

REV. B

SAE AS39029/44

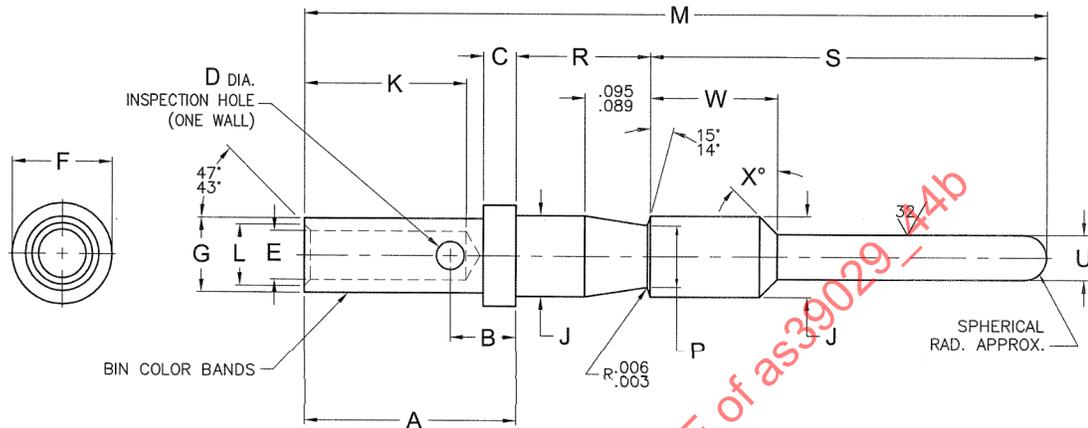
FEDERAL SUPPLY CLASS  
5999

RATIONALE

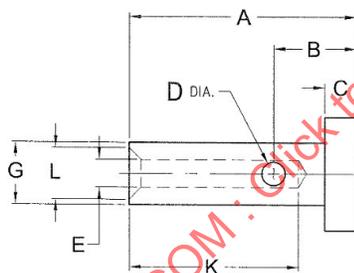
REVISE TO INCORPORATE THE OUTSTANDING AMENDMENT AS REQUIRED BY SAE GUIDELINES AND UPDATE  
FORMAT, FIGURES AND TABLES.

NOTICE

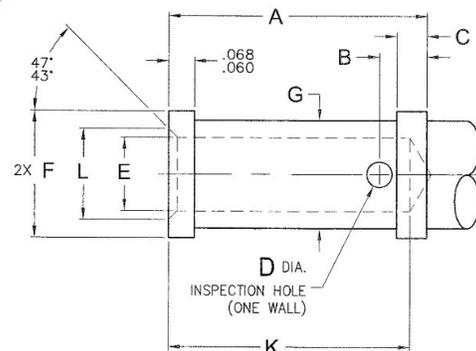
THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS  
SPECIFICATION SHEET AND THE LATEST ISSUE OF SAE AS39029.



PIN INTERFACE DESIGN FOR ALL BIN CODES  
WIRE BARREL DESIGN FOR BIN CODES 288 THRU 290 (SIZES 16 AND 12 CONTACTS)



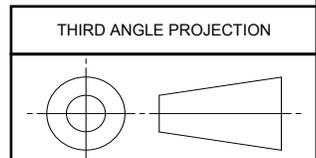
WIRE BARREL DESIGN  
BIN CODE 287 (16-22)



WIRE BARREL DESIGN  
BIN CODES 291-293 (SIZES 8, 4, 0)

FIGURE 1 - PIN CONTACT

SAE values your input. To provide feedback  
on this Technical Report, please visit  
<http://www.sae.org/technical/standards/AS39029/44B>



CUSTODIAN: SAE AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN,  
CRIMP REMOVABLE (FOR AS50151 SERIES  
AS34001 CONNECTORS)

**SAE AS39029/44**  
SHEET 1 OF 4

**REV. B**

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ISSUED 2001-03 REVISED 2010-12

TABLE 1 - CONTACT D SIZE DIMENSIONS

BIN Code	E Dia	F Dia	J Dia	M Ref	P Dia	R	S	U Dia	W	X*	A	B	C	D Dia	G Dia	K	L
287	0.0355	0.148 (3.76)	0.113	1.159	0.087		0.694 0.684	0.0635 0.0615			0.285	0.106	0.042	0.032	0.078	0.216	0.067
	0.0335				0.083						0.280	0.100	0.036	0.026	0.076	0.206	0.061
288	0.068	0.133 (3.38)	0.110	1.172 (29.77)										0.042 0.036	0.105 0.101	0.281 0.250	0.090 0.080
289	0.066																
290	0.102	0.313 (7.95)	0.252 0.249	1.579 (40.11)	0.225	0.189 0.185	0.882 0.872	0.143 0.141						0.048 0.044	0.269 0.263	0.534 0.480	0.230 0.220
	0.098				0.221												
291	0.184	0.419 (10.64)	0.336 0.333		0.310 0.307									0.066 0.060	0.568 0.558	0.690 0.636	0.542 0.532
	0.179																
292	0.286	0.611 (15.52)	0.518 0.515	1.733 (44.02)	0.492 0.489												
	0.279																
293	0.458	0.601 (15.27)															
	0.451																

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 <sup>ST</sup>	2 <sup>ND</sup>	3 <sup>RD</sup>				
287	RED	GRAY	VIOLET	16	22	A	B
288	RED	GRAY	GRAY	16	16		
289	RED	GRAY	WHITE	12	16		
290	RED	WHITE	BLACK	12	12		
291	RED	WHITE	BROWN	8	8		
292	RED	WHITE	RED	4	4		
293	RED	WHITE	ORANGE	0	0		

1/ BIN CODE 289 SHALL MEET ALL APPLICABLE TEST REQUIREMENTS FOR SIZE 12-14

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	DIE SET	LOCATOR	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
287 1/	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-09	M81969/19-01
288	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-04	M81969/19-01
289	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-04	M81969/19-02
290	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-05	M81969/19-02
291	M22520/23-01	M22520/23-02	M22520/23-09	---	M81969/17-06	M81969/19-03
292	M22520/23-01	M22520/23-04	M22520/23-11	---	M81969/17-07	M81969/19-04
293	M22520/23-01	M22520/23-05	M22520/23-13	---	M81969/17-08	M81969/19-05

1/ USE SELECTOR NUMBER 3, 2, 1 FOR WIRE SIZE 22, 24, 26 RESPECTIVELY

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/44-287	287	MS90453-16-22
M39029/44-288	288	MS90453-16-16
M39029/44-289	289	MS90453-12-16
M39029/44-290	290	MS90453-12-12
M39029/44-291	291	MS90453-8-8
M39029/44-292	292	MS90453-4-4
M39029/44-293	293	MS90453-0-0

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS39029.

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2. DIMENSIONS ARE IN INCHES AND SHOWN AFTER PLATING. UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029. ALL DIMENSIONS IN PARENTHESES ARE METRIC EQUIVALENTS AND PROVIDED FOR GENERAL INFORMATION ONLY (SEE AS39029 SECTION 6).

2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO WIRE/CABLE AND THE INSTALLING/REMOVAL FROM THE CONNECTOR SHALL BE IN ACCORDANCE WITH TABLE 3.

3. PART NUMBERS:

CONTACT PART NUMBERS SHALL BE IN ACCORDANCE WITH TABLE 4. SUPERSEDED PART NUMBERS ARE AS SPECIFIED.

4. MATERIALS:

MATERIALS SHALL BE IN ACCORDANCE WITH AS39029.

 <p>SAE Aerospace An SAE International Group</p>	<b>AEROSPACE STANDARD</b>	 <p><b>AS39029/44</b> SHEET 3 OF 4</p>	<p><b>REV.</b> <b>B</b></p>
	<p>(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR AS50151 SERIES AS34001 CONNECTORS)</p>		