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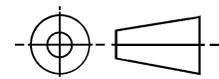
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THIRD ANGLE PROJECTION



ISSUED 2000-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-C-24308, MIL-C-38999 SERIES I, II, III, AND IV, AND MIL-C-55302/69 AND MIL-C-83733 CONNECTORS)

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SHEET 1 OF 7

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THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: MIL-C-39029.

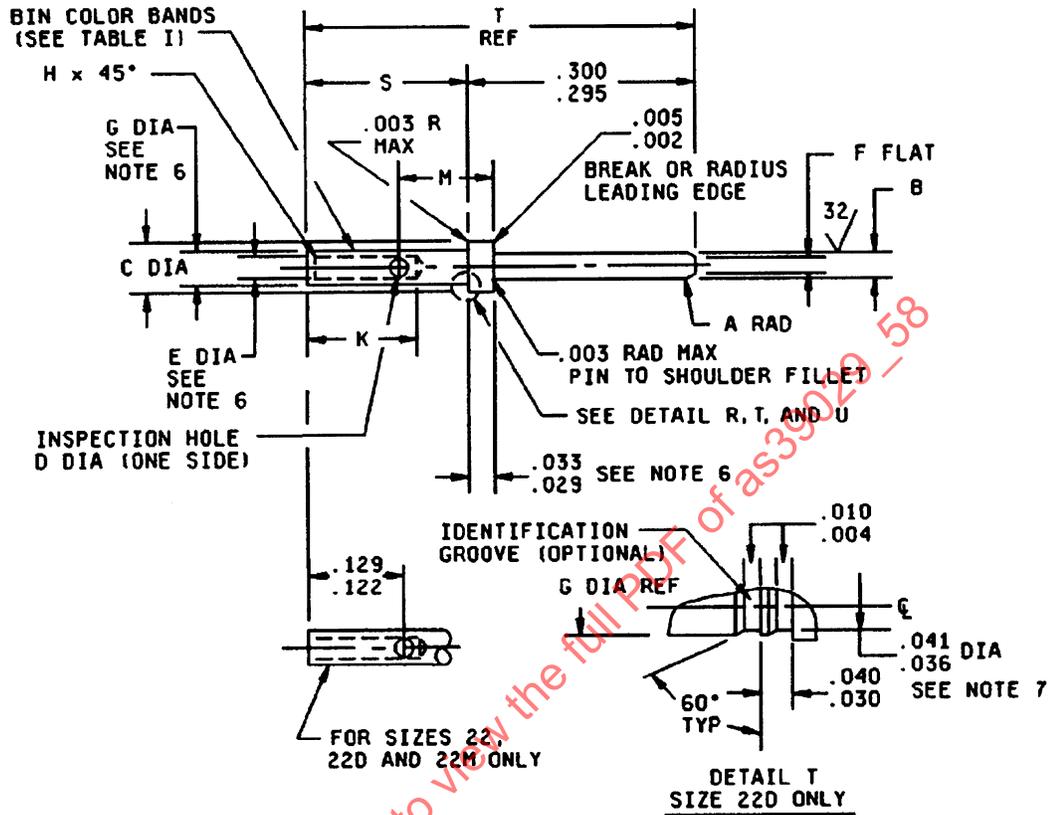
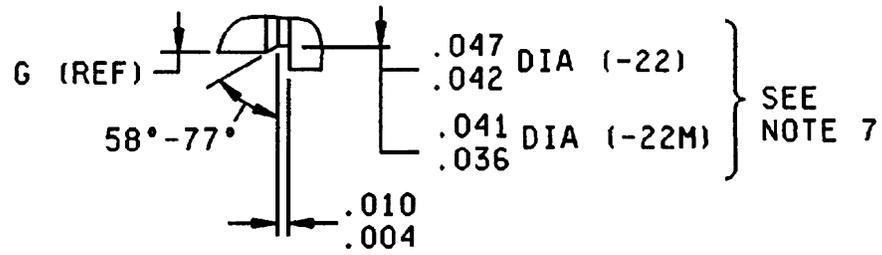
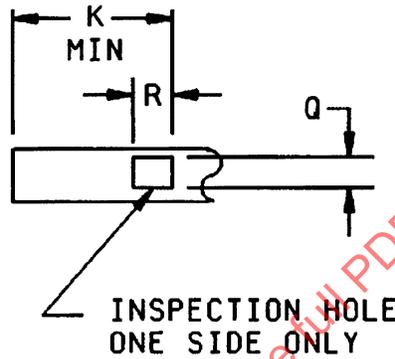


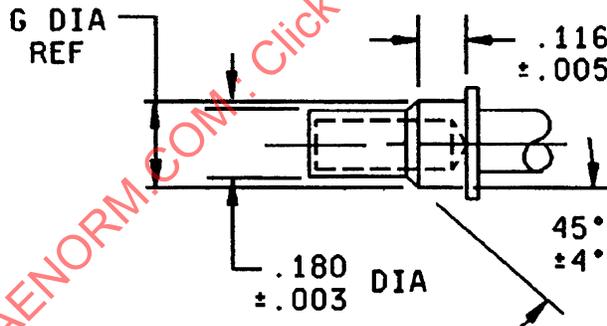
FIGURE 1. CONNECTOR CONTACT.



DETAIL R
SIZES 22, 22M ONLY



DETAIL W
(OPTIONAL DESIGN)



DETAIL U (SIZE 10 ONLY)

FIGURE 1. CONNECTOR CONTACT - CONTINUED.

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| BIN code | A radius | B dia | C dia | D dia | E dia | F dia | G dia | H | K min | M | Q | R | S | T (REF) | | | | | |
|-----------------|-------------|----------|----------|----------|----------|----------|----------|--------|----------|-------|-------|-------|------|------------|--------|---------|---------|---------|---------|
| 360 | .020 | .0305 | .062 | .022 | .0355 | .011 | .048 | .005 | .141 | ----- | .022 | .046 | .237 | .531 | | | | | |
| | (0.51) | (0.774) | (1.57) | (.056) | (0.902) | (0.28) | (1.23) | (0.13) | | | | | | | (0.56) | (1.17) | (6.02) | (13.49) | |
| | .010 | .0295 | .060 | .018 | .0335 | max | .046 | .003 | | | | | | | (0.46) | (0.46) | (5.87) |) | |
| 361 (note 4) | .020 | .0305 | .062 | .022 | .029 | .011 | .046 | .005 | .141 | ----- | ----- | ----- | .237 | .531 | | | | | |
| | (0.51) | (0.774) | (1.57) | (0.56) | (0.66) | (0.28) | (1.67) | (0.13) | | | | | | | (6.02) | (13.49) | | | |
| | .010 | .0295 | .060 | .018 | .027 | max | .044 | .003 | | | | | | | (5.87) |) | | | |
| 362 (note 4) | .020 | .0305 | .071 | .022 | .0375 | .011 | .052 | .005 | .141 | ----- | ----- | ----- | .237 | .531 | | | | | |
| | (0.51) | (0.774) | (1.80) | (0.56) | (0.953) | (0.28) | (1.32) | (0.13) | | | | | | | (6.02) | (13.49) | | | |
| | .010 | .0295 | .069 | .018 | .0355 | max | .050 | .003 | | | | | | | (5.87) |) | | | |
| 363 | .025 | .041 | .094 | .032 | .048 | .015 | .070 | .010 | .209 | .078 | .032 | .063 | .237 | .531 | | | | | |
| | (0.64) | (1.04) | (2.39) | (0.81) | (1.22) | (0.38) | (1.78) | (0.25) | | | | | | | (1.98) | (0.81) | (1.60) | (6.02) | (13.49) |
| | .015 | .039 | .091 | .026 | .046 | max | .068 | .005 | | | | | | | (1.83) | (0.66) | (0.66) | (5.87) |) |
| 364 | .025 | .0635 | .130 | .042 | .068 | .030 | .103 | .010 | .209 | .088 | .042 | .073 | .237 | .531 | | | | | |
| | (0.64) | (1.613) | (3.30) | (1.02) | (1.73) | (0.76) | (2.62) | (0.25) | | | | | | | (2.24) | (1.07) | (1.85) | (6.02) | (13.49) |
| | .020 | .0616 | .127 | .036 | .066 | .011 | .101 | .005 | | | | | | | (2.08) | (0.76) | (0.91) | (5.87) |) |
| 365 | .025 | .095 | .182 | .042 | .102 | .062 | .151 | .016 | .209 | .088 | .042 | .073 | .237 | .531 | | | | | |
| | (0.64) | (2.41) | (4.62) | (1.07) | (2.59) | (1.57) | (3.84) | (0.41) | | | | | | | (2.24) | (1.07) | (1.85) | (6.02) | (13.49) |
| | .020 | .093 | .179 | .036 | .098 | .043 | .148 | .005 | | | | | | | (2.08) | (0.76) | (0.91) | (5.87) |) |
| 528 | .025 | .126 | .242 | .052 | .140 | .094 | .213 | .016 | 355 | .115 | NA | NA | .405 | .647 | | | | | |
| | (0.64) | (3.20) | (6.15) | (1.32) | (3.56) | (2.39) | (5.41) | (0.41) | | | | | | | (2.92) | (10.29) | (16.43) | | |
| | .020 | .124 | .238 | .040 | .134 | .074 | .207 | .005 | | | | | | | (2.74) | .395 | (10.03) |) | |

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Metric equivalents are in parentheses for overall length and diameter only.
4. Inactive for new design.
5. Dimensions shown apply after plating.
6. For BIN code 360 only, diameters E and G are to be concentric within .003 (TIR) regardless of feature size (RFS) for all other contact sizes, diameters E and G to be concentric within .001 (TIR) of maximum material condition (MMC).
7. Concentric to G dia within .003 TIR (RFS).

FIGURE 1. CONNECTOR CONTACT - CONTINUED.

REQUIREMENTS:

Dimensions, design characteristics, and configuration: See figure 1 and table I.

Tools: See table II.

TABLE I. DESIGN CHARACTERISTICS.

| Bin code | Color bands | | | Mating end size | Wire barrel size | Type | Class |
|---------------|-------------|------|--------|-----------------|------------------|------|-------|
| | 1st | 2nd | 3rd | | | | |
| 360 | Orange | Blue | Black | 22 | 22D | A | B |
| 361 <u>1/</u> | Orange | Blue | Brown | 22 | 22M | A | B |
| 362 <u>1/</u> | Orange | Blue | Red | 22 | 22 | A | B |
| 363 | Orange | Blue | Orange | 20 | 20 | A | B |
| 364 | Orange | Blue | Yellow | 16 | 16 | A | B |
| 365 | Orange | Blue | Green | 12 | 12 | A | B |
| 528 | Green | Red | Gray | 10 | 10 | A | B |

1/ Inactive for new design.

TABLE II. TOOLS.

| BIN code | Basic crimping tool | Positioner | Installing tool | Removal tool |
|----------|---|--|--|---------------------------------------|
| 360 | M22520/2-01 M22520/7-01 | M22520/2-09 M22520/7-07 | M81969/14-01 M81969/8-01 | M81969/14-01 M81969/8-02 |
| 361 | M22520/2-01 M22520/7-01 | M22520/2-09 M22520/7-07 | M81969/14-01 M81969/8-01 | M81969/14-01 M81969/8-02 |
| 362 | M22520/2-01 M22520/7-01 | M22520/2-09 M22520/7-07 | M81969/8-03 | M81969/8-04 |
| 363 | M22520/1-01 M22520/2-01 M22520/7-01 | M22520/1-04 Red M22520/2-10 M22520/7-08 | M81969/14-02 M81969/8-05 | M81969/14-02 M81969/8-06 |
| 364 | M22520/1-01 M22520/7-01 | M22520/1-04 Blue M22520/7-04 | M81969/8-07 M81969/14-03 | M81969/8-08 M81969/14-03 |
| 365 | M22520/1-01 | M22520/1-04 Yellow | M81969/14-04 M81969/8-09 | M81969/14-04 M81969/8-10 |
| 528 | M22520/XX <u>1/</u> | M22520/XX <u>1/</u> | M81969/8-XX <u>1/</u> M81969/14-05 | M81969/8-YY <u>1/</u> M81969/14-05 |

1/ To be determined.