

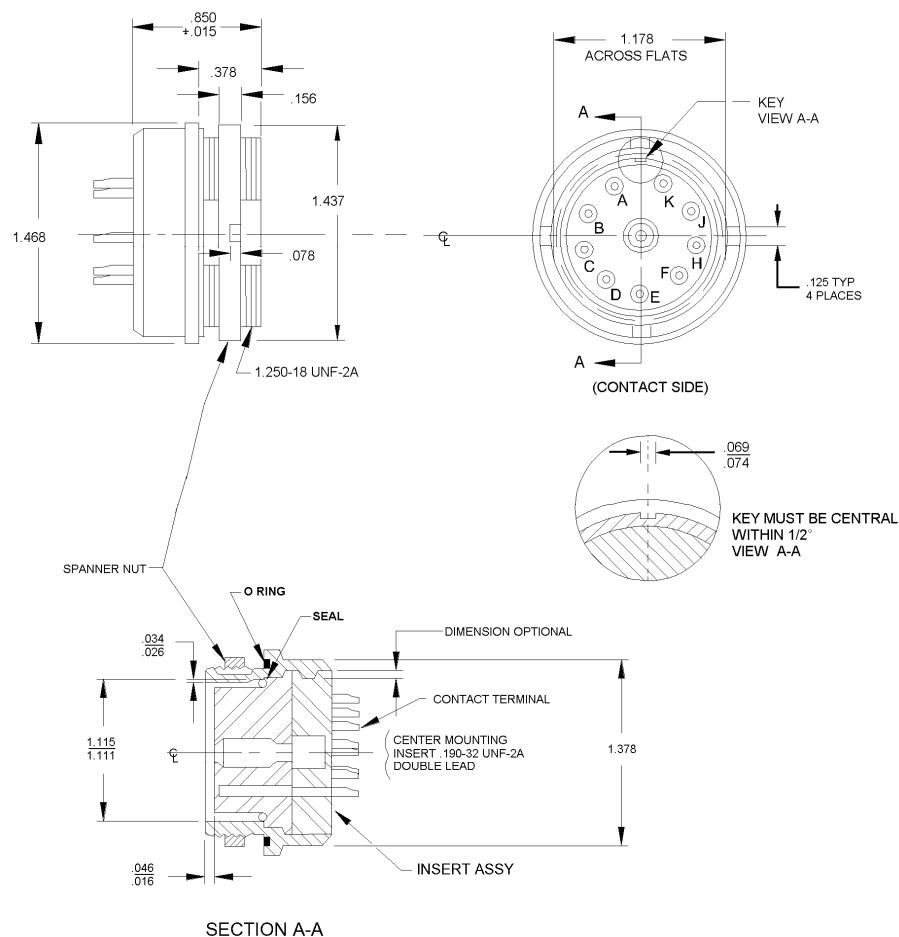
MIL-DTL-55181/6D
10 March 2008
SUPERSEDING
MIL-C-55181/6C
23 June 1986

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL, WATERPROOF,
9 SOCKET CONTACTS, SOLDER CUP, 7.5 AMP

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

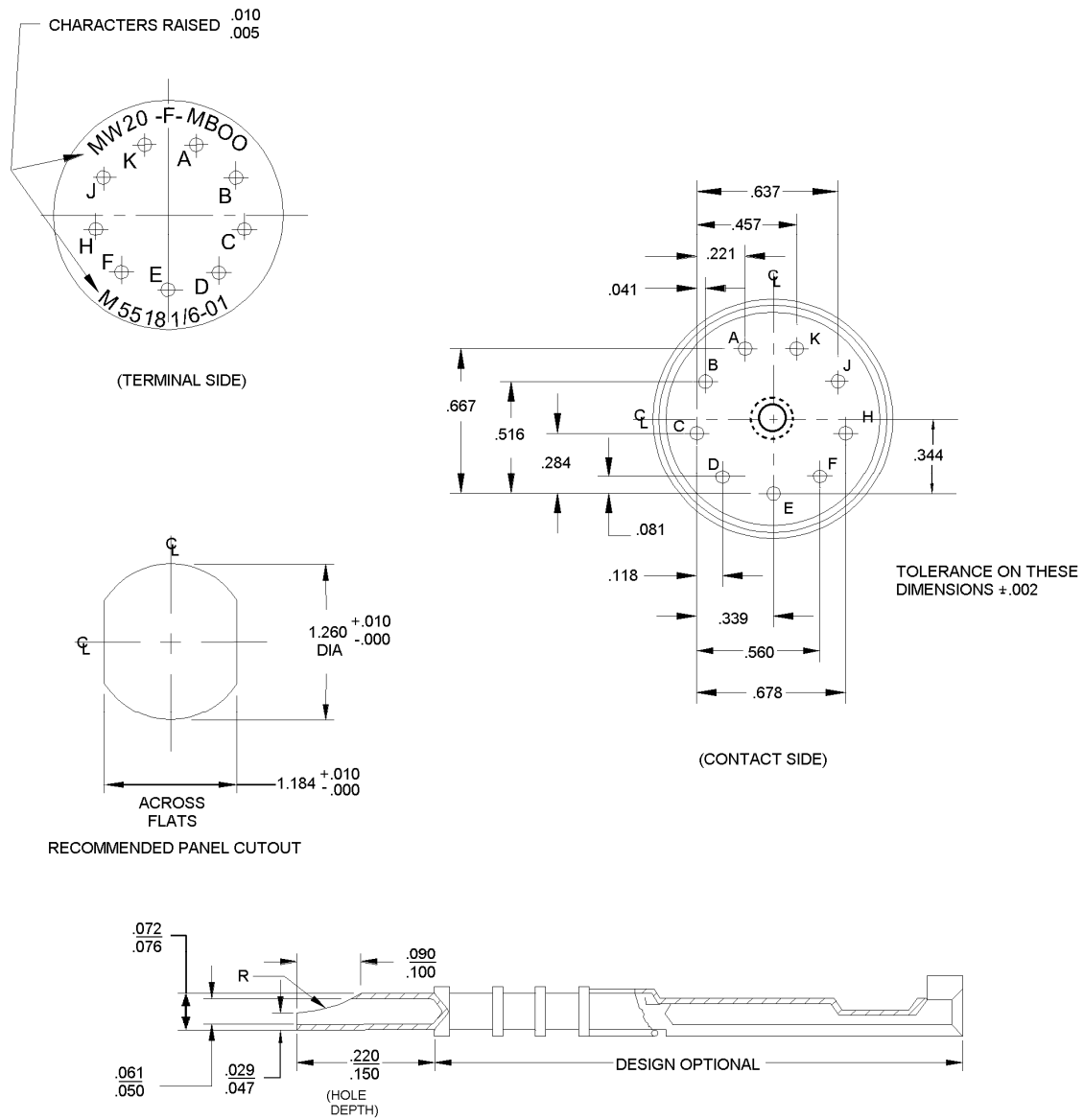
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-55181.



CONNECTOR ASSEMBLY

FIGURE 1. Dimensions and configuration.

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CONTACT

FIGURE 1. Dimensions and configuration - Continued.

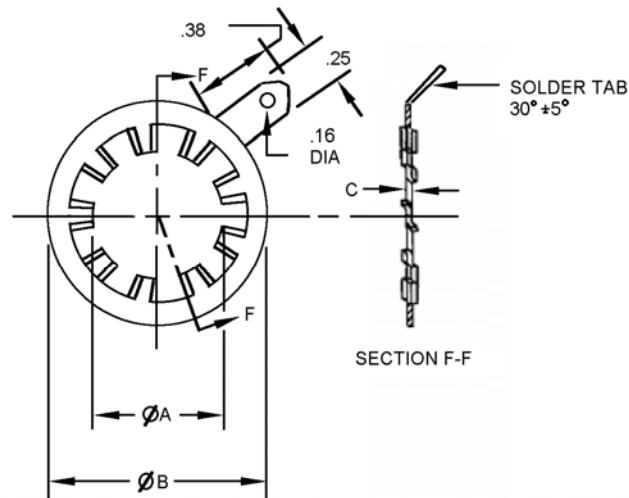
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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.002	0.05	.061	1.55	.156	3.96	.678	17.22
.005	0.12	.069	1.75	.220	5.59	.850	21.59
.010	0.25	.072	1.83	.221	5.61	1.111	28.22
.015	0.38	.074	1.88	.284	7.21	1.115	28.32
.016	0.40	.076	1.93	.339	8.61	1.178	29.92
.026	0.66	.078	1.98	.344	8.74	1.184	30.07
.029	0.74	.081	2.05	.378	9.60	1.250	31.75
.034	0.86	.090	2.29	.457	11.61	1.260	32.00
.041	1.41	.100	2.54	.516	13.10	1.378	35.00
.046	1.17	.118	3.00	.560	14.22	1.437	36.50
.047	1.19	.125	3.17	.637	16.18	1.468	37.28
.050	1.27	.150	3.81	.667	16.94		

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. Angular tolerances shall be ± 30 minutes unless otherwise specified.

FIGURE 1. Dimensions and configuration - Continued.



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)

Inches	mm
.16	4.06
.25	6.35
.38	9.65

FIGURE 2. Grounding washer.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are ± 0.005 inch (0.13 mm) for three place decimals and ± 0.01 inch (0.3 mm) for two place decimals.
4. Material: Carbon steel, cadmium plated in accordance with SAE-AMS-2700.
5. The number of teeth shall be at the option of the manufacturer.

FIGURE 2. Grounding washer – Continued.

REQUIREMENTS:

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

Contacts: 7.5 ampere current rating, 12 AWG.

Mating Connector: M55181/5-01, M55181/5-02, M55181/5-03, and M55181/5-04.

Part or Identifying Number (PIN): See table I.

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

TABLE I. PIN.

PIN	
M55181/6-01	Without grounding washer
M55181/6-01W	With grounding washer

TABLE II. Supersession and cross reference data.

PIN	Old type designator ^{1/}	Mating type designator ^{1/}
M55181/6-01	MW20F(M)B00	MW10M(M)B11
M55181/6-01	MW20F(M)B00	MW10M(M)B13
M55181/6-01	MW20F(M)B00	MW10M(M)B17
M55181/6-01	MW20F(M)B00	MW10M(M)B19
M55181/6-01	MW20F(M)B00	MW10M(M)B15

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

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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 last previous issue.

Referenced documents: In addition to MIL-DTL-55181, this document references the following:

SAE-AMS-2700

CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2007-126)

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>.