

REV.  
A

SAE AS39029/60

FEDERAL SUPPLY CLASS  
5935

RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY, REMOVE GOVERNMENT JARGON, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

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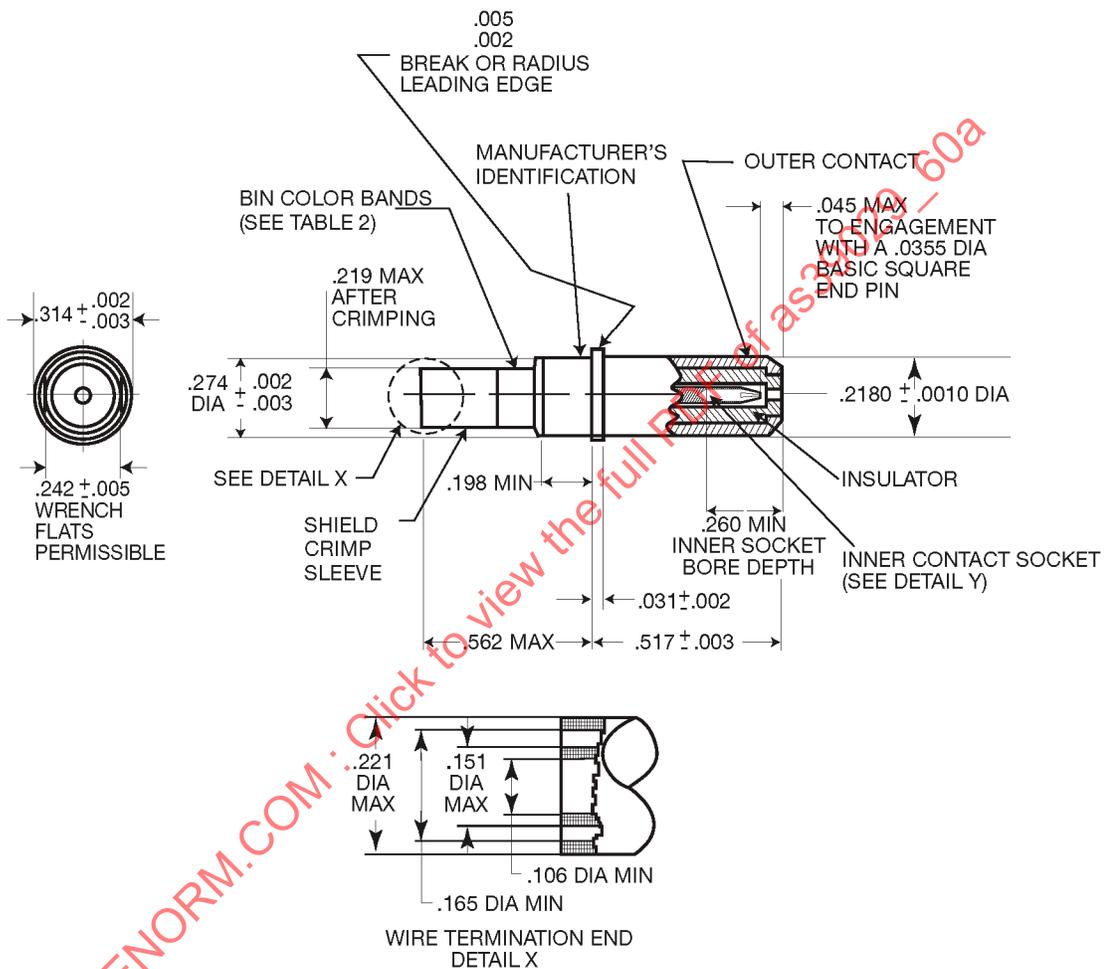


FIGURE 1 - CONNECTOR CONTACT

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CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**  
(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, SHIELDED, SIZE 8 (FOR MIL-DTL-38999 SERIES I, III, AND IV CONNECTORS)

**SAE AS39029/60**  
SHEET 1 OF 6

**REV. A**

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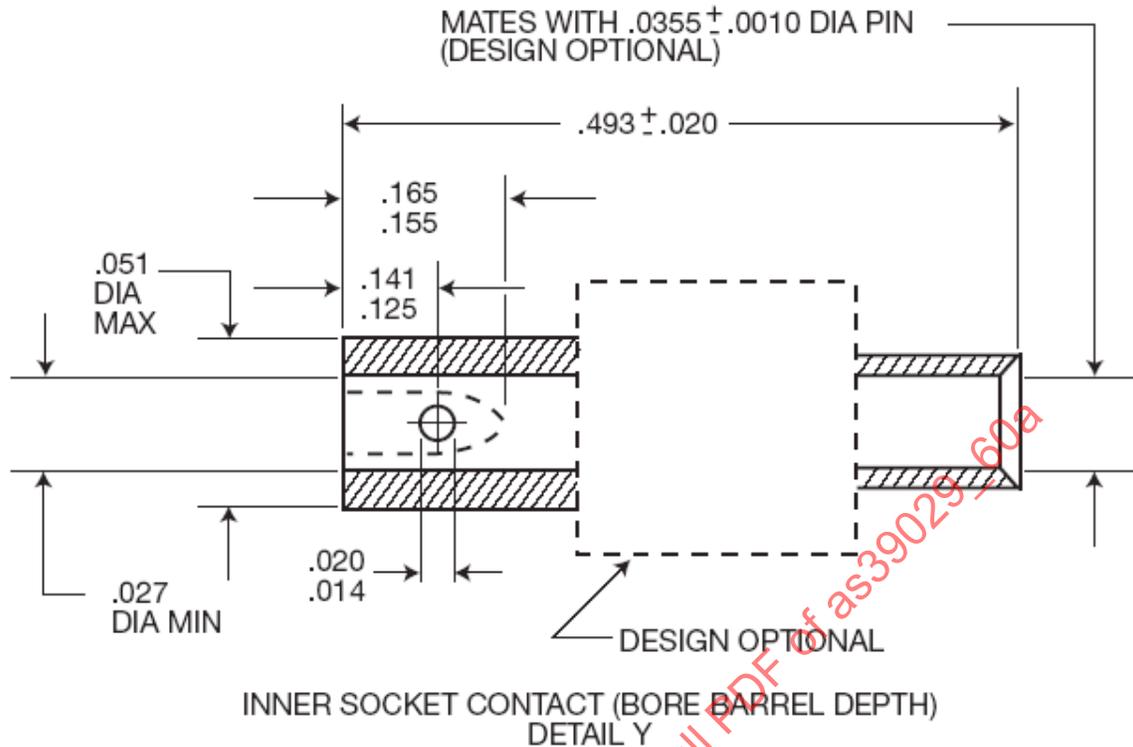


FIGURE 1 - CONNECTOR CONTACT (CONTINUED)

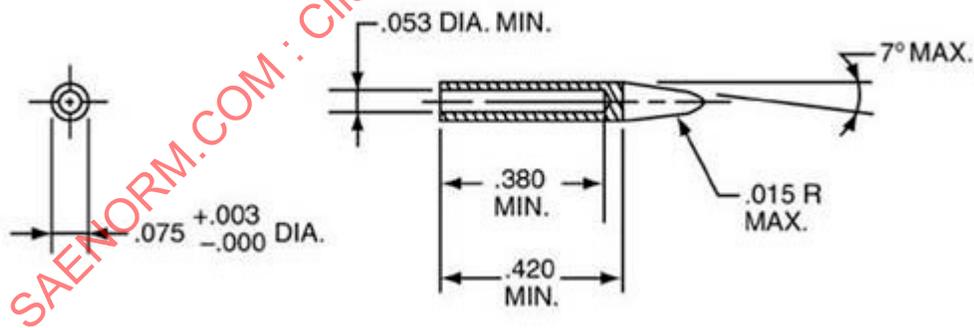


FIGURE 2 - INSULATOR EXPANDER TOOL

<p>SAE Aerospace An SAE International Group</p>	<b>AEROSPACE STANDARD</b>	<b>SAE AS39029/60</b> SHEET 2 OF 6	<b>REV.</b> <b>A</b>
	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, SHIELDED, SIZE 8 (FOR MIL-DTL-38999 SERIES I, III, AND IV CONNECTORS)		

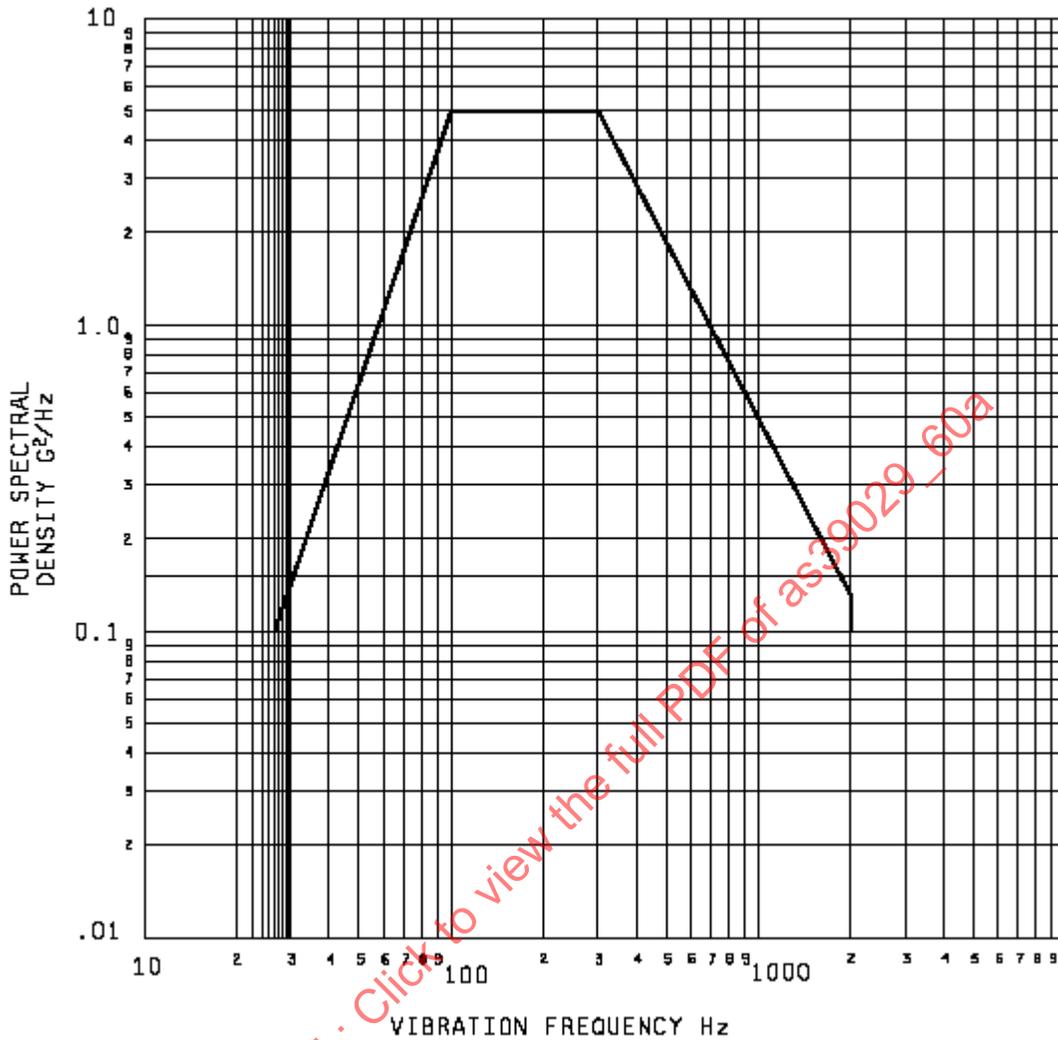


FIGURE 3 - VIBRATION ENVELOPE

TABLE 1 - DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CONTACT CAVITY SIZE	CABLES ACCOMMODATED	TYPE	CLASS
	1ST	2ND	3RD				
367	ORANGE	BLUE	VIOLET	8	M17/095-RG180	D	B

TABLE 2 - TOOLS

BIN CODE	INSTALLING TOOL	REMOVAL TOOL	INSULATOR EXPANDER TOOL (CRIMP ONLY) <sup>1/</sup>
367	M81969/8-13	M81969/14-12 M81969/8-14	SEE MANUFACTURER'S ASSEMBLY INSTRUCTIONS

<sup>1/</sup> INSULATOR EXPANDER TOOL KIT MUST BE USED TO ASSEMBLE REAR INSULATOR OVER CONTACT WHEN THE INNER CONTACT IS INSTALLED BY CRIMPING MEANS ALONE.

TABLE 3 - TOOLS (INNER CONTACT AND SHIELD CRIMP SLEEVE TOOLS)

BIN CODE	INNER CONTACT TOOLING 1/		SHIELD CRIMP SLEEVE TOOLING	
	BASIC CRIMPING TOOL	CONTACT POSITIONER	BASIC CRIMPING TOOL	DIE PART OR IDENTIFYING NO.
367	M22520/2-01	M22520/2-31	M22520/5-01 M22520/10-01	M22520/5-05 DIE CLOSURE B M22520/10-07 DIE CLOSURE B

1/ MAY BE SOLDERED IN ACCORDANCE WITH MANUFACTURER'S ASSEMBLY INSTRUCTIONS.

TABLE 4 - LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY)

BIN CODE	CABLE ACCOMMODATED	MAXIMUM CONTACT RESISTANCE (MILLIOHMS)	
		INITIAL	AFTER CONDITIONING
367	M17/095-RG180	120	144

TABLE 5 - CONTACT RESISTANCE

BIN CODE	CONTACT	CABLE ACCOMMODATED	TEST CURRENT (AMPERES)	MAXIMUM VOLTAGE DROP (MILLIVOLTS)		
				25°C +3°C, -0°C		200°C +3°C, -0°C
				MAX	AFTER CONDITIONING	
					MAX	MAX
367	INNER OUTER	M17/095-RG180	1 12	120 60	144 72	204 102

TABLE 6 - CONTACT ENGAGEMENT AND SEPARATION FORCES

TEST PIN DIAMETER (INCHES)	INITIAL			AFTER CONDITIONING		
	MINIMUM SEPARATION FORCE (OZ)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OZ)	MAXIMUM ENGAGEMENT FORCE (OZ)	MINIMUM SEPARATION FORCE (OZ)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OZ)	MAXIMUM ENGAGEMENT FORCE (OZ)
.0365 +.0002 -.0000	N/A	N/A	18	N/A	N/A	22
.0345 +.0000 -.0002	0.5	N/A	N/A	0.4	N/A	N/A

TABLE 7 - CRIMP TENSILE STRENGTH

BIN CODE	CABLE ACCOMMODATED	AXIAL LOAD (POUNDS MINIMUM)	
		INNER CONTACT	OUTER CONTACT
367	M17/095-RG180	3.5	25