

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, REVISE DIMENSIONS, ALIGN SPECIFICATION WITH SAE GUIDELINES AND RE-WORK ILLEGIBLE DRAWINGS/TABLES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

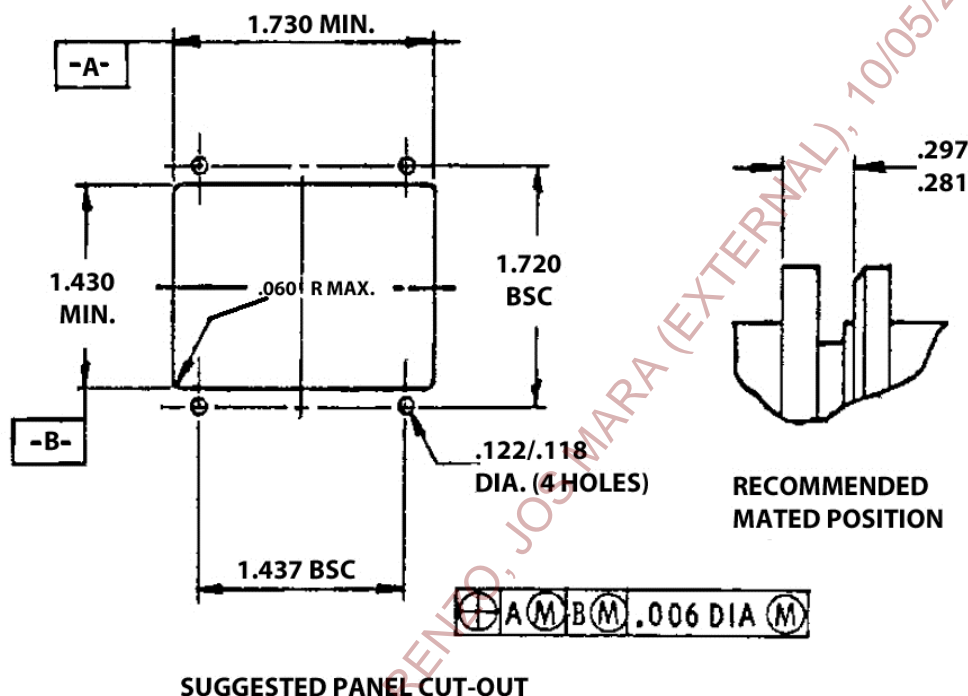
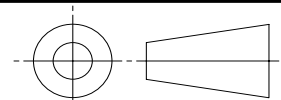


FIGURE 1—CONNECTOR SUGGESTED PANEL CUTOUT/RECOMMENDED MATED POSITION

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.006	.15	.133	3.38	.550	13.97	1.000	25.40	1.541	39.14
.047	1.19	.178	4.52	.7185	18.25	1.175	29.84	1.720	43.69
.060	1.52	.198	5.03	.720	18.29	1.367	34.72	1.730	43.94
.115	2.92	.281	7.14	.885	22.48	1.387	35.23	1.985	50.42
.117	2.97	.297	7.54	.897	22.78	1.427	36.25	2.015	51.18
.118	3.00	.521	13.23	.928	23.57	1.430	36.32	2.032	51.61
.122	3.10	.541	13.74	.948	24.08	1.437	36.50	2.062	52.37
.125	3.18					1.447	36.75	2.320	58.93

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS81659/29A>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81659

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

(R) CONNECTORS, ELECTRICAL, RECTANGULAR, PLUG, CRIMP CONTACTS (SINGLE INSERT, TYPE II, CLASS 1, (-65 °C TO +125 °C), SERIES 2, SHELL DESIGNATOR A)

**SAE AS81659/29**  
SHEET 1 OF 3

**REV. A**



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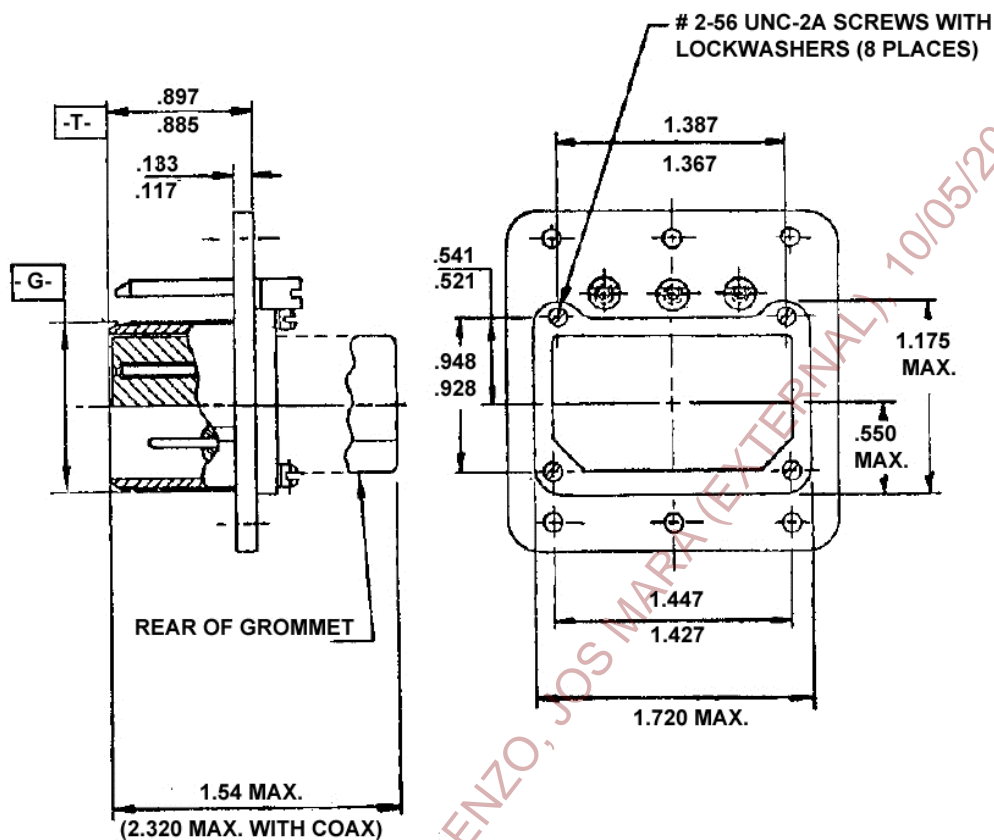


FIGURE 2 – CONNECTOR CONFIGURATIONS AND DIMENSIONS (CONTINUED)

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS81659.

1. DESIGN:

CONNECTOR ACCESSORIES SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 AND 2. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. METRIC EQUIVALENTS ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED UPON 1 INCH = 25.4 MM. NORMAL (01) POLARIZATION POSITION SHOWN, FOR ALTERNATE POSITIONS SEE AS81659. FOR LOCATION OF DATUMS G AND H, REFER TO AS81659 FIGURE 4.

2. INSERT ARRANGEMENTS SHALL BE IN ACCORDANCE WITH MS3157.

3. CONTACTS SHALL BE IN ACCORDANCE WITH AS39029/11 OR AS39029/12 AS APPLICABLE.

4. INSTALLING AND REMOVAL TOOLS SHALL BE IN ACCORDANCE WITH MIL-I-81969/1 OR MIL-I-81969/14.

SPECIFICATION NOTES:

A CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT, INCLUDING TECHNICAL REVISIONS. CHANGE BARS AND (R) ARE NOT USED IN ORIGINAL PUBLICATIONS NOR IN DOCUMENTS THAT CONTAIN EDITORIAL CHANGES ONLY.

<b>SAE Aerospace</b> An SAE International Group	<b>AEROSPACE STANDARD</b> (R) CONNECTORS, ELECTRICAL, RECTANGULAR, PLUG, CRIMP CONTACTS (SINGLE INSERT, TYPE II, CLASS 1, (-65 °C TO +125 °C), SERIES 2, SHELL DESIGNATOR A)	<b>SAE AS81659/29</b> SHEET 3 OF 3	<b>REV.</b> <b>A</b>
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