

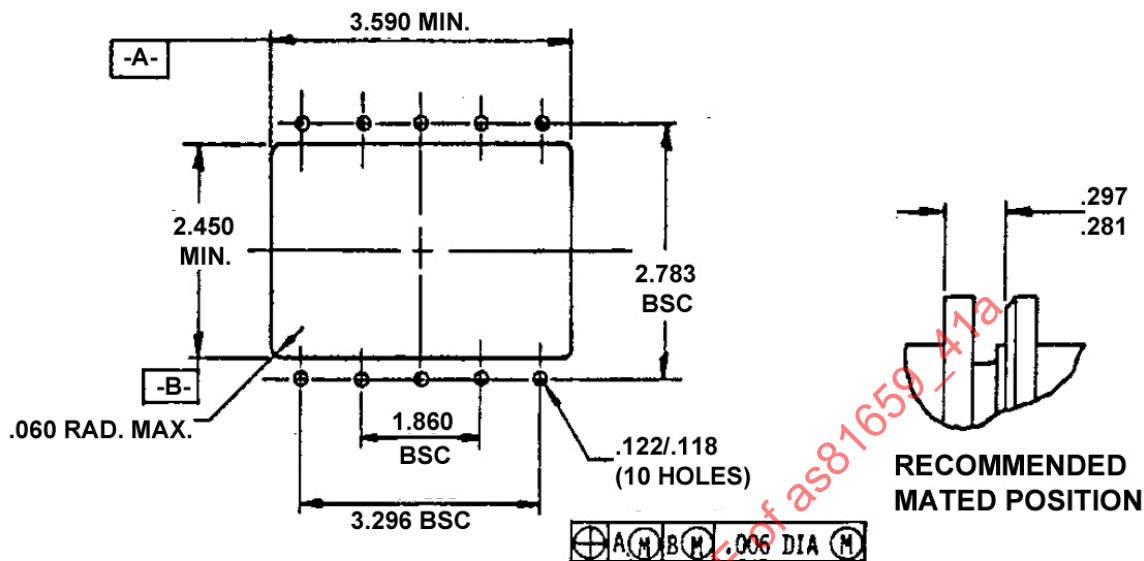
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SAE AS81659/41

FEDERAL SUPPLY CLASS  
5935

# 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.



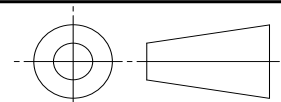
## SUGGESTED PANEL CUT-OUT DIMENSIONS

FIGURE 1 – CONNECTOR SUGGESTED PANEL CUTOUT/RECOMMENDED MATED POSITION

| INCHES | MM   | INCHES | MM    | INCHES | MM    | INCHES | MM    | INCHES | MM    |
|--------|------|--------|-------|--------|-------|--------|-------|--------|-------|
| .006   | .15  | .178   | 4.52  | .885   | 22.48 | 1.427  | 36.25 | 2.783  | 70.69 |
| .047   | 1.19 | .198   | 5.03  | .897   | 22.78 | 1.447  | 36.75 | 3.095  | 78.61 |
| .060   | 1.52 | .225   | 5.72  | .928   | 23.57 | 1.541  | 39.14 | 3.125  | 79.38 |
| .093   | 2.36 | .235   | 5.97  | .930   | 23.62 | 1.648  | 41.86 | 3.296  | 83.72 |
| .117   | 2.97 | .281   | 7.14  | .948   | 24.08 | 1.860  | 47.24 | 3.580  | 90.93 |
| .118   | 3.00 | .297   | 7.54  | 1.367  | 34.72 | 2.320  | 58.93 | 3.590  | 91.19 |
| .122   | 3.10 | .521   | 13.23 | 1.387  | 35.23 | 2.440  | 61.98 | 3.845  | 97.66 |
| .133   | 3.38 | .541   | 13.74 | 1.3915 | 35.34 | 2.450  | 62.23 | 3.875  | 98.43 |

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS81659/41>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS81659

**SAE Aerospace**  
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## AEROSPACE STANDARD

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

**SAE AS81659/41**  
SHEET 1 OF 3

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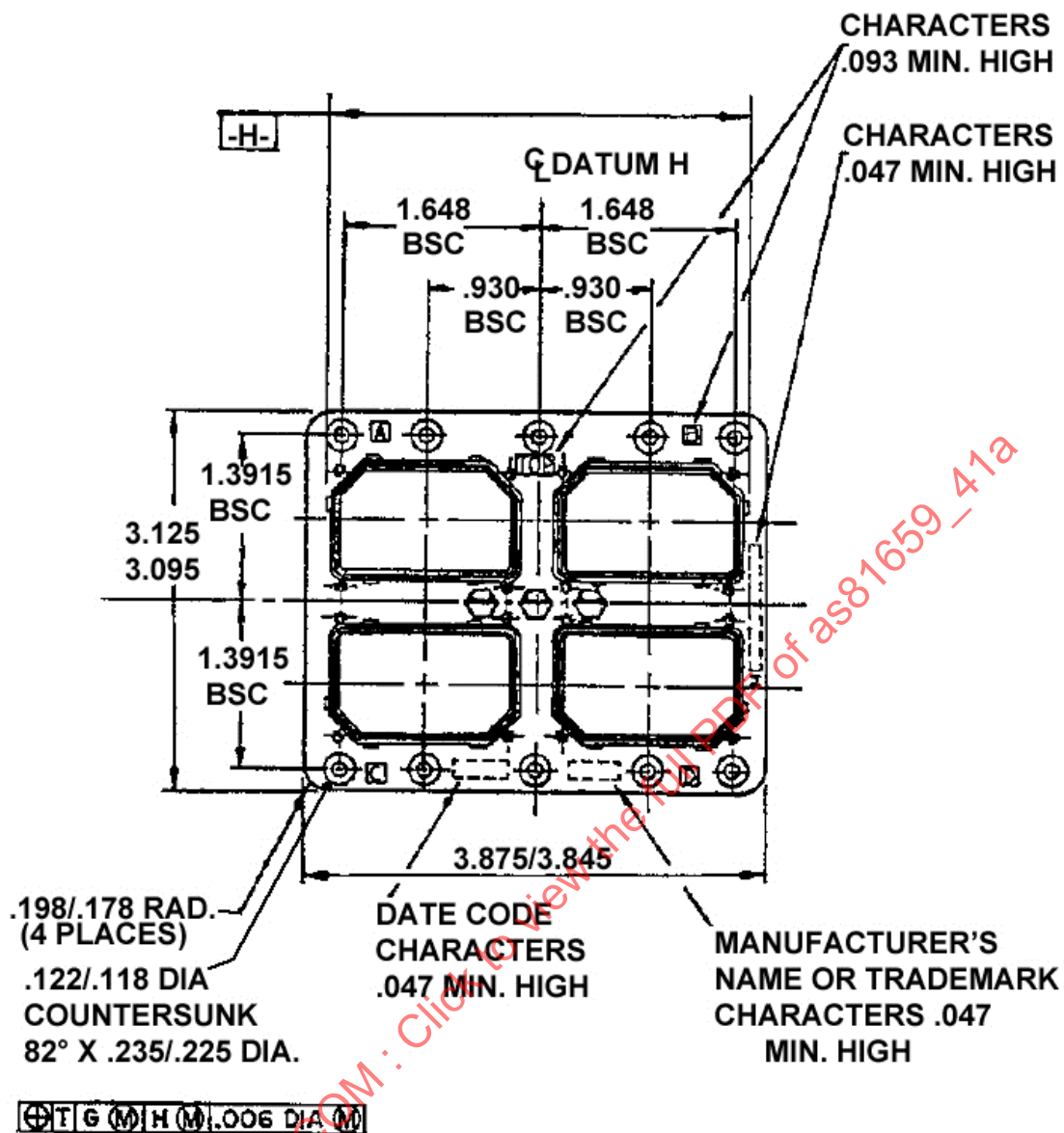


FIGURE 2 – CONNECTOR CONFIGURATIONS AND DIMENSIONS