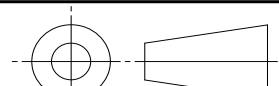


REV. A	RATIONALE CANCELLATION IS REQUIRED BASED ON NO KNOWN USAGE OF THIS PRODUCT AND THE PREPARING ACTIVITY FOR THE APPLICABLE CONNECTORS HAS REQUESTED THIS DETAIL SHEET BE CANCELLED. CANCELLATION NOTICE THIS DOCUMENT HAS BEEN DECLARED "CANCELLED" AS OF AUGUST 2011. BY THIS ACTION, THIS DOCUMENT WILL REMAIN LISTED IN THE NUMERICAL SECTION OF THE AEROSPACE STANDARDS INDEX.		FEDERAL SUPPLY CLASS 5935				
SAE AS39029/104							
SAENORM.COM : Click to view the full PDF of as39029_104a							
CUSTODIAN: AE-8C1			<table border="1" style="width: 100%;"> <tr> <td data-bbox="224 1831 568 1963">  </td> <td data-bbox="568 1831 1144 1963" style="text-align: center;"> AEROSPACE STANDARD CONTACTS, ELECTRICAL CONNECTOR, CONCENTRIC TWINAX, PIN, SHIELDED, SIZE 8 (FOR MIL-C-28840) </td> <td data-bbox="1144 1831 1416 1963"> SAE AS39029/104 SHEET 1 OF 8 </td> <td data-bbox="1416 1831 1485 1963" style="text-align: center;"> REV. A </td> </tr> </table>		AEROSPACE STANDARD CONTACTS, ELECTRICAL CONNECTOR, CONCENTRIC TWINAX, PIN, SHIELDED, SIZE 8 (FOR MIL-C-28840)	SAE AS39029/104 SHEET 1 OF 8	REV. A
	AEROSPACE STANDARD CONTACTS, ELECTRICAL CONNECTOR, CONCENTRIC TWINAX, PIN, SHIELDED, SIZE 8 (FOR MIL-C-28840)	SAE AS39029/104 SHEET 1 OF 8	REV. A				
SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AS39029/104A		THIRD ANGLE PROJECTION 					
ISSUED 2000-07 CANCELLED 2011-08							

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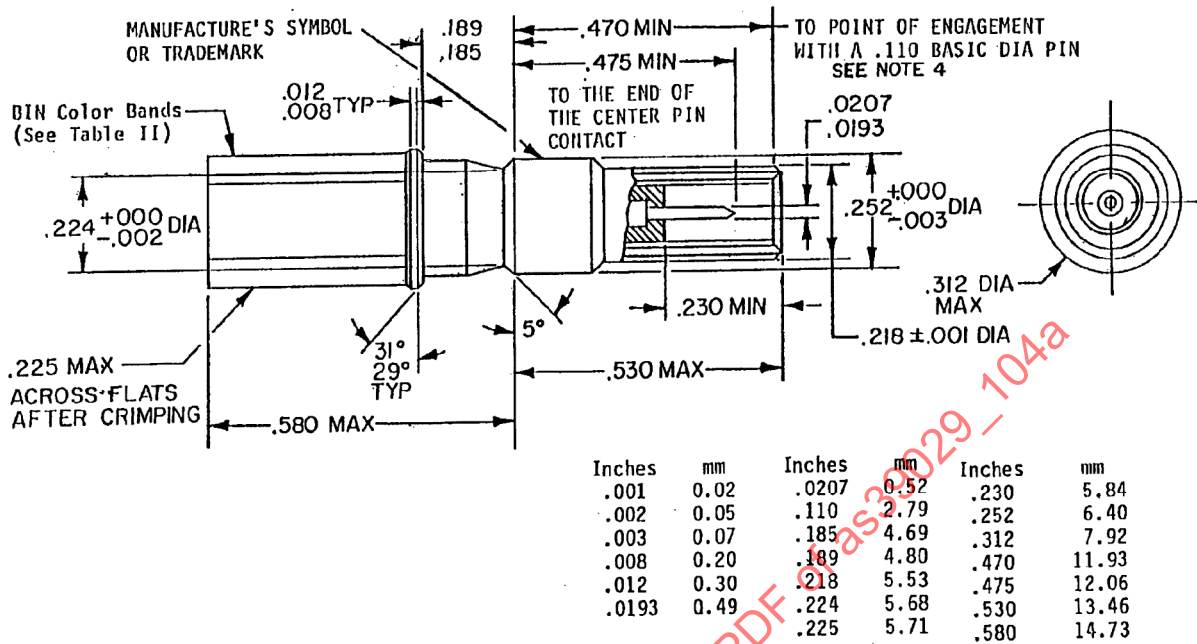
THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

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 An SAE International Group	AEROSPACE STANDARD	SAE AS39029/104 SHEET 2 OF 8	REV. A
	CONTACTS, ELECTRICAL CONNECTOR, CONCENTRIC TWINAX, PIN, SHIELDED, SIZE 8 (FOR MIL-C-28840)		

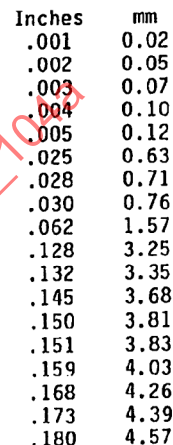
THE REQUIREMENTS FOR ACQUIRING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF MIL-C-39029.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions shown apply after plating.
4. Point at which a square ended pin of the same basic diameter as the mating contact first engages the intermediate contact spring. Provision for clearance hole shall be provided for the test pin.

FIGURE 1. CONCENTRIC TWINAX CONTACT.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions shown apply after plating.

FIGURE 2. INTERMEDIATE SOCKET CONTACT.

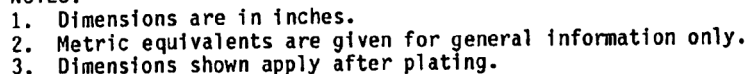


FIGURE 3. CENTER PIN CONTACT.

REQUIREMENTS:

Qualification:

Contacts shall comply with the reliability assurance provisions of MIL-STD-790 as specified in MIL-C-28840.

Design and construction:

Dimensions and configurations: See figures 1 through 3 and table I.

TABLE I. DESIGN CHARACTERISTICS.

BIN code	Color bands			Contact cavity size	Cable accommodated	Type	Class
	1st	2nd	3rd				
556	Green	Green	Blue	8	M17/176-00002	D	B

Assembly procedure: Manufacturer's recommended assembly instructions shall be shipped with unit package.

Electrical:

Low signal level contact resistance (center and intermediate contacts only): See table II.

Contact resistance: See table III.

Frequency: 0 to 20 MHz (operating frequency range).

Voltage rating: 500 volts rms maximum; working voltage at sea level, 125 volts rms maximum at 70,000 feet.

TABLE II. LOW SIGNAL LEVEL CONTACT, RESISTANCE (CENTER AND INTERMEDIATE CONTACTS ONLY).

BIN code	Cable accommodated	Maximum contact resistance (milliohms)	
		Initial	After conditioning
556	M17/176-00002	55	66

TABLE III. CONTACT RESISTANCE.

BIN code	Contact	Cable accommodated	Test current (amperes)	Maximum voltage drop (millivolts)		
				+25°C, +3°C, 0°C		+175°C, +3°C, 0°C
				Initial	After conditioning	After conditioning
556	Center	M17/176-00002	1.0	55	66	94
556	Intermediate	M17/176-00002	1.0	55	66	94
556	Outer	M17/176-00002	12.0	75	90	128

Dielectric withstanding voltage: Shall be as specified in table IV.

TABLE IV. DIELECTRIC WITHSTANDING VOLTAGE.

Contacts	Altitude	Test voltages ac rms
Center to intermediate	Sea level	1,000
Intermediate to outer	Sea level	500

Mating contact: Shall be in accordance with MIL-C-39029/105.

Mechanical:

Contact engagement and separation force (socket contacts only): The engagement depth shall be a minimum of 0.7 of the minimum socket bored depth. The test pins shall be in accordance with MS3197, except the diameters shall be as specified in table V. Provision for clearance hole on outer contact. Test pins shall be provided.

TABLE V. CONTACT ENGAGEMENT AND SEPARATION FORCE.

Test pin diameter (inch)	Minimum separation force (ounces)		Maximum engagement force (ounces)		Maximum average engagement force
	Initial	After conditioning	Initial	After conditioning	
.1090 +.0000 -.0001	NA	NA	18	22	NA
.1110 +.0001 -.0000	0.5	0.4	NA	NA	NA

Crimp tensile strength (center, intermediate, and outer contact crimp joint): See table VI.

TABLE VI. CRIMP TENSILE STRENGTH (AT AMBIENT).

BIN code	Cable accommodated	Axial load (pounds, minimum)		
		Center contact	Intermediate contact	Outer contact
556	M17/176-00002	8	8	25

Vibration: Method 2005 of MIL-STD-1344, test condition V. The following details shall apply:

- Use the vibration envelope shown on figure 4.
- Vibration: To be conducted at standard test conditions.
- Duration: Eight hours in the longitudinal direction and 8 hours in a perpendicular direction (16 hours).