

INCH-POUND

MS18192G
w/AMENDMENT 1
28 October 2013
SUPERSEDING
MS18192G
5 January 2011

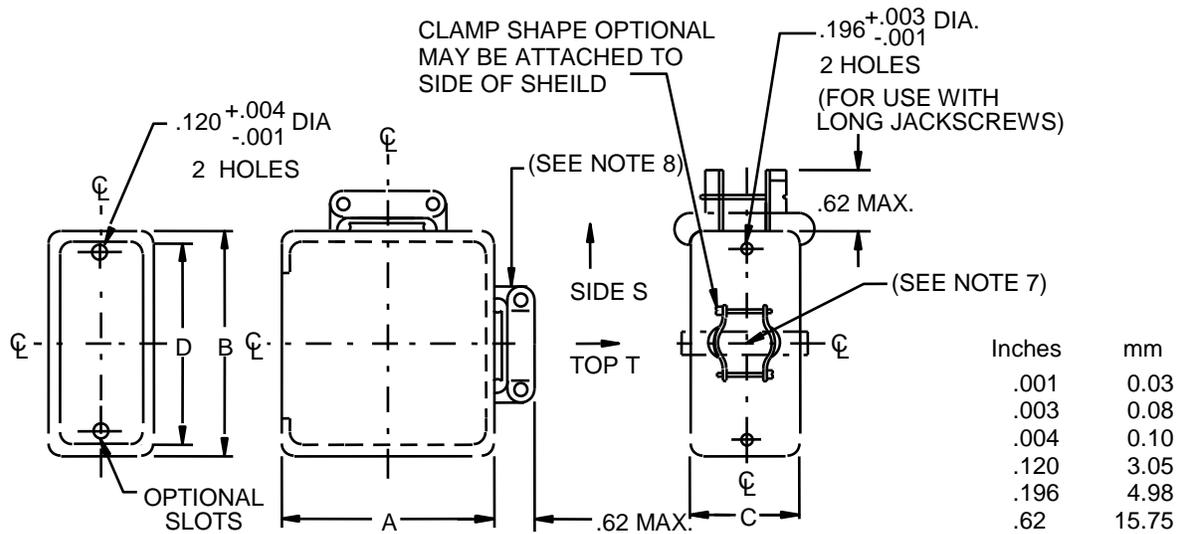
DETAIL SPECIFICATION SHEET

SHIELD, ELECTRICAL CONNECTORS FOR
7, 9, 14, 20, 26, 34, 42, 50 AND 75
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.

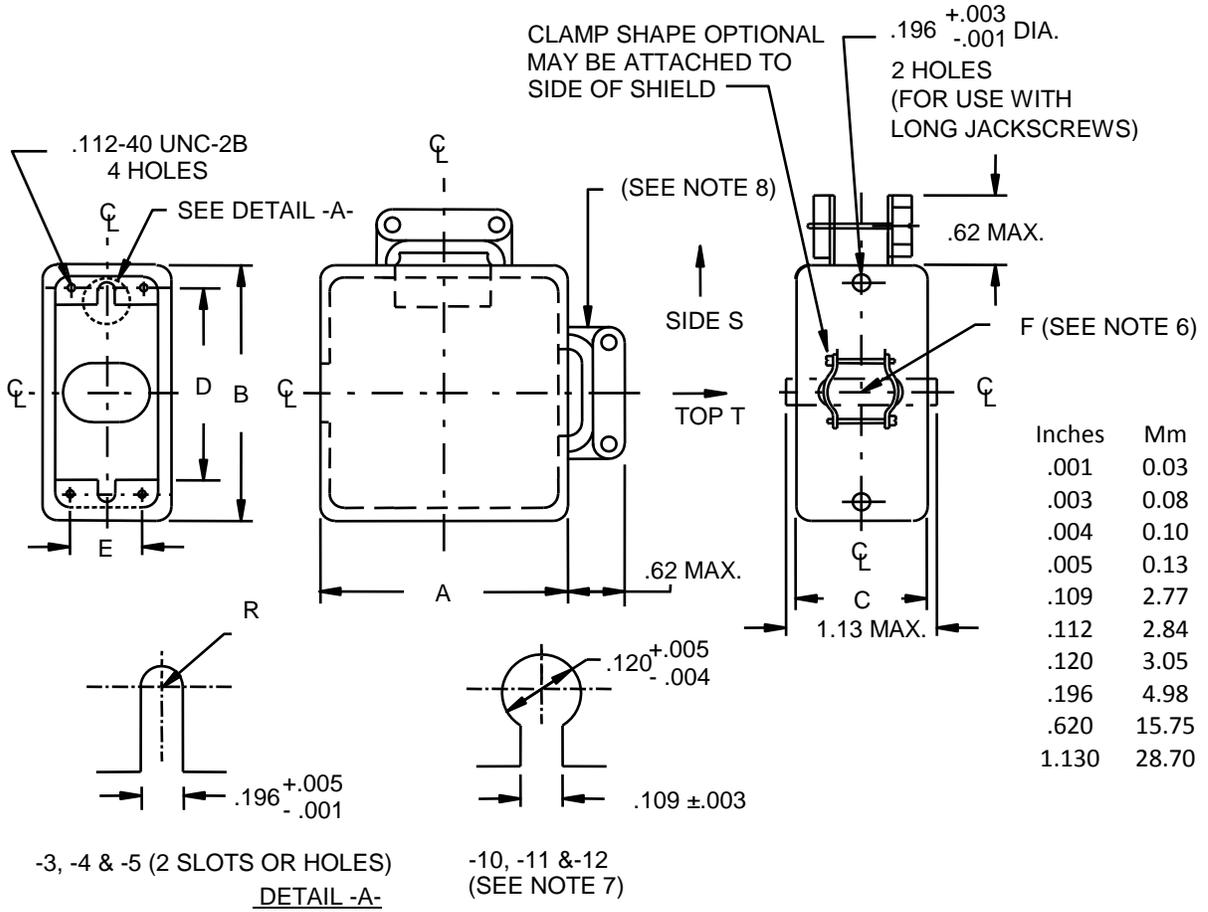
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-28748.



Shield designator	Shield and shield clamp location	Connector size (number of contacts)	A min max	B ± .016 (0.41 mm)	C ± .016 (0.41 mm)	D ± .005 (0.13 mm)	F Minimum cable opening square inch
MS18192-T7 MS18192-S7	top opening side opening	7	1.18 (29.97) 1.35 (34.29)	1.220 (30.99)	.437 (11.10)	.906 (23.01)	.18 (4.57)
MS18192-T8 MS18192-S8	top opening side opening	9	1.18 (29.97) 1.35 (34.29)	1.312 (33.32)	.437 (11.10)	1.000 (25.40)	.10 (2.54)
MS18192-T1 MS18192-S1	top opening side opening	14	1.18 (29.97) 1.35 (34.29)	1.250 (31.75)	.500 (12.70)	.938 (23.83)	.19 (4.83)
MS18192-T14 MS18192-S14	top opening side opening	18	1.18 (29.97) 1.35 (34.29)	1.190 (30.23)	.630 (16.00)	1.000 (25.40)	.22 (5.59)
MS18192-T2 MS18192-S2	top opening side opening	20	1.18 (29.97) 1.35 (34.29)	1.562 (39.67)	.500 (12.70)	1.250 (31.75)	.22 (5.59)
MS18192-T9 MS18192-S9	top opening side opening	26	1.18 (29.97) 1.35 (34.29)	1.625 (41.28)	.640 (16.26)	1.312 (33.32)	.22 (5.59)

FIGURE 1. Shields for 7, 9, 14, 18, 20, 26, 34, 42, 50, and 75 contact positions.

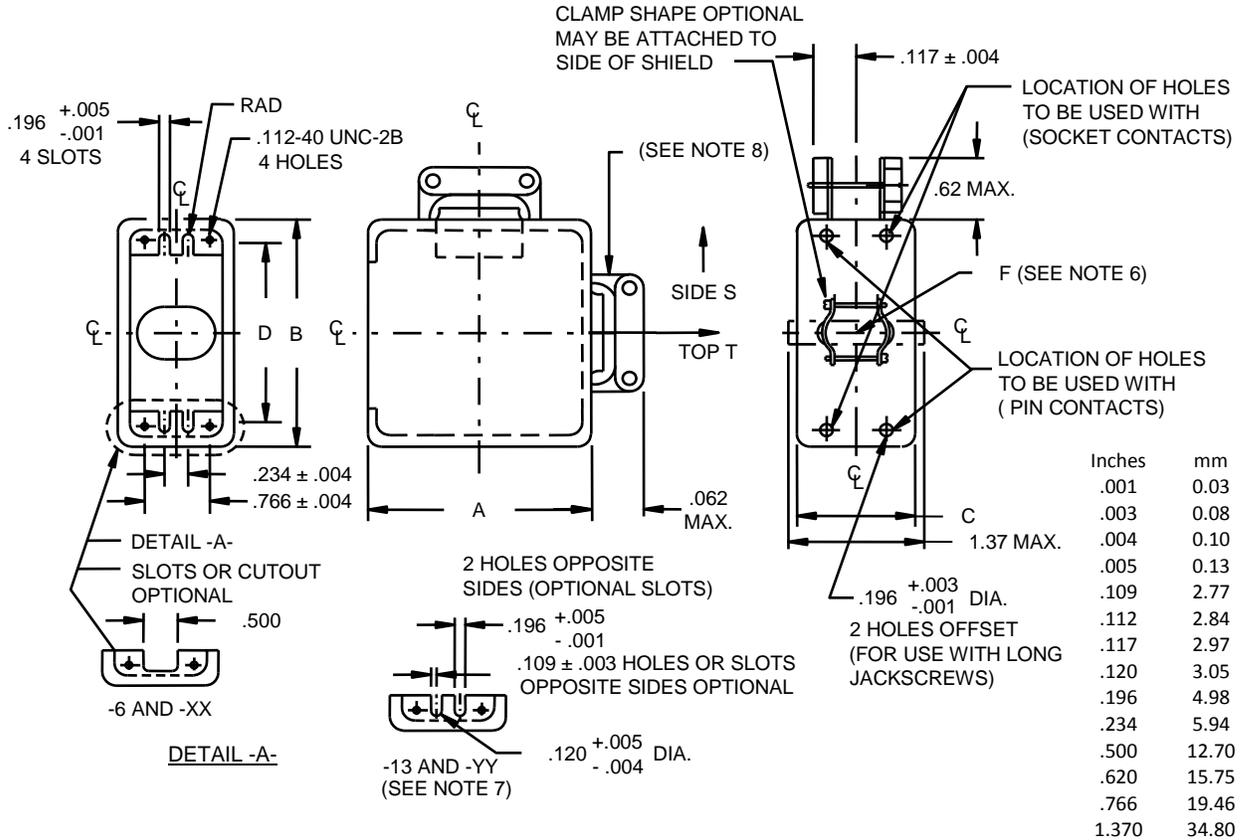
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Shield designator	Shield and shield clamp location suffix designator	Connector size (number of contacts)	A min max	B ± .016 (0.41 mm)	C ± .016 (0.41 mm)	D ±.005 (0.13 mm)	E ±.010 (0.25)	F Minimum cable opening square inch
MS18192-T3 MS18192-S3	top opening side opening	34	1.22 (30.99) 1.35 (34.29)	2.000 (50.80)	.828 (21.03)	1.688 (42.88)	.468 (11.89)	.34 (8.64)
MS18192-T4 MS18192-S4	top opening side opening	42	1.22 (30.99) 1.35 (34.29)	2.312 (58.72)	.828 (21.03)	2.000 (50.80)	.468 (11.89)	.34 (8.64)
MS18192-T5 MS18192-S5	top opening side opening	50	1.22 (30.99) 1.35 (34.29)	2.594 (65.89)	.828 (21.03)	2.282 (57.96)	.468 (11.89)	.34 (8.64)
MS18192-T10 MS18192-S10	top opening side opening	34	1.22 (30.99) 1.35 (34.29)	2.000 (50.80)	.828 (21.03)	1.688 (42.88)	.468 (11.89)	.34 (8.64)
MS18192-T11 MS18192-S11	top opening side opening	42	1.22 (30.99) 1.35 (34.29)	2.312 (58.72)	.828 (21.03)	2.000 (50.80)	.468 (11.89)	.34 (8.64)
MS18192-T12 MS18192-S12	top opening side opening	50	1.22 (30.99) 1.55 (39.37)	2.594 (65.89)	.828 (21.03)	2.282 (57.96)	.468 (11.89)	.34 (8.64)

FIGURE 1. Shields for 7, 9, 14, 18, 20, 26, 34, 42, 50, and 75 contact positions - Continued.

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Designator	Shield and shield clamp location suffix designator	Connector size (number of contacts)	A min max	B ± .016 (0.41 mm)	C ± .016 (0.41 mm)	D ± .005 (0.13 mm)	F Minimum cable opening square inch
MS18192-T6	top opening	75	1.22 (30.99)	2.594	1.188	2.282	.55
MS18192-S6	side opening	Pin only	1.35 (34.29)	(65.89)	(30.18)	(57.96)	(13.97)
MS18192-T13	top opening	75	1.22 (30.99)	2.594	1.188	2.282	.55
MS18192-S13	side opening	Pin only	1.35 (34.29)	(65.89)	(30.18)	(57.96)	(13.97)
MS18192-TXX	top opening	75	1.22 (30.99)	2.594	1.188	2.282	.55
MS18192-SXX	side opening	Socket only	1.35 (34.29)	(65.89)	(30.18)	(57.96)	(13.97)
MS18192-TYY	top opening	75	1.22 (30.99)	2.594	1.188	2.282	.55
MS18192-SYY	side opening	Socket only	1.35 (34.29)	(65.89)	(30.18)	(57.96)	(13.97)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ±.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. MS18192-T10, S10, T11, S12, T13, S13, TYY, and SYY are for use with one-piece jackscrews.
8. Clamp hinge may attach to side of shield.

FIGURE 1. Shields for 7, 9, 14, 18, 20, 26, 34, 42, 50, and 75 contact positions - Continued.

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Shields contact positions. See figure 1.

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

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

MIL-A-8625

MIL-DTL-28748/1

MIL-DTL-28748/2

MIL-DTL-28748/3

MIL-DTL-28748/4

MIL-DTL-28748/5

MIL-DTL-28748/6

SAE AMS4016

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 5935-2013-208)

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>.