

REV.
C

AS34121™

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, TO UPDATE APPLICATION NOTES, TO ADD METRIC EQUIVALENTS, AND DOCUMENT FORMAT TO LATEST SAE GUIDELINES.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

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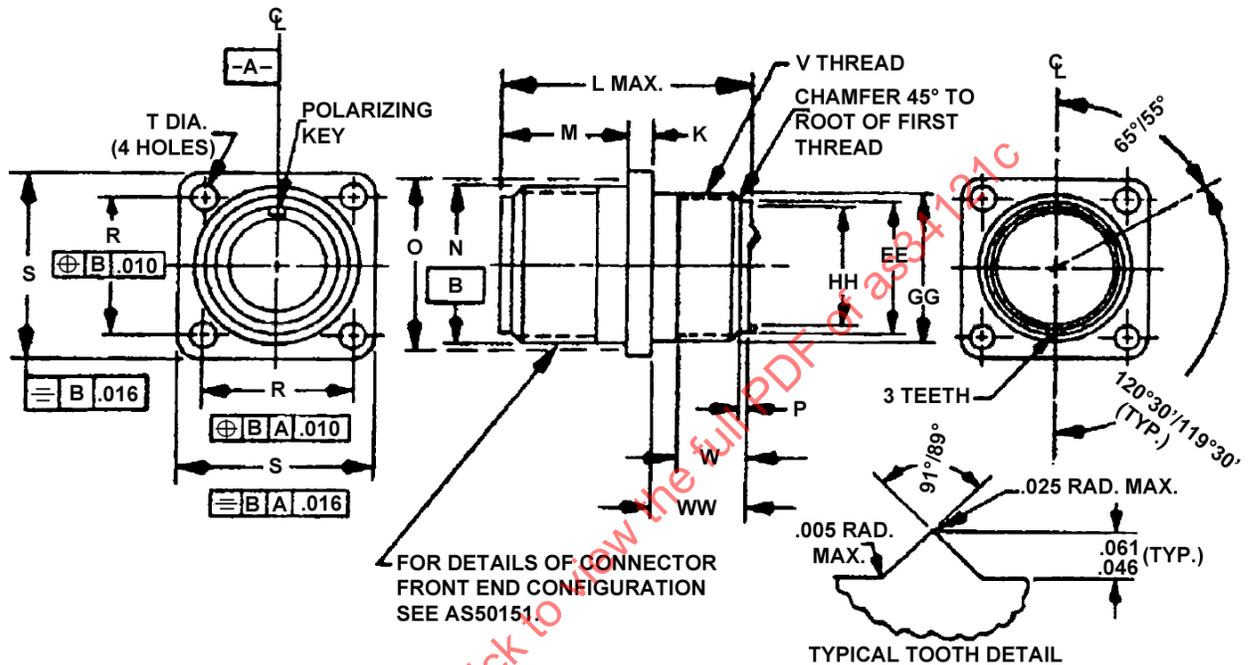
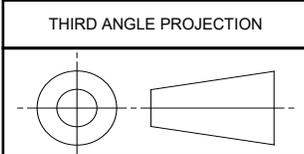


FIGURE 1 – AS34121 CONFIGURATIONS—CLASSES D, L, U, AND W ENVIRONMENT RESISTANT INTERFACE ONLY, WITH ACCESSORY THREADS

TABLE 1 – FIGURE 1 METRIC EQUIVALENTS

| INCHES | MILLIMETERS | INCHES | MILLIMETERS | INCHES | MILLIMETERS |
|--------|-------------|--------|-------------|--------|-------------|
| .005 | 0.127 | .016 | 0.406 | .046 | 1.17 |
| .010 | 0.254 | .025 | 0.635 | .061 | 1.55 |

For more information on this standard, visit
<https://www.sae.org/standards/content/AS34121C/>



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS50151



AEROSPACE STANDARD

(R) CONNECTORS, RECEPTACLE, ELECTRIC, WALL MOUNTING, FRONT RELEASE, CRIMP CONTACT, AN TYPE – WITH ACCESSORY THREADS

AS34121™
SHEET 1 OF 3

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ISSUED 1997-10 REVISED 2016-05 REAFFIRMED 2021-01

TABLE 2 – AS34121 DIMENSIONS

| SIZE | K +/- .015 | L MAX. | | M +.031 -.000 | N +.000 -.062 | O (REF) MTG. HOLE | R T.P. C _L -C _L | S +/- .031 | T +.010 -.005 | | | | |
|------|----------------|---------------------------|----------------------------|---------------------|---------------------|----------------------------|---|---------------|---------------------|---------------|---------------|---------------|-------------|
| | | SIZE 16 & 12 CONT'S | SIZE 8, 4 & 0 CONT'S | | | | | | | | | | |
| 8S | .083 (2.11) | 1.662 (42.21) | N/A | .562 (14.27) | .532 (13.51) | .562 (14.27) | .594 (15.09) | .875 (22.23) | .120 (3.05) | | | | |
| 10S | | | | | .656 (16.66) | .688 (17.48) | .719 (18.26) | 1.000 (25.40) | | | | | |
| 10SL | | | | | .782 (19.86) | .812 (20.62) | .812 (20.62) | 1.094 (27.79) | | | | | |
| 12S | | | | | | | | | | | | | |
| 12 | | | | | .750 (19.05) | .906 (23.01) | .938 (23.83) | .906 (23.01) | | 1.188 (30.18) | | | |
| 14S | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 16S | | | | | | | | | | | | | |
| 16 | | | | | .562 (14.27) | 1.937 (49.20) | .750 (19.05) | 1.032 (26.21) | | 1.062 (26.97) | .969 (24.61) | 1.281 (32.54) | .147 (3.73) |
| 18 | | | | | 1.156 (29.36) | | | 1.188 (30.18) | | 1.062 (26.97) | 1.375 (34.93) | | |
| 20 | 1.282 (32.56) | 1.312 (33.32) | 1.156 (29.36) | 1.500 (38.10) | | | | | | | | | |
| 22 | 1.406 (35.71) | 1.438 (36.53) | 1.250 (31.75) | 1.625 (41.28) | | | | | | | | | |
| 24 | .812 (20.62) | 1.532 (38.91) | 1.562 (39.67) | 1.375 (34.93) | 1.750 (44.45) | | | | | | | | |
| 28 | 1.782 (45.26) | 1.812 (46.02) | 1.562 (39.67) | 2.000 (50.80) | | | | | | | | | |
| 32 | 2.032 (51.61) | 2.062 (52.37) | 1.750 (44.45) | 2.250 (57.15) | | | | | | | | | |
| 36 | 2.282 (57.96) | 2.312 (58.72) | 1.938 (49.23) | 2.500 (63.50) | | | | | | | | | |
| 40 | 2.532 (64.31) | 2.562 (65.07) | 2.188 (55.58) | 2.750 (69.85) | | | | | | | | | |
| 44 | 2.782 (70.66) | 2.812 (71.42) | 2.375 (60.33) | 3.000 (76.20) | | | | | | | | | |
| 48 | 3.032 (77.01) | 3.062 (77.77) | 2.625 (66.68) | 3.250 (82.55) | | | | | | | | | |

TABLE 2 – AS34121 DIMENSIONS (CONTINUED)

| SIZE | V THREAD CLASS 2A | EE | GG MAX. | HH +/- .005 | P +/- .005 | W MIN. | WW MIN. |
|------|----------------------|---------------------------|---------------|----------------|----------------|-----------------|-----------------|
| 8S | .500-20 UNEF | .426/.419 (10.82/10.64) | .499 (12.67) | .368 (9.35) | .065 (1.65) | .290 (7.37) | .310 (7.87) |
| 10S | .625-24 UNEF | .562/.555 (14.27/14.10) | .625 (15.88) | .502 (12.75) | | | |
| 10SL | .625-24 UNEF | | | | | | |
| 12S | .750-20 UNEF | .679/.672 (17.25/17.07) | .750 (19.05) | .618 (15.70) | | | |
| 12 | .750-20 UNEF | | | | | | |
| 14S | .875-20 UNEF | .804/.797 (20.42/20.24) | .875 (22.23) | .743 (18.87) | | | |
| 14 | .875-20 UNEF | | | | | | |
| 16S | 1.000-20 UNEF | | | | | | |
| 16 | 1.000-20 UNEF | | | | | | |
| 18 | 1.062-18 UNEF | .984/.977 (24.99/24.82) | 1.062 (26.97) | .924 (23.47) | | | |
| 20 | 1.188-18 UNEF | 1.109/1.102 (28.17/27.99) | 1.187 (30.15) | 1.049 (26.64) | | | |
| 22 | 1.312-18 UNEF | 1.234/1.227 (31.34/31.17) | 1.312 (33.32) | 1.174 (29.82) | | | |
| 24 | 1.438-18 UNEF | 1.359/1.352 (34.52/34.34) | 1.437 (36.50) | 1.299 (32.99) | | | |
| 28 | 1.750-18 UNS | 1.613/1.603 (40.97/40.72) | 1.750 (44.45) | 1.520 (38.61) | | | |
| 32 | 2.000-18 UNS | 1.863/1.853 (47.32/47.07) | 2.000 (50.80) | 1.770 (44.96) | | | |
| 36 | 2.250-16 UN | 2.113/2.103 (53.67/53.42) | 2.250 (57.15) | 1.985 (50.42) | .095 (2.41) | .467 (11.86) | .487 (12.37) |
| 40 | 2.500-16 UN | 2.363/2.353 (60.02/59.77) | 2.500 (63.50) | 2.200 (55.88) | | | |
| 44 | 2.750-16 UN | 2.613/2.603 (66.37/66.12) | 2.750 (69.85) | 2.455 (62.36) | | | |
| 48 | 3.000-16 UN | 2.858/2.848 (72.59/72.34) | 3.000 (76.20) | 2.705 (68.71) | | | |
| | | | | | | | |

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS50151.

1. DESIGN AND CONSTRUCTION:

CONNECTORS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2. DIMENSIONS SHOWN ARE IN INCHES AND APPLY AFTER PLATING. UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± .016. DIMENSIONS AND TOLERANCING SHALL BE IN ACCORDANCE WITH ASME Y14.5. ALL DIMENSIONS PROVIDED IN PARENTHESES ARE METRIC EQUIVALENTS, ARE GIVEN FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MILLIMETERS.

AS50151 CRIMP CONTACT, FRONT AND REAR RELEASE CONNECTORS, AND SOLDER CONTACT CONNECTORS ARE INTERMATEABLE.

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|  | AEROSPACE STANDARD | | AS34121™ SHEET 2 OF 3 | REV. C |
| | (R) CONNECTORS, RECEPTACLE, ELECTRIC, WALL MOUNTING, FRONT RELEASE, CRIMP CONTACT, AN TYPE – WITH ACCESSORY THREADS | | | |