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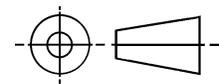
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AS39029/71

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THIRD ANGLE PROJECTION



ISSUED 2000-07

PREPARED BY SAE SUBCOMMITTEE AE-8C1



AEROSPACE STANDARD

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

AS39029/71
SHEET 1 OF 5

THE REQUIREMENTS FOR ACQUIRING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-39029.

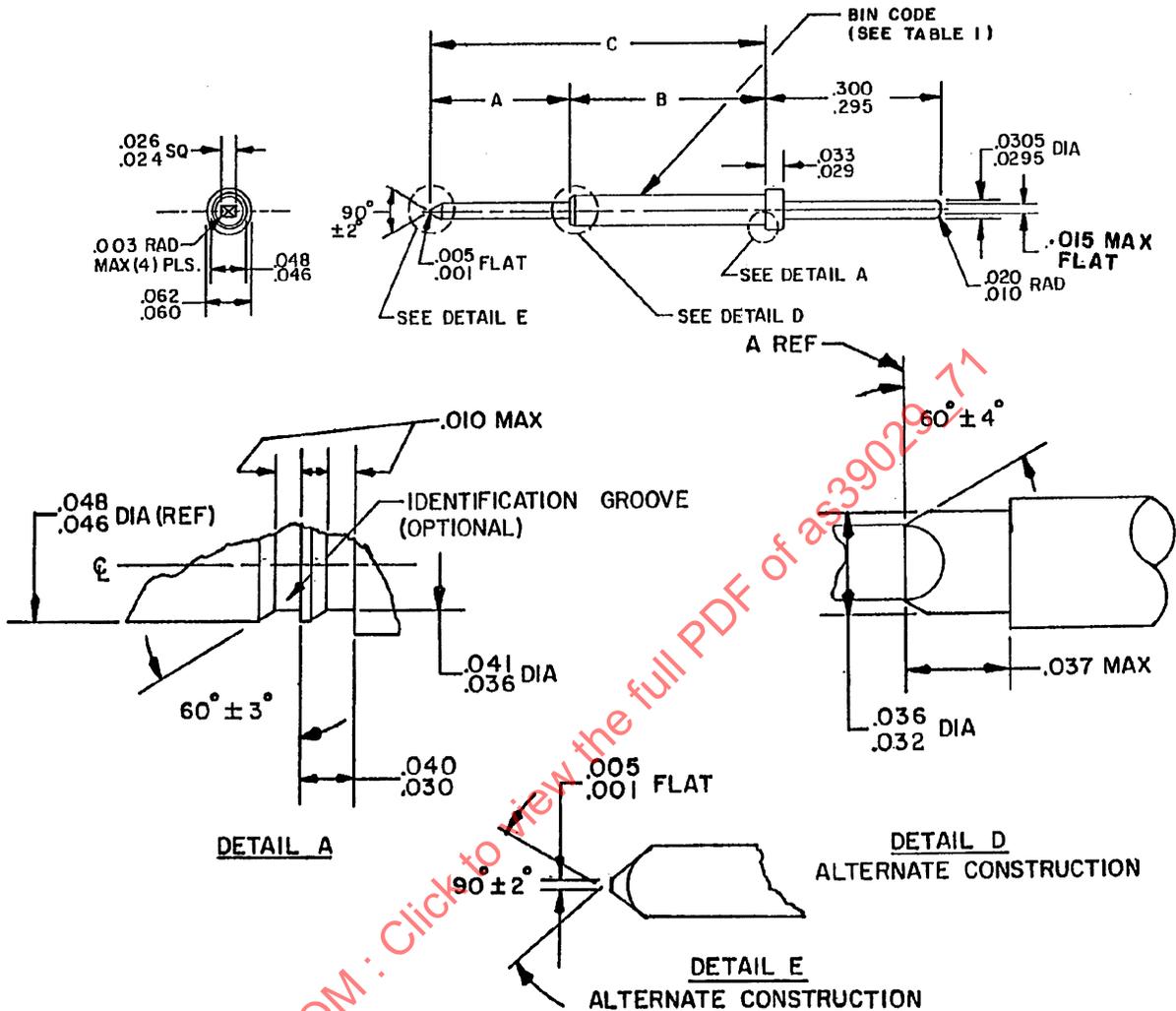


FIGURE 1. CONFIGURATION AND DIMENSIONS.

| Dash no. | A | B | C |
|----------|--------------|--------------|--------------|
| 390 | .205 .200 | .344 .338 | .538 ref. |
| 391 | .306 .302 | .237 .231 | .538 ref. |
| 392 | .355 .340 | .340 ref. | .685 .675 |

| Inches | mm | Inches | mm | Inches | mm |
|--------|-------|--------|------|--------|-------|
| .001 | 0.03 | .032 | 0.81 | .231 | 5.87 |
| .003 | 0.08 | .033 | 0.84 | .237 | 6.02 |
| .005 | 0.13 | .036 | 0.91 | .295 | 7.49 |
| .010 | 0.25 | .037 | 0.94 | .300 | 7.62 |
| .015 | 0.38 | .040 | 1.02 | .302 | 7.67 |
| .020 | 0.51 | .041 | 1.04 | .306 | 7.77 |
| .024 | 0.61 | .046 | 1.17 | .338 | 8.59 |
| .026 | 0.66 | .048 | 1.22 | .340 | 8.64 |
| .029 | 0.74 | .060 | 1.52 | .344 | 8.74 |
| .0295 | 0.750 | .062 | 1.57 | .355 | 9.02 |
| .030 | 0.76 | .200 | 5.08 | .538 | 13.67 |
| .0305 | 0.770 | .205 | 5.21 | .675 | 17.14 |
| | | | | .685 | 17.40 |

NOTES:

1. Dimensions are in inches, apply after plating.
2. Metric equivalents are given for general information only.
3. Not for MIL-W-5088 applications.

FIGURE 1. CONFIGURATION AND DIMENSIONS - CONTINUED.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and table I.

TABLE I. DESIGN CHARACTERISTICS.

| BIN code | Color bands | | | Mating end size | Type | Class |
|----------|-------------|-------|-------|-----------------|------|-------|
| | 1st | 2nd | 3rd | | | |
| 390 | Orange | White | Black | 22 | A | B |
| 391 | Orange | White | Brown | | | |
| 392 | Orange | White | Red | | | |

Qualification:

Shall be in accordance with MIL-C-39029 and MIL-STD-1130 for class A wrap. Suppliers qualified to MIL-C-39029/58 (M39029/58-362) need only test in accordance with MIL-STD-1130 to qualify this contact.

Contacts shall comply with reliability assurance provisions of MIL-STD-790 as specified in MIL-C-38999.

Electrical:

Mating contact: The mating contact shall be as specified in MIL-C-39029/57.

Mechanical:

Vibration: Method 2005 of MIL-STD-1344, test condition VI, letter J, except the duration shall be 8 hours in the longitudinal direction and 8 hours in the perpendicular direction (16 hours total).

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition D. The following exceptions shall apply:

- The pulse shall be an approximate half sine wave of 300 g \pm 15 percent magnitude with a duration of 3 milliseconds \pm 1.
- The wire bundle shall be clamped to fixed points at 8 inches (203.2 mm) from the rear of the connector.

Wire wrapping: Wire wrapping shall be class A and wrapped in accordance with MIL-STD-1130.

Caution: Maintain light tension on the wire at the start of the wrap until one complete turn has been made.

Edge burrs: Wrappost edge burrs shall be .0015 inch (0.14 mm), maximum.

Tools (installation and removal): Tools for installation and removal shall be as specified in table II.

TABLE II. TOOLS.

| Installing and removal tool |
|--|
| M81969/1-04 or M81969/8-01 and M81969/8-02 |

Usage data (see table III): These contacts are for use only on internal wiring of equipment and equipment panels. For MIL-C-38999, use is restricted to receptacles. When used in recommended connectors, these contacts assure the user of an adequate length for proper wrapping.