

[METRIC]
A-A-52536
November 20, 1995
SUPERSEDING
MS27148C
23 October 1992

COMMERCIAL ITEM DESCRIPTION

CONTACT, ELECTRICAL No. 12, 14, and 16 A.W.G.

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1 SCOPE. This CID covers electrical contacts used in waterproof, electrical connectors.

1.1 Classification Contacts covered by this CID shall be classified as follows

Size 1 - No. 12 A.W.G.

Size 2 - No. 14 A.W.G.

Size 3 - No. 16 A.W.G

2. SALIENT CHARACTERISTICS

2.1 Materials. Unless otherwise specified, contacts covered by this CID shall be made of ½ hard brass (C36000) conforming to ASTM B16/B16M, temper 1/2 hard, and annealed after machining at 450 degrees Celsius (°C) [840 degrees Fahrenheit (°F)], for 1 hour, and silver plating conforming to SAE AMS 2412F with 0.005 millimeters (mm) minimum thickness. The use of recovered material made in compliance with regulatory requirements is acceptable providing that all requirements of this CID are met (see 3.1).

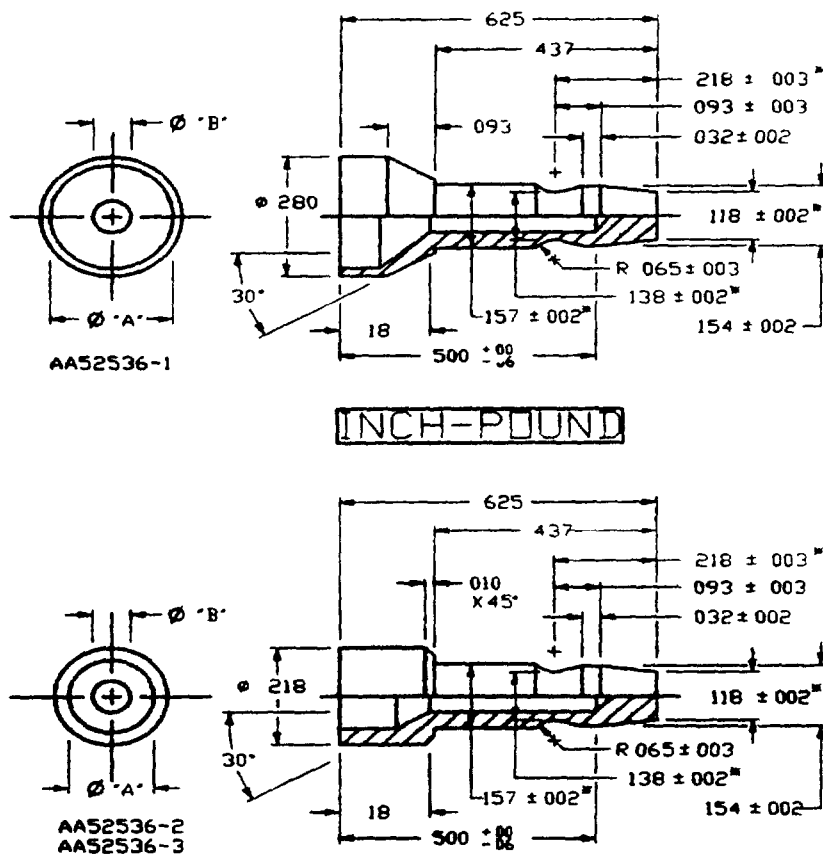
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FSC 5999

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2.2 Design and construction. The design, construction, and physical dimensions shall be as specified in Figure 1.

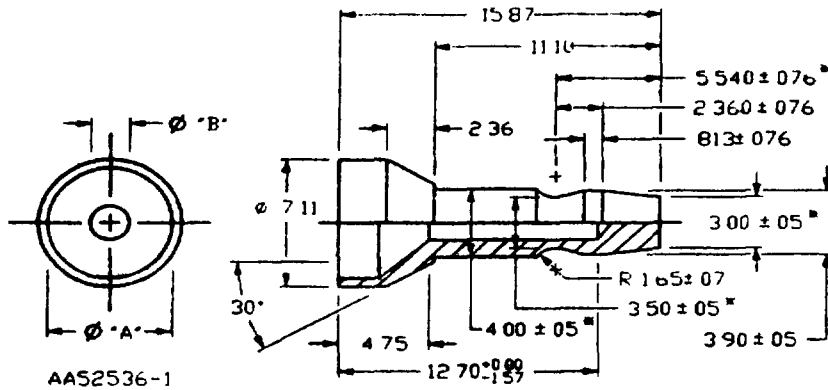


PIN	MS Part No.	Former Part No.	Wire gage	Inch-Pound	
				"A" DIA ± 0.002	"B" DIA ± 0.002
AA52536-1	MS27148-1	572930	12	0.252	0.098
AA52536-2	MS27148-2	572929	14	0.177	0.086
AA52536-3	MS27148-3	572931	16	0.160	0.071

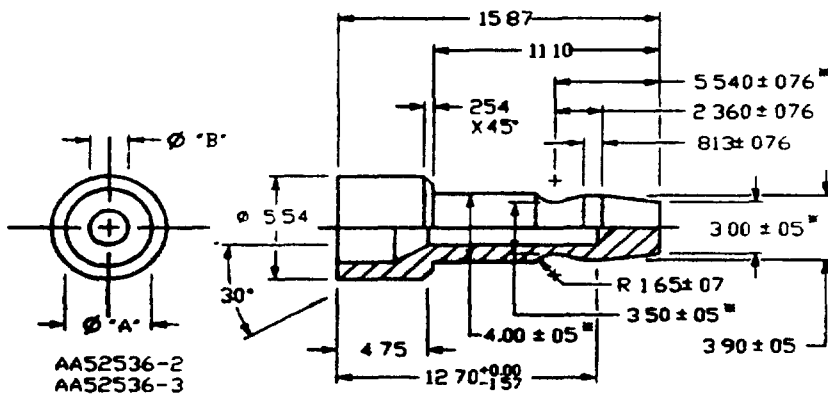
NOTES:

1. Dimensions are in inches. Unless otherwise specified, tolerances are ± 0.007 inches and 1 degree ($^{\circ}$) angle.
2. The use of asterisks (*) indicates that dimensions are covered by international agreements (see 6.4).

FIGURE 1. Electrical contact design and construction.



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PIN	MS part no.	Former part number	Wire gage	Metric	
				"A" DIA ± 0.05	"B" DIA ± 0.05
AA52536-1	MS27148-1	572930	12	6.40	2.49
AA52536-2	MS27148-2	572929	14	4.50	2.18
AA52536-3	MS27148-3	572931	16	4.06	1.80

NOTES:

1. Dimensions are in mm. Unless otherwise specified, tolerances are $\pm .18$ mm and 1 degree ($^{\circ}$) angle.
2. The use of asterisks (*) indicates that dimensions are covered by international agreements (see 6.4).

FIGURE 1. Electrical contact design and construction - Continued.

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3. REGULATORY REQUIREMENTS

3.1 **Recovered material** The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of Federal Acquisition Regulation (FAR).

4. QUALITY ASSURANCE PROVISIONS

4.1 **Responsibility for inspection.** The contractor is responsible for the performance of all inspections (examinations and tests).

4.2 **Contractor certification.** The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description and that the product conforms to the producer's own drawings, specifications, workmanship standards, and quality assurance practices. Items with known defects shall not be submitted for Government acceptance. The Government reserves the right to require proof of such conformance prior to the first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

4.3 **Market acceptability (MA).** The contractor shall provide products which have a proven record based on the number of items sold, length of time the product has been on the market, and reliability and performance of the products as required under the provision of the contract (see 6.2).

5. **PACKAGING.** Preservation, packing, and marking shall be as specified in the contract or order (see 6.2).

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

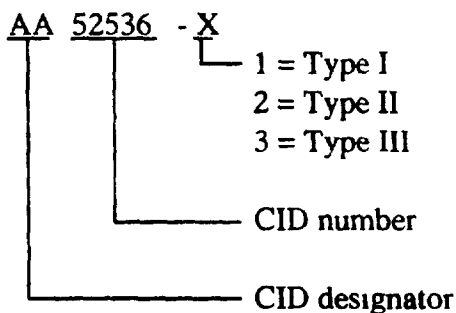
6.1. Addresses for obtaining copies of referenced documents.

6.1.1 **Non-Government documents.** Copies of ASTM B16/B16M "Standard Specification for Free-Cutting Brass Rod, Bar and Shapes for Use in Screw Machines" and SAE AMS 2412F "Silver Plating Copper Strike, Low Bake" are available from The American Society for Testing and Materials (ASTM), 1916 Race Street, Philadelphia, PA 19103 and the Society of Automotive Engineers (SAE), 400 Commonwealth Drive, Warrendale, PA 15096

6.2 Ordering data. Acquisition documents must specify the following:

- a. Title, number, and date of this CID.
- b. Issue of Department of Defense Index of Specifications and Standards (DODISS) to be cited in the solicitation, and if required, the specific issue of individual documents referenced.
- c. Type and part identifying number.
- d. Selection of applicable level and packaging agreements.
- e. If market acceptability requirements must appear in the solicitation

6.3 Part or identification number (PIN). The PINs to be used for electrical contact acquired by this CID are created as follows.



6.4 International standardization agreements. Certain figure 1 dimensions marked with an asterisk (*) are congruent with corresponding dimensions for the electrical contact which is the subject of international standardization agreements STANAG 4019 and American, British, Canadian ARMY-STD-132. When amendment, revision, or cancellation of this CID is proposed that will modify the dimensions congruent with the international agreement concerned, the preparing activity will take appropriate action through international standardization channels, including departmental standardization offices, to change the agreement or make another appropriate accommodations.

6.5 Cross-reference data. The contacts conforming to this CID are interchangeable/substitutable with the contacts conforming to MS27148C.

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MILITARY INTERESTS

Custodians

Army - AT
Navy - YD1

Reviewer Activities

Army - AR
Navy - MC
DLA - ES

CIVIL AGENCY COORDINATING ACTIVITY
GSA - FSS

PREPARING ACTIVITY:
Army - AT

(Project 5999-0336)