

REV.  
D

AS39029™/60

FEDERAL SUPPLY CLASS  
5935

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO ADD DIMENSION .517 TO FIGURE 1 AND TABLE 1.

NOTICE

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

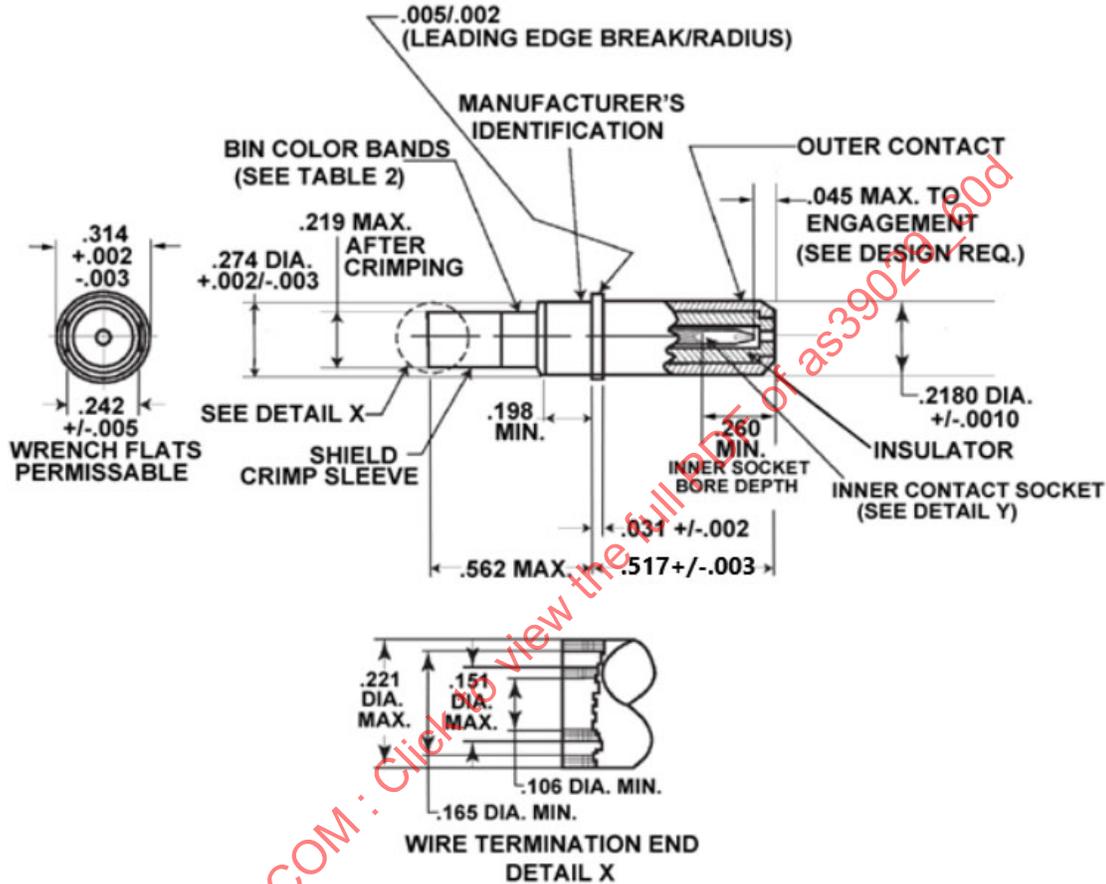
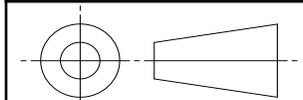


FIGURE 1 - CONNECTOR CONTACT

For more information on this standard, visit  
<https://www.sae.org/standards/content/AS39029/60D>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



**AEROSPACE STANDARD**

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

**AS39029™/60**  
SHEET 1 OF 6

**REV.  
D**

SAE Executive Standards Committee 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.

ISSUED 2000-07 REAFFIRMED 2021-07 REVISED 2023-11

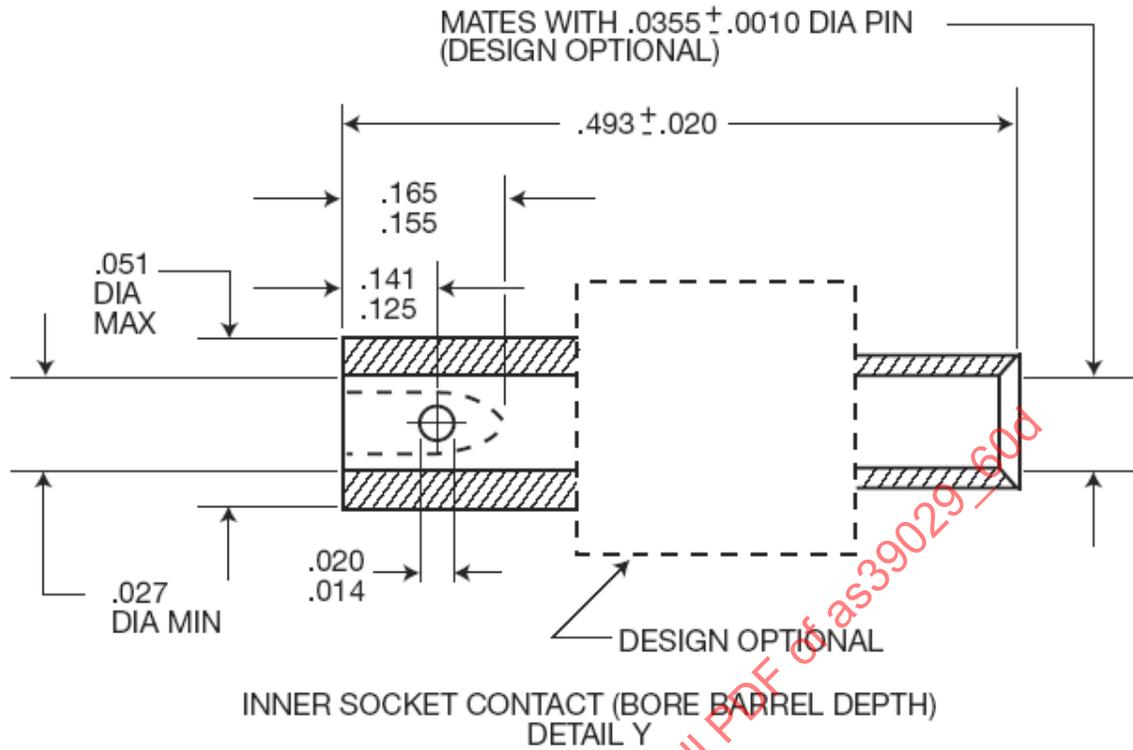


FIGURE 1 - CONNECTOR CONTACT (CONTINUED)

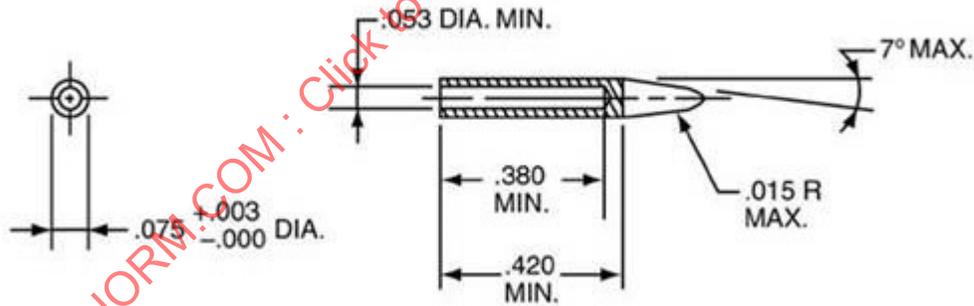


FIGURE 2 - INSULATOR EXPANDER TOOL

	<b>AEROSPACE STANDARD</b>	<b>AS39029™/60</b> SHEET 2 OF 6	<b>REV.</b> <b>D</b>
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, SHIELDED, SIZE 8 (FOR MIL-DTL-38999 SERIES I, III, AND IV CONNECTORS)		

TABLE 1 - FIGURE 1 AND 2 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.001	0.03	.0355	0.90	.165	4.19
.002	0.05	.053	1.35	.221	5.61
.003	0.08	.075	1.91	.242	6.15
.005	0.13	.106	2.69	.260	6.60
.014	0.36	.125	3.18	.274	6.96
.015	0.38	.141	3.58	.314	7.98
.020	0.51	.151	3.84	.380	9.65
.027	0.69	.155	3.94	.420	10.67
.031	0.79	.198	5.03	.493	12.52
.045	1.14	.2180	5.54	.517	13.13
.051	1.30	.219	5.56	.562	14.27

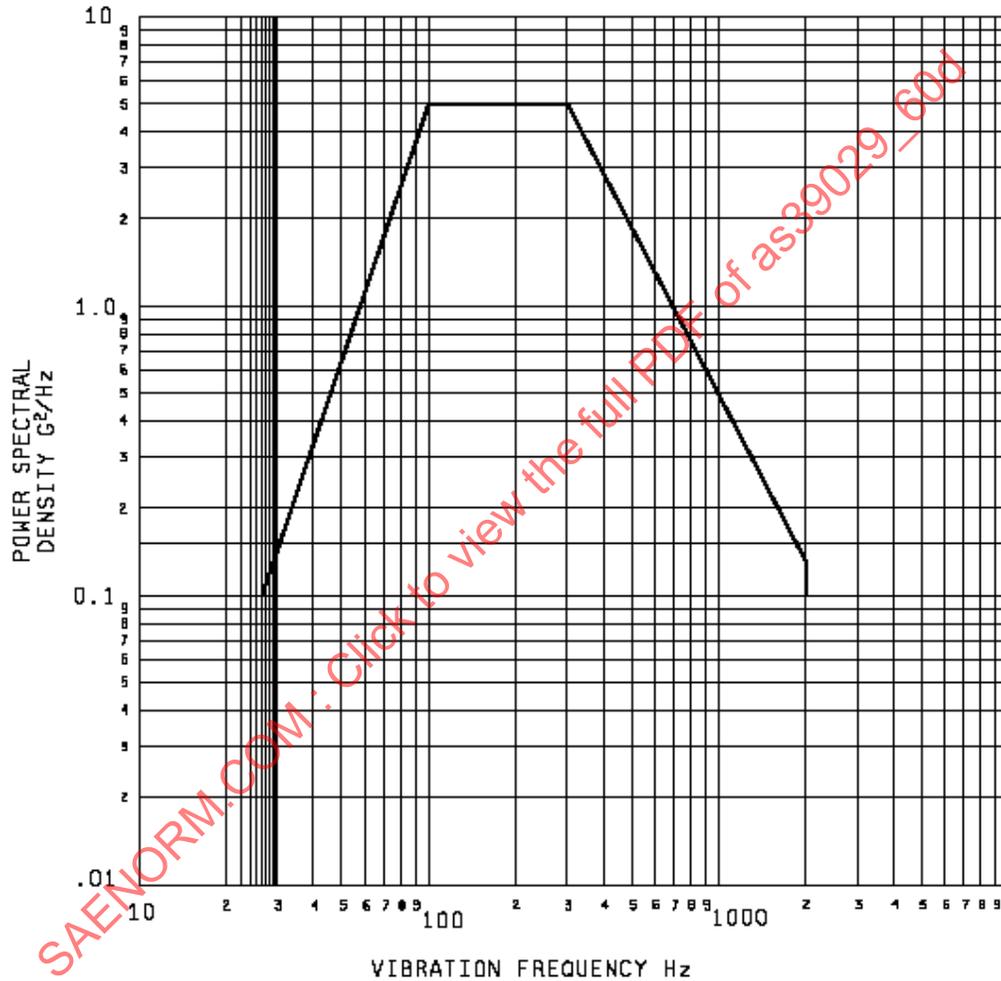


FIGURE 3 - VIBRATION ENVELOPE

TABLE 2 - DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CONTACT CAVITY SIZE	CABLES ACCOMMODATED	TYPE	CLASS
	1ST	2ND	3RD				
367	ORANGE	BLUE	VIOLET	8	M17/95-RG180	D	B



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

**AS39029™/60**  
 SHEET 3 OF 6

**REV. D**

**TABLE 3 - TOOLS**

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

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

**TABLE 4 - 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 5 - LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY)**

BIN CODE	CABLE ACCOMMODATED	MAXIMUM CONTACT RESISTANCE (MILLIOHMS)	
		INITIAL	AFTER CONDITIONING
367	M17/95-RG180	120	144

**TABLE 6 - 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	
367	INNER OUTER	M17/95-RG180	1 12	120 60	144 72	204 102

**TABLE 7 - CONTACT ENGAGEMENT AND SEPARATION FORCES**

TEST PIN DIAMETER (INCHES)	INITIAL			AFTER CONDITIONING		
	MINIMUM SEPARATION FORCE (OUNCES)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES)	MAXIMUM ENGAGEMENT FORCE (OUNCES)	MINIMUM SEPARATION FORCE (OUNCES)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES)	MAXIMUM ENGAGEMENT FORCE (OUNCES)
.0365 + .0002 -.0000	N/A	N/A	18	N/A	N/A	22
.0345 + .0000 -.0002	.5	N/A	N/A	.4	N/A	N/A