

REV.
C

RATIONALE

REVISION IS REQUIRED TO CORRECT CRIMP TOOL ERROR IN TABLE 3 FOR BIN CODE 507 AND TO RE-WORK FIGURES TO IMPROVE LEGIBILITY OF PRODUCT FEATURES AND DIMENSIONS.

AS39029/1

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS39029.

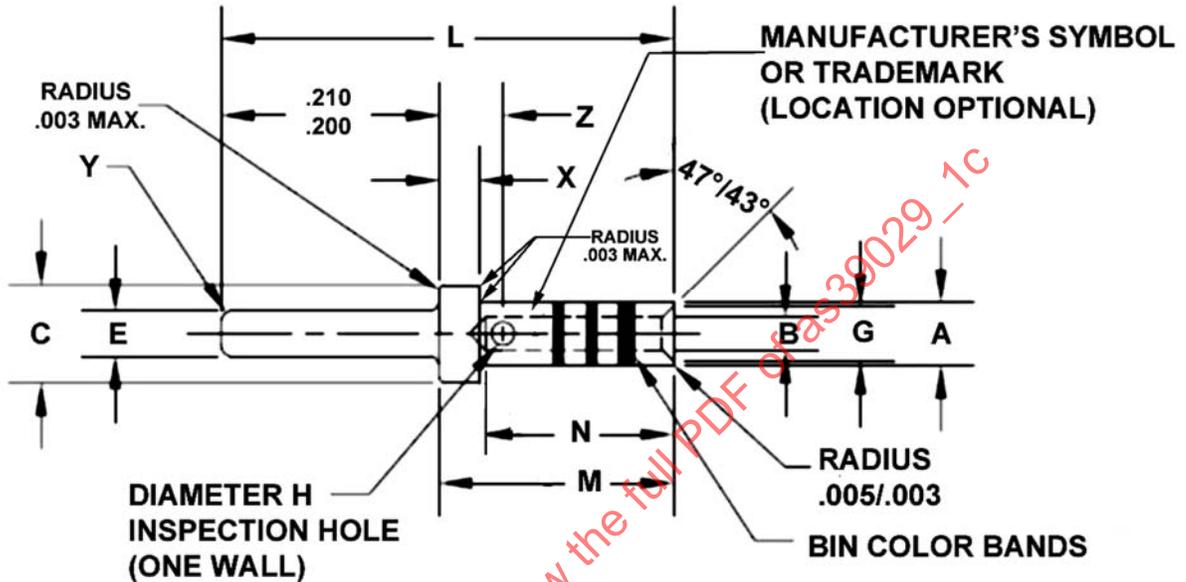


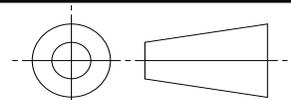
FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101)

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

| INCHES | MILLIMETERS | INCHES | MILLIMETERS |
|--------|-------------|--------|-------------|
| .003 | 0.076 | .200 | 5.08 |
| .005 | 0.127 | .210 | 5.33 |

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/1C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



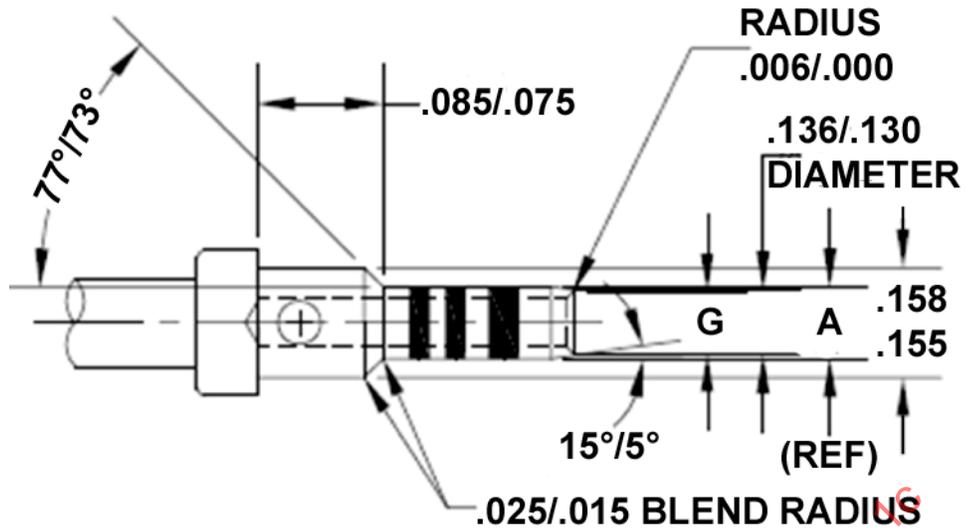
AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM)

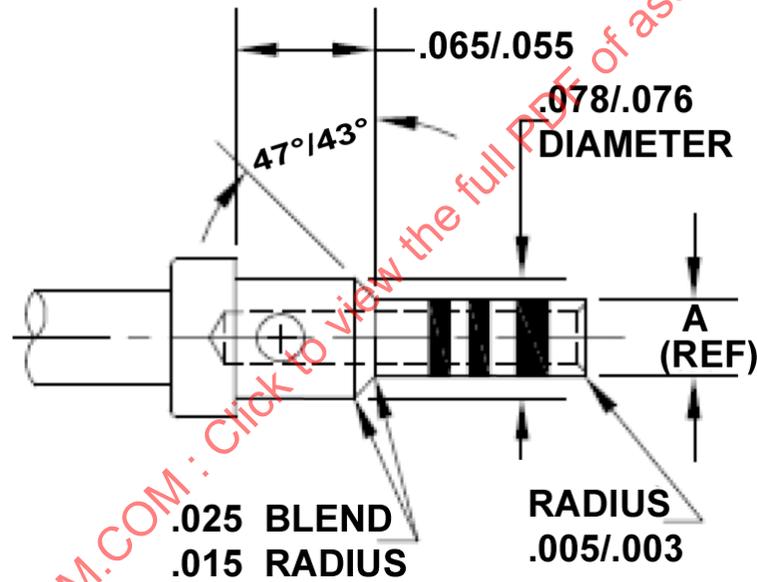
AS39029/1
SHEET 1 OF 5

REV.
C

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user." SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.



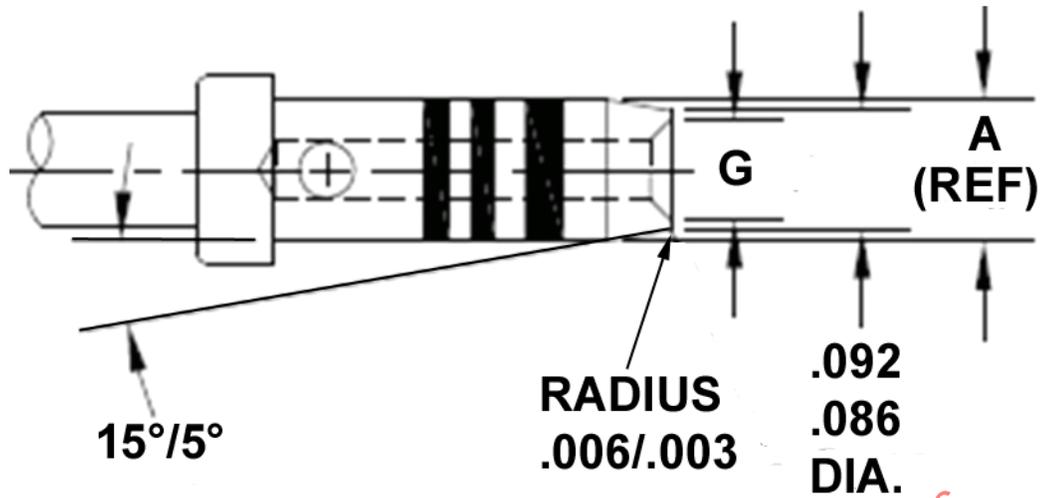
SIZE 12 WIRE BARREL (BIN 103)



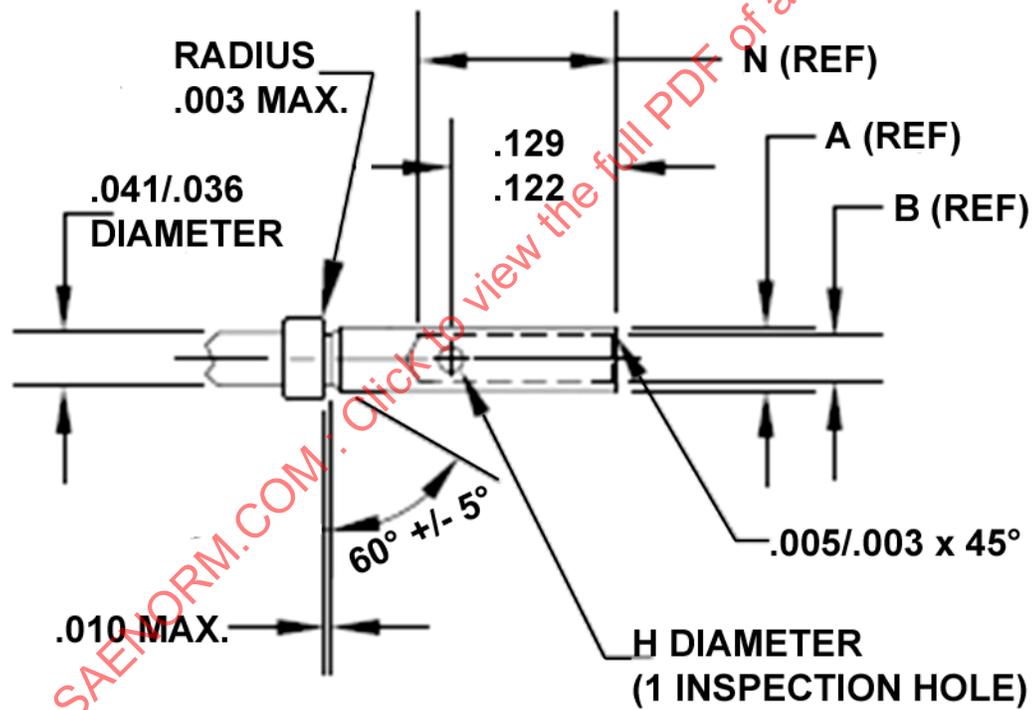
WIRE BARREL SIZE 22 (BIN 100)

FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101) (CONTINUED)

| | | | |
|---|---|----------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS39029/1 SHEET 2 OF 5 | REV. C |
| | (R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM) | | |



WIRE BARREL SIZE 16 (BIN 102)



WIRE BARREL SIZE 22D (BIN 507)

FIGURE 1 - AS39029/1 PIN CONTACT WITH SIZE 20 WIRE BARREL (BIN 101) (CONTINUED)

| | | | |
|---|---|----------------------------------|-------------------------|
|  | AEROSPACE STANDARD | AS39029/1 SHEET 3 OF 5 | REV. C |
| | (R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS81714 TERMINAL JUNCTION SYSTEM) | | |

TABLE 2 - CONTACT DIMENSIONS

| BIN CODE | A DIA | B DIA | C DIA | E DIA | G DIA | H DIA | L (REF) | M | N | X | Y RAD | Z |
|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|
| 100 | .051 (1.30) | .037 (0.94) | .103 (2.62) | .063 (1.60) | .046 (1.17) | .022 (0.56) | .418 (10.62) | .215 (5.46) | .186 (4.72) | .033 (0.84) | .025 (0.64) | .063 (1.60) |
| | .048 (1.22) | .035 (0.89) | .100 (2.54) | .061 (1.55) | .042 (1.07) | .018 (0.46) | | .211 (5.36) | .157 (3.99) | .029 (0.74) | .015 (0.38) | .057 (1.45) |
| | .078 (1.98) | .050 (1.27) | .103 (2.62) | .063 (1.60) | .064 (1.63) | .032 (0.81) | | .215 (5.46) | .186 (4.72) | .033 (0.84) | .025 (0.64) | .063 (1.60) |
| 101 | .076 (1.93) | .048 (1.22) | .100 (2.54) | .061 (1.55) | .060 (1.52) | .026 (0.66) | .418 (10.62) | .211 (5.36) | .157 (3.99) | .029 (0.74) | .015 (0.38) | .057 (1.45) |
| | .105 (2.67) | .068 (1.73) | .133 (3.38) | .078 (1.98) | .090 (2.29) | .042 (1.07) | | .298 (7.57) | .281 (7.14) | .048 (1.22) | .035 (0.89) | .079 (2.01) |
| | .101 (2.57) | .066 (1.68) | .130 (3.30) | .076 (1.93) | .080 (2.03) | .036 (0.91) | | .294 (7.47) | .250 (6.35) | .044 (1.12) | .025 (0.64) | .073 (1.85) |
| 102 | .153 (3.87) | .102 (2.59) | .190 (4.83) | .095 (2.41) | .125 (3.18) | .042 (1.07) | .501 (12.73) | .298 (7.57) | .281 (7.14) | .048 (1.22) | .045 (1.14) | .079 (2.01) |
| | .147 (3.73) | .098 (2.49) | .187 (4.75) | .093 (2.36) | .115 (2.92) | .036 (0.91) | | .294 (7.47) | .250 (6.35) | .044 (1.12) | .035 (0.89) | .073 (1.85) |
| | .048 (1.22) | .0355 (0.90) | .062 (1.57) | .041 (1.04) | N/A | .022 (0.56) | | .253 (6.43) | .157 (3.99) | .033 (0.84) | .025 (0.64) | N/A |
| .046 (1.17) | .0335 (0.85) | .060 (1.52) | .039 (0.99) | .018 (0.46) | | .249 (6.32) | .141 (3.58) | .029 (0.74) | .015 (0.38) | | | |
| .046 (1.17) | .0335 (0.85) | .060 (1.52) | .039 (0.99) | .018 (0.46) | | .249 (6.32) | .141 (3.58) | .029 (0.74) | .015 (0.38) | | | |

TABLE 3 - MARKING AND DESIGN CHARACTERISTICS

| BIN CODE | COLOR BANDS | | | MATING END SIZE | WIRE BARREL SIZE | TYPE | CLASS |
|----------|-------------|-------|--------|-----------------|------------------|------|-------|
| | 1ST | 2ND | 3RD | | | | |
| 100 | BROWN | BLACK | BLACK | 16 | 22 | A | B |
| 101 | BROWN | BLACK | BROWN | 16 | 20 | | |
| 102 | BROWN | BLACK | RED | 14 | 16 | | |
| 103 | BROWN | BLACK | ORANGE | 12 | 12 | | |
| 507 | GREEN | BLACK | VIOLET | 20 | 22D | | |

1/ BIN CODE 102 SHALL MEET ALL THE REQUIREMENTS OF SIZE 16-16 IN AS39029.

TABLE 4 - TOOL REQUIREMENTS

| BIN CODE | BASIC CRIMPING TOOL | POSITIONER | INSTALLING/REMOVAL TOOL |
|----------|---------------------|--------------------|--|
| 100 | M22520/2-01 | M22520/2-11 | M81969/14-10 |
| 101 | M22520/1-01 | M22520/1-02 Red | |
| | M22520/2-01 | M22520/2-11 | |
| 102 | M22520/1-01 | M22520/1-02 Blue | M81969/14-03 |
| 103 | M22520/1-01 | M22520/1-02 Yellow | M81969/14-04 |
| 507 | M22520/2-01 | M22520/2-32 | M81969/14-01 or M81969/1-04 or M81969/8-01 or M81969/8-02 |