

INCH-POUND

MS18193F
 5 January 2011
 SUPERSEDING
 MS18193E
 26 April 1990

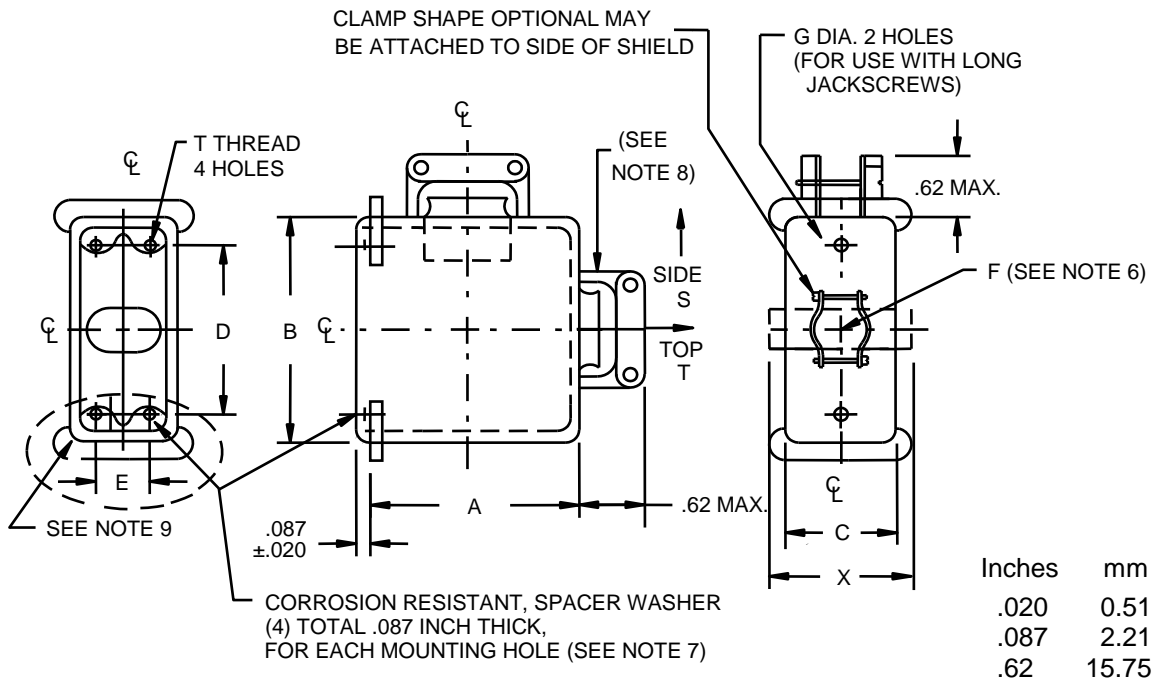
DETAIL SPECIFICATION SHEET

SHEILD, ELECTRICAL CONNECTORS FOR
 66 AND 104 CONTACT CONNECTORS

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.

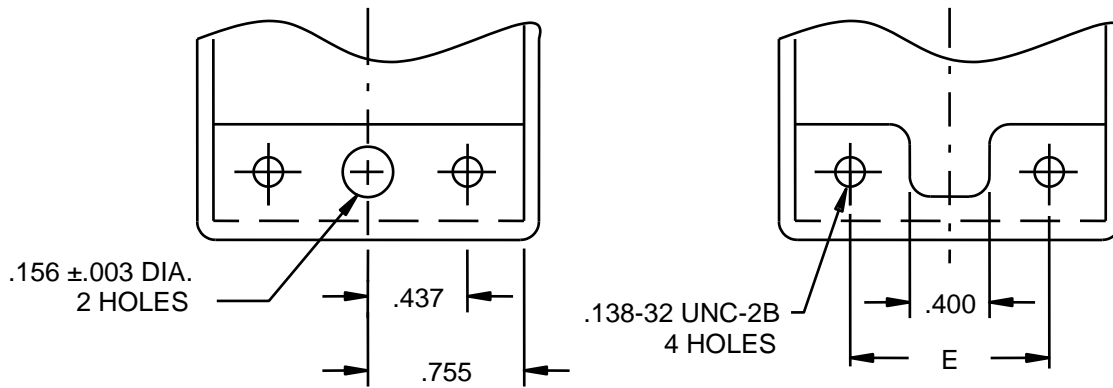
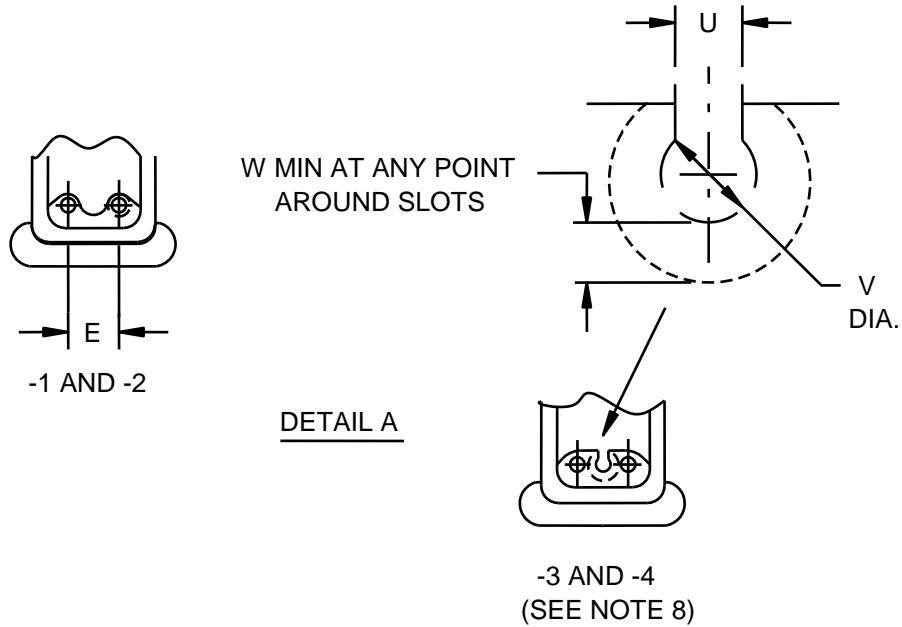
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-28748.



Shield designator	Shield and shield clamp location (see note 8)	U ±.003 (0.08)	V +.005 (0.13 mm) -.001 (0.03 mm)	W Min	Connector size (number of contacts)
MS18193-T3 MS18193-S3	top opening side opening	.109 (2.77)	.120 (3.05)	.062 (1.57)	66
MS18193-T4 MS18193-S4	top opening side opening	.133 (3.38)	.150 (3.81)	.110 (2.79)	104

FIGURE 1. Shield for 66 and 104 contact positions.

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ALTERNATE CONFIGURATIONS -2 AND -4

Inches	mm
.003	0.08
.138	3.51
.156	3.96
.400	10.16
.437	11.10
.755	19.18

DETAIL A

FIGURE 1. Shields for 66 and 104 contact positions - Continued.

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Shield designator	Shield and shield clamp location	Connector size (number of contacts)	A $\pm .03$ (0.76 mm)	B $\pm .016$ (0.41 mm)	C $\pm .016$ (0.41 mm)	D $\pm .005$ (0.13 mm)	E $\pm .005$ (0.13 mm)	F Minimum cable opening sq. inch	G $+ .003$ (0.08 mm) $- .001$ (0.03 mm)	T thread	X max
MS18193-T1 MS18193-S1	top opening side opening	66	1.17 (29.72)	2.366 (60.10)	1.211 (30.76)	1.969 (50.01)	.500 (12.70)	.55 (13.97)	.196 (4.98)	.112-40 UNC-2B	1.37 (34.80)
MS18193-T2 MS18193-S2	top opening side opening	104	2.23 (56.64)	2.835 (72.01)	1.625 (41.28)	2.375 (60.33)	.875 (22.23)	1.10 (27.94)	.229 (5.82)	.138-32 UNC-2B	1.88 (47.75)
MS18193-T3 MS18193-S3	top opening side opening	66	1.17 (29.72)	2.366 (60.10)	1.211 (30.76)	1.969 (50.01)	.500 (12.70)	.55 (13.97)	.196 (4.98)	.112-40 UNC-2B	1.37 (34.80)
MS18193-T4 MS18193-S4	top opening side opening	104	2.23 (56.64)	2.835 (72.01)	1.625 (41.28)	2.375 (60.33)	.875 (22.23)	1.10 (27.94)	.229 (5.82)	.138-32 UNC-2B	1.88 (47.75)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are $\pm .016$ inch (0.41 mm).
4. Material aluminum alloy in accordance with SAE-AMS4016 temper H32 .040 inch (1.02 mm) thick.
5. Finish anodized in accordance with MIL-A-8625, type I or type II.
6. Edges of cable entry hole to be rounded to prevent insulation chafing.
7. Spacer washers (4) used only with shell. Discard otherwise. Aluminum shall be in accordance with SAE-AMS4027, T6, anodized in accordance with MIL-A-8625, type I or II.
8. MS18193-T3, S3, T4, S4 are for use with one-piece jackscrews.
9. No crack, chips, or sharp edges on all 4 edges of flange.

FIGURE 1. Shields for 66 and 104 contact positions - Continued.

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Shields for 66 and 104 contact positions. See figure 1.

Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

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

MIL-A-8625
SAE-AMS4016
SAE-AMS4027

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
Air Force – 99

(Project 5935-2009-160)

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.daps.dla.mil>.