

INCH-POUND

MS18203G
w/AMENDMENT 3
28 May 2025
SUPERSEDING
MS18203G
w/AMENDMENT 2
6 January 2022

DETAIL SPECIFICATION SHEET

SHELL, ELECTRICAL, CONNECTOR, PLUG, RECTANGULAR, POLARIZING

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.

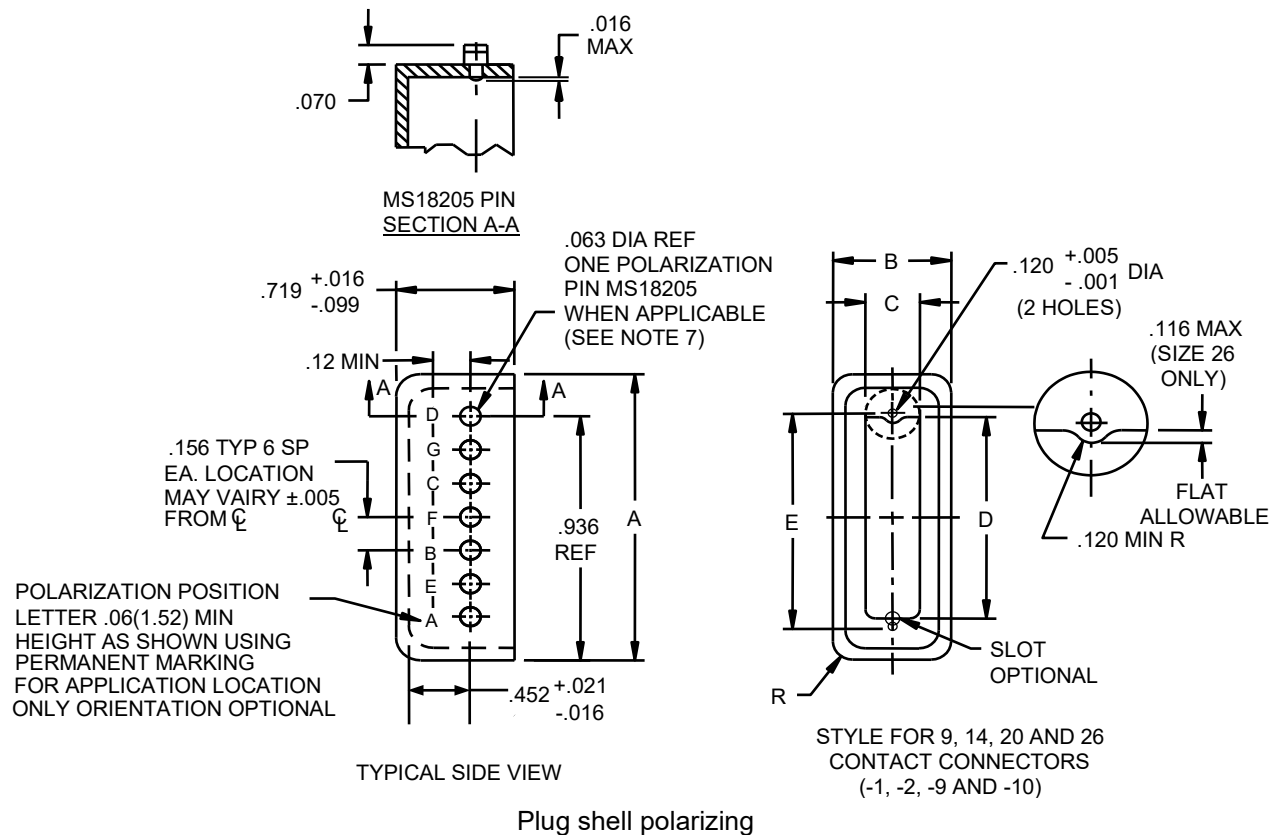
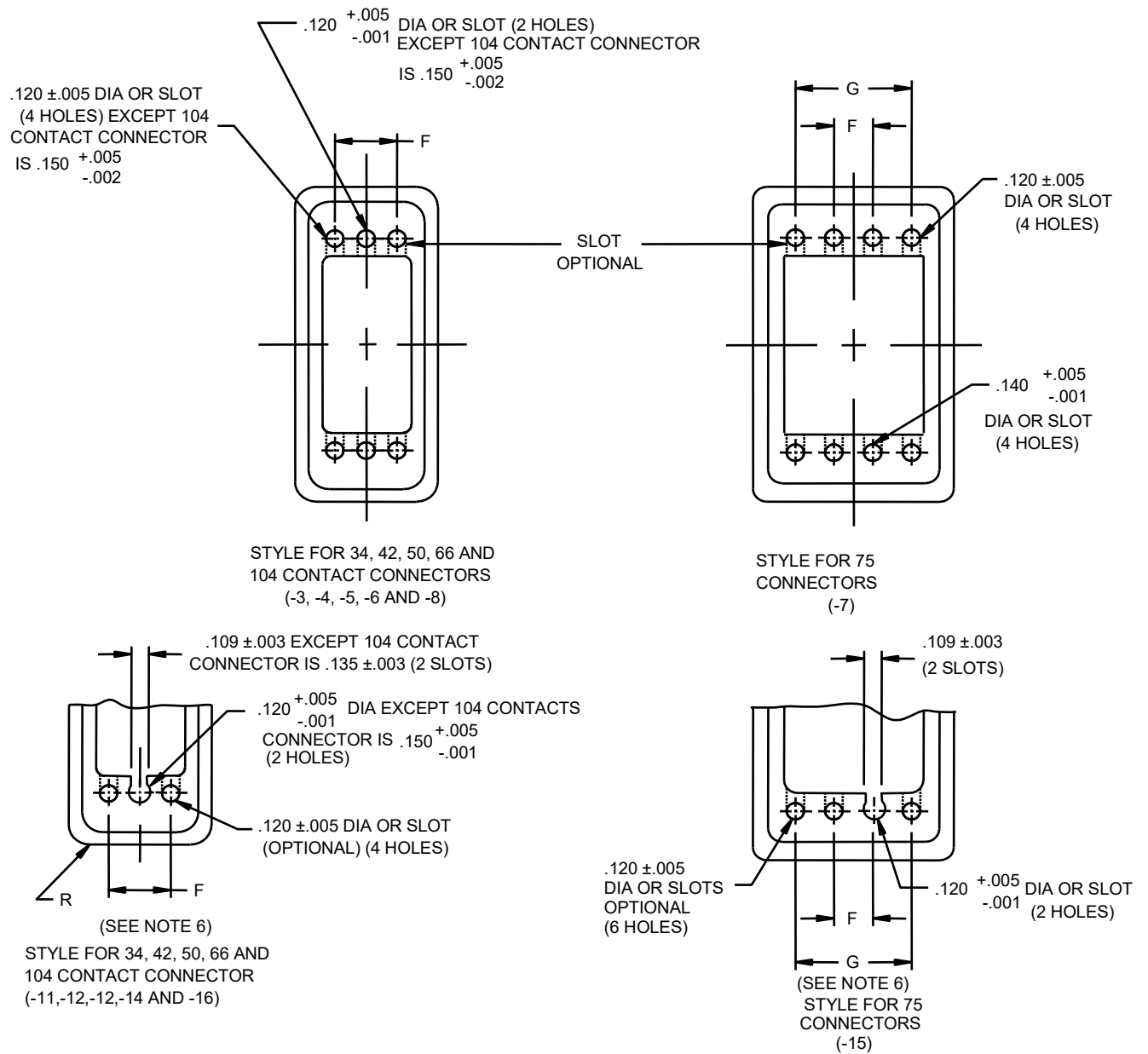


FIGURE 1. Plug shell, configurations.



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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.021	0.53	.109	2.77	.150	3.81
.002	0.05	.060	1.52	.116	2.95	.156	3.96
.003	0.08	.063	1.60	.120	3.05	.452	11.48
.005	0.13	.070	1.78	.135	3.43	.719	18.26
.016	0.41	.099	2.51	.140	3.56	.936	23.77

Plug shell M18203, polarizing

FIGURE 1. Plug shell, configurations – Continued.

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Designator see note 6	Connector size (number of contacts)	A max	B max	C min	D min	E ±.005 (0.13 mm)	F ±.005 (0.13 mm)	G ±.005 (0.13 mm)	R
MS18203-9()	9	1.440 (36.58)	.500 (12.70)	.375 (9.53)	.864 (21.95)	1.000 (25.40)	---		.141 (3.58)
MS18203-1()	14	1.380 (35.05)	.567 (14.40)	.440 (11.18)	.800 (20.32)	.938 (23.83)	---		.141 (3.58)
MS18203-17()	18	1.440 (36.58)	.680 (17.27)	.580 (14.73)	.880 (22.35)	1.000 (25.40)	---	---	.141 (3.58)
MS18203-2()	20	1.700 (43.18)	.567 (14.40)	.440 (11.18)	1.097 (27.86)	1.250 (31.75)	---		.141 (3.58)
MS18203-10()	26	1.755 (44.58)	.688 (17.48)	.565 (14.35)	1.182 (30.02)	1.312 (33.32)	---		.141 (3.58)
MS18203-3()	34	2.130 (54.10)	.880 (22.35)	.745 (18.92)	1.400 (35.56)	1.688 (42.88)	.468 (11.89)		.141 (3.58)
MS18203-4()	42	2.442 (62.03)	.880 (22.35)	.745 (18.92)	1.700 (43.18)	2.000 (50.80)	.468 (11.89)		.141 (3.58)
MS18203-5()	50	2.846 (72.29)	1.005 (25.53)	.745 (18.92)	2.026 (51.46)	2.281 (57.94)	.468 (11.89)		.188 (4.78)
MS18203-6()	66	2.410 (61.21)	1.254 (31.85)	1.115 (28.32)	1.696 (43.08)	1.969 (50.01)	.500 (12.70)		.375 (9.53)
MS18203-7()	75	2.850 (72.39)	1.365 (34.67)	1.104 (28.04)	2.026 (51.46)	2.281 (57.94)	.234 (5.94)	.766 (19.46)	.187 (4.75)
MS18203-8()	104	2.890 (73.41)	1.670 (42.42)	1.476 (37.49)	2.073 (52.65)	2.375 (60.33)	.875 (22.23)		.422 (10.72)
MS18203-11() see note 8	34	2.130 (54.10)	.880 (22.35)	.745 (18.92)	1.400 (35.56)	1.688 (42.88)	.468 (11.89)		.141 (3.58)
MS18203-12() see note 8	42	2.442 (62.03)	.880 (22.35)	.745 (18.92)	1.700 (43.18)	2.000 (50.80)	.468 (11.89)		.141 (3.58)
MS18203-13() see note 8	50	2.846 (72.29)	1.005 (25.53)	.745 (18.92)	2.026 (51.46)	2.281 (57.94)	.468 (11.89)		.188 (4.78)
MS18203-14() see note 8	66	2.410 (61.21)	1.254 (31.85)	1.115 (28.32)	1.696 (43.08)	1.969 (50.01)	.500 (12.70)		.375 (9.53)
MS18203-15() see note 8	75	2.850 (72.39)	1.365 (34.67)	1.104 (28.04)	2.026 (51.46)	2.281 (57.94)	.234 (5.94)	.766 (19.46)	.187 (4.75)
MS18203-16() see note 8	104	2.890 (73.41)	1.670 (42.42)	1.476 (37.49)	2.073 (52.65)	2.375 (60.35)	.875 (22.23)		.422 (10.72)

Polarization designators () indicate location of polarization plug A through G (see note 6).

Plug shell MS18203, polarizing

FIGURE 1. Plug shell configurations - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± 0.016 inch (0.41mm).
4. Material aluminum alloy in accordance with SAE AMS4015, temper O, ASTM B209/B209M, temper H12, or Alloy 6061, temper T6, .040 inch (1.02mm) thick.
5. Finish anodize in accordance with MIL-PRF-8625, type I or type II.
6. PIN examples:
 - a. Polarization required, specify as MS18203- # (A through G): Example: MS18203-14D (see note 7).
 - b. Polarization not required, specify as MS18203- #: Example: MS18203-5.
7. One polarization pin is used when applicable. Polarization pin will be packaged loose. If a polarization pin only is required order separately as MS18205.
8. MS18203-11, -12, -13, -14, -15, and -16 are not used with one-piece jackscrew shields of MS24133.

FIGURE 1. Plug shell configurations - Continued.

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-PRF-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
MS18205
MS24133
ASTM B209/B209M
SAE AMS4015

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CONCLUDING MATERIAL

Custodians:

Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5935-2025-035)

Review activities:

Army - AM, AR, AT, CR4, MI
Navy - AS, MC, OS

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>.