

INCH-POUND

MS27146C
 17 June 2003
 SUPERSEDING
 MS27146B
 14 April 1989

DETAIL SPECIFICATION SHEET

CONNECTOR, RECEPTACLE, ELECTRICAL,
 DOUBLE CONTACT, WATERPROOF

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.

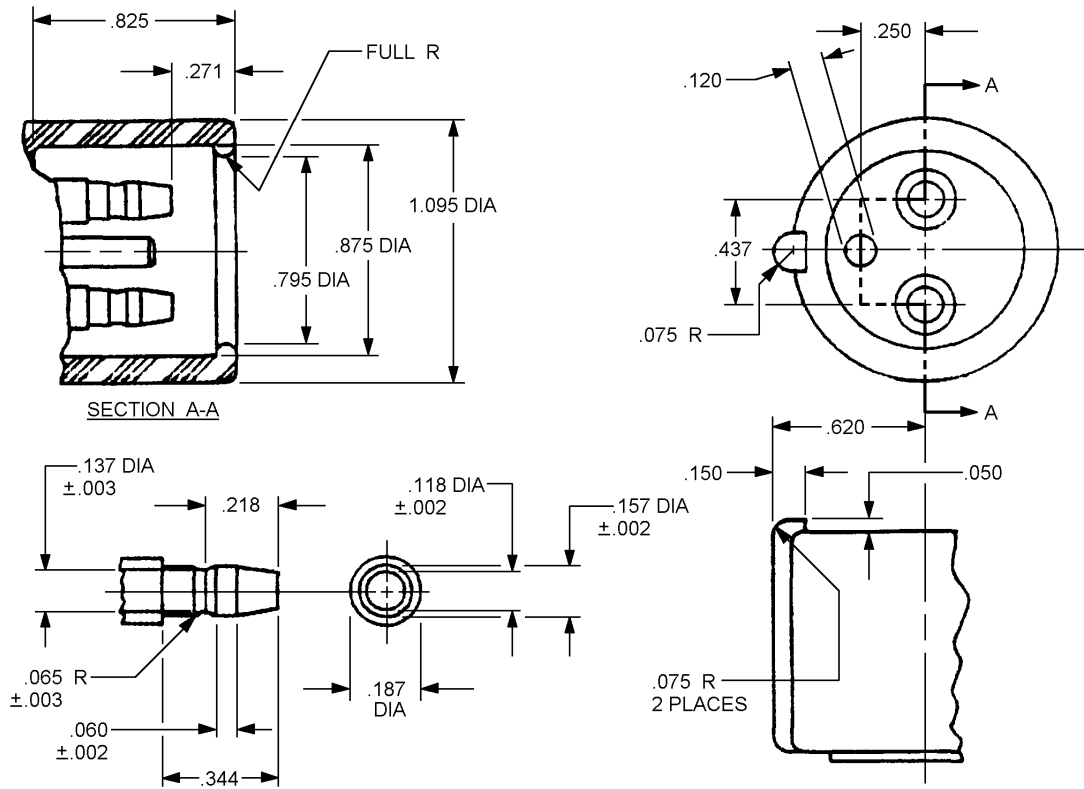


FIGURE 1. Configuration and dimensions.

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Inches	mm	Inches	mm	Inches	mm
.002	.051	.137	3.48	.437	11.10
.043	.76	.150	3.81	.620	15.75
.050	1.27	.157	3.99	.795	20.19
.060	1.52	.187	4.75	.825	20.96
.065	1.65	.218	5.08	.875	11.23
.075	1.90	.250	6.35	1.095	27.81
.118	3.00	.271	6.89		
.120	3.05	.344	8.74		

FIGURE 1. Configuration and dimensions - Continued.

REQUIREMENTS:

Material:

Shell: Rubber in accordance with ASTM D2000, M3BC610A14C12EO34F19.

Terminal: Brass composition, temper half hard minimum in accordance with ASTM B 36/B 36M, ASTM B 121/B 121M or ASTM B124/B 124M.

Terminal protective finish: Silver plate, grade D, class S, .0002-inch minimum thickness in accordance with ASTM B700.

When connectors are coupled, the following requirements shall apply:

Voltage drop: The voltage drop shall not exceed 20 millivolts and shall meet the requirements outlined in MIL-STD-202, method 307.

Dielectric strength: The assembly shall withstand dielectric strength test of 1000 volts, and meet the requirements outlined in MIL-STD-202, method 302.

Waterproof requirements: The assembly shall be waterproof. Refer to MIL-HDBK-1184, or equivalent, for guidance on waterproof testing.

Salt spray corrosion test: The assembly shall meet the requirements of salt spray corrosion test outlined in MIL-STD-202, method 101 (5% saline solution, 200 hours duration).

Mating connector: See MS27145.

Part or Identifying Number (PIN): MS27146-1.

Engineering parts list may be obtained from the U.S. Army Tank Automotive Command, Warren, MI 48397-5000.

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

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CONCLUDING MATERIAL

Custodians:

Army – AT
Air Force – 99
Navy - MC
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-4427-005)

Review activities:

Army – AR, CR, CR4, GL
Navy – YD
Air Force - 11