



AEROSPACE STANDARD	AS31571™	
	Issued 2012-08 Reaffirmed 2022-08	
	Supersedes MS3157	
Insert Arrangements for AS81659 Series 1 and 2 Electrical Connectors		
FSC 5935		

RATIONALE

AS31571 has been reaffirmed to comply with the SAE Five-Year Review policy.

NOTICE

The initial SAE publication of this document was taken directly from U.S. Military Standard MS3157D. This SAE Standard may retain the same part numbers established by the original military document.

Any requirements associated with Qualified Products Lists (QPL) may continue to be mandatory for DoD contracts. Requirements relating to QPLs have not been adopted by the SAE for this Standard and are not part of this SAE document.

1. SCOPE

1.1 Scope

This standard gives the dimensional requirements for insert arrangements used in AS81569 Series 1 and 2 electrical connectors.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of the other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

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SAE WEB ADDRESS:

Full document details: SAE AS31571

For more information on this standard, visit
<https://www.sae.org/standards/content/AS31571/>

Documents

Document Sharing Hub

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AS81659 Connectors, Electrical, Rectangular, Crimp Contacts, General Specification For

2.2 Order of Precedence

In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.3 Definitions

The terms used in this standard are generally accepted by the electrical and electronics industries and commonly used in electrical connector engineering practice.

3. GENERAL REQUIREMENTS

Not applicable.

4. DETAIL REQUIREMENTS

4.1 Dimensions

Dimensions shall be in accordance with this standard and the following dimensional data:

- a. Dimensions are basic and are in inches. See AS81659 intermateability control dimensions for tolerance.
- b. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 in = 25.4 mm.
- c. Dimensions and markings shown are for engaging face of pin insert. Socket insert is opposite.

5. NOTES

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

5.1 Intended Use

This standard contains requirements for insert arrangements to be used in AS815659 Series 1 and 2 Electrical Connectors.

5.2 Data Requirements

No data is required by this standard.

5.3 Issue of DODISS

When this standard is used in acquisition, the applicable issue of the DODISS must be cited in the solicitation.

INSERTS

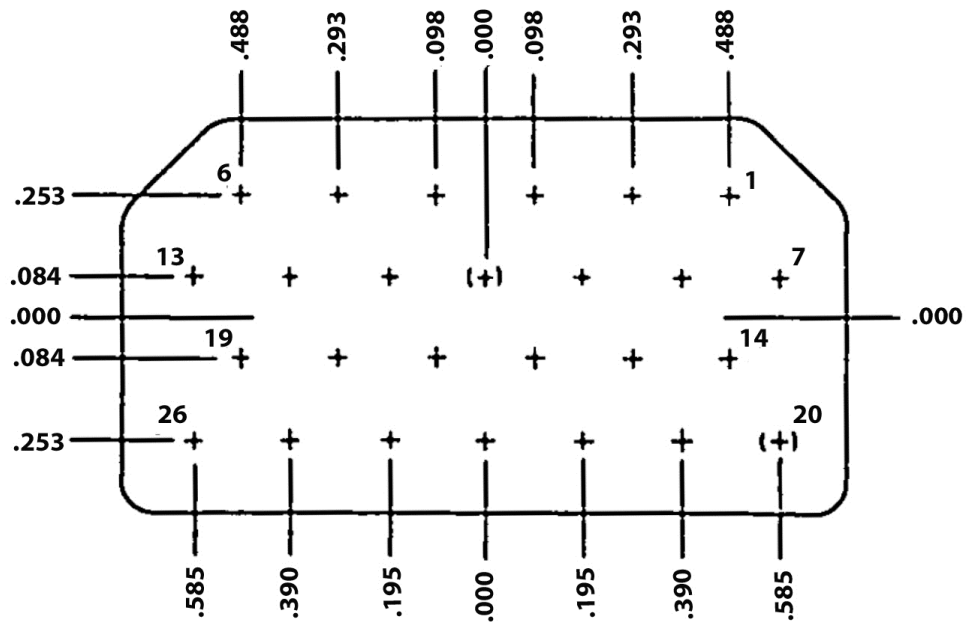


FIGURE 1 - 26 POSITION INSERT ARRANGEMENT
26 SIZE 16 CONTACTS
SHELL DESIGNATOR A – SERVICE RATING B

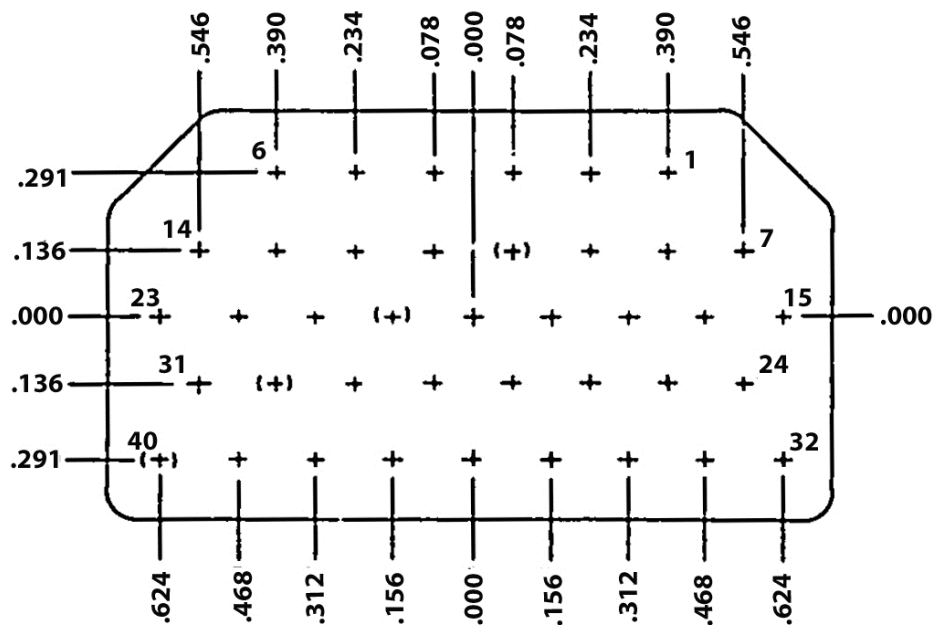


FIGURE 2 - 40 POSITION INSERT ARRANGEMENT
40 SIZE 20 CONTACTS
SHELL DESIGNATOR A – SERVICE RATING B

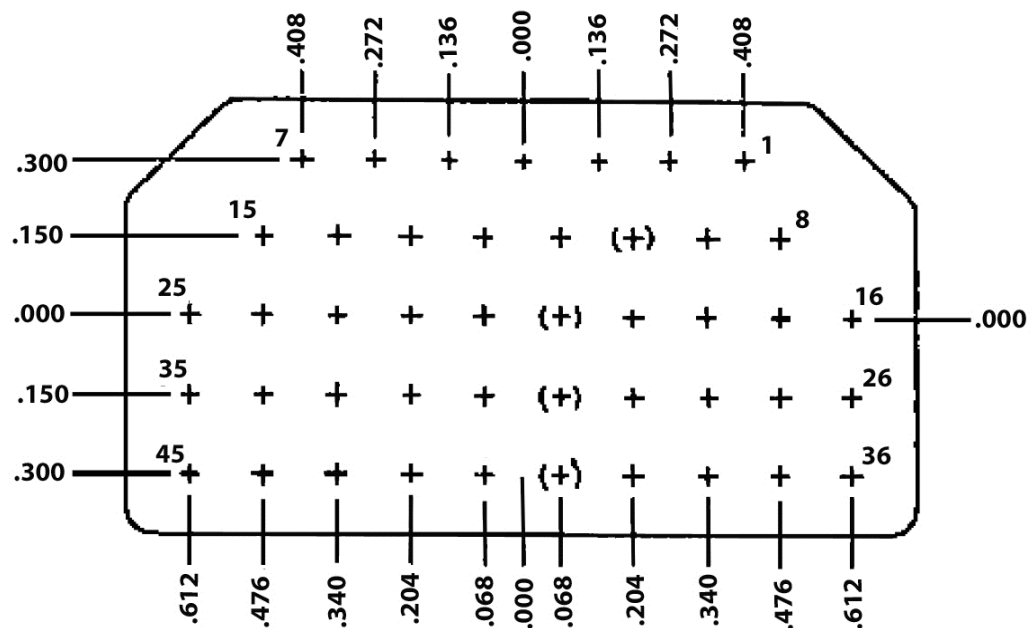


FIGURE 3 - 45 POSITION INSERT ARRANGEMENT
45 SIZE 20 CONTACTS
SHELL DESIGNATOR A – SERVICE RATING B

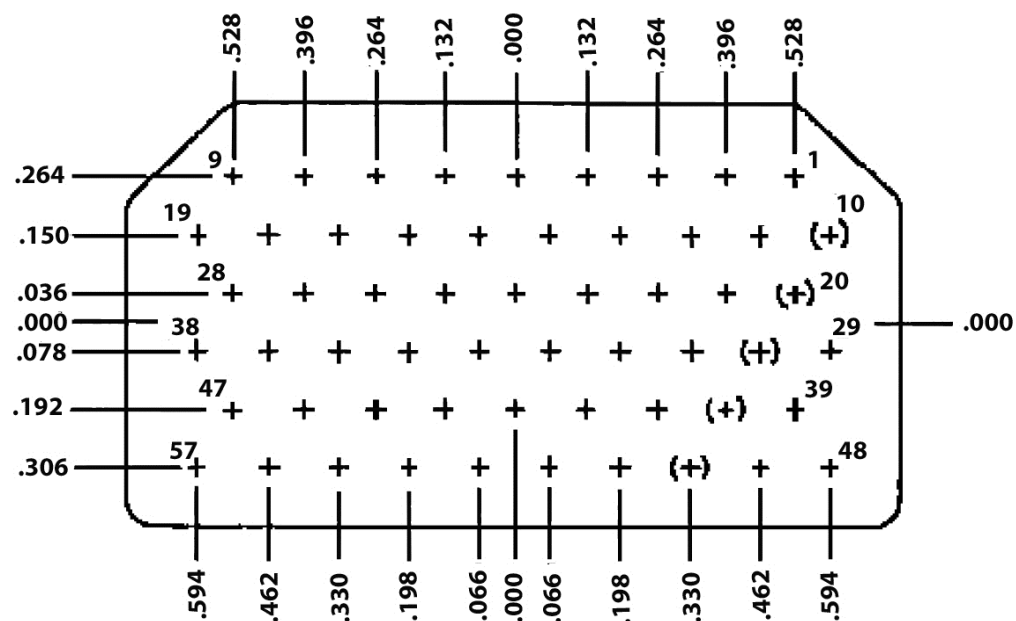


FIGURE 4 - 57 POSITION INSERT ARRANGEMENT
57 SIZE 20 CONTACTS
SHELL DESIGNATOR A – SERVICE RATING B

