	.166	4.21	.528	13.41	1.437	36.50
.069	1.75	.184	4.67	.564	14.32	1.468	27.29
.072	1.83	.220	5.59	.570	14.48		
.074	1.88	.244	6.19	.582	14.78		

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm 0.005$  (0.13 mm) inch for three place decimals and  $\pm 0.014$  (0.3 mm) inch for two place decimals.
4. Angular tolerances are  $\pm 30$  minutes unless otherwise specified.

FIGURE 1. Dimensions and configurations - Continued.

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Inches	mm
.16	4.06
.25	6.35
.38	9.65

Outside diameter ØB Inches (mm)	Inside diameter ØA Inches (mm)	Thickness C Inches (mm)
1.468 (37.29)	1.255 (31.88)	.052 (1.32) - .060 (1.52)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm .01$  inch (0.3 mm) for two place decimals.
4. Material: Carbon steel. Finish shall be cadmium plated as specified.
5. The number of teeth shall be at the option of the manufacturer.

FIGURE 2. Grounding washer.

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REQUIREMENTS:

Dimensions and configurations: See figures 1 and 2, and table I.

Contacts: 7.5 ampere current rating, 20 AWG.

Mating connectors: M55181/7-01, M55181/7-02, M55181/7-03, M55181/7-04, and M55181/7-05.

Part or Identifying Number (PIN): M55181/8 – (dash number specified in table I).

Supersession, cross-reference and mating connectors: See table II.

TABLE I. PIN.

PIN	
M55181/8-01	Without grounding washer
M55181/8-01W	With grounding washer

TABLE II. Supersession, cross reference and mating connector.

PIN	Old type designator <u>1/</u>	Mating type designator <u>1/</u>
M55181/8-01	MW20F(M)D00	MW10M(M)D11
M55181/8-01	MW20F(M)D00	MW10M(M)D13
M55181/8-01	MW20F(M)D00	MW10M(M)D17
M55181/8-01	MW20F(M)D00	MW10M(M)D19
M55181/8-01	MW20F(M)D00	MW10M(M)D15

1/ This type designator shall not be referenced for procurement purposes.

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.

Referenced documents. This document references MIL-DTL-55181.

CONCLUDING MATERIAL

Custodians:  
Army - CR  
Navy - EC  
Air Force – 85  
DLA - CC

Preparing activity:  
DLA - CC  
  
(Project 5935-2009-174)

Review activity:  
Air Force - 99

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 <http://assist.daps.dla.mil>.