

REV.  
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SAE AS39029/4

FEDERAL SUPPLY CLASS  
5999

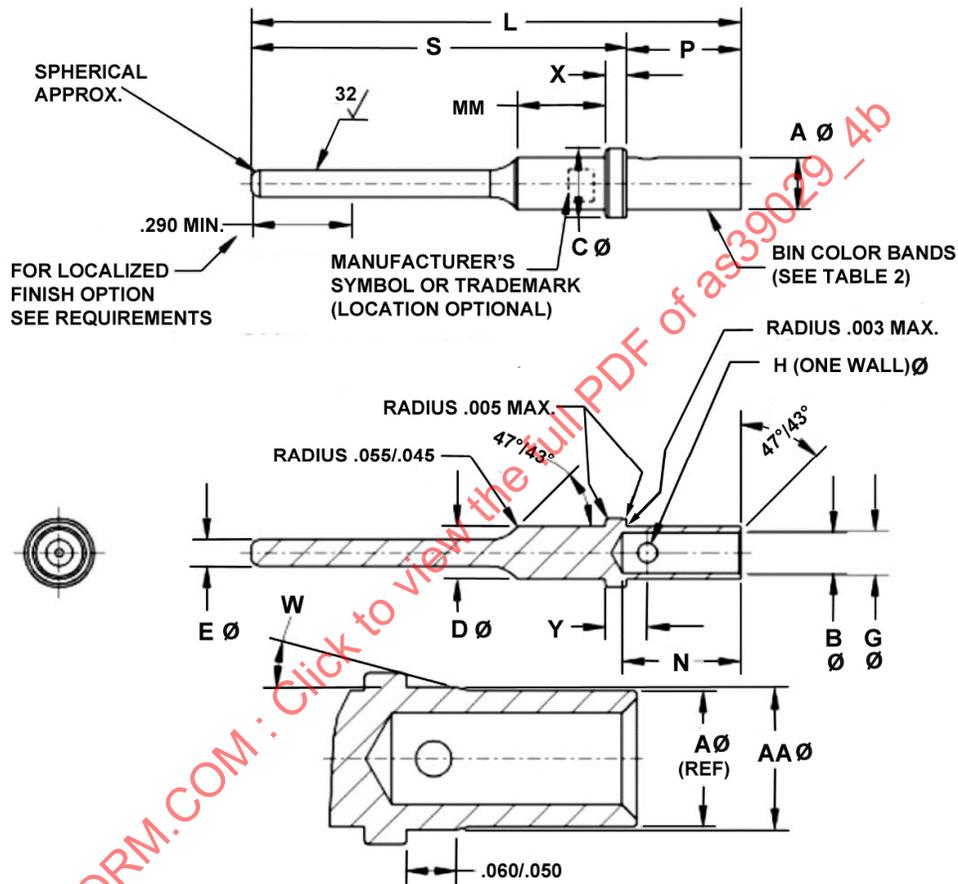
RATIONALE

REVISE TO IMPROVE DRAWING/DIMENSION QUALITY, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

NOTICE

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

BIN CODES 110 AND 111

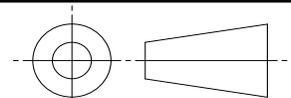


BIN CODES 112, 113 AND 114

FIGURE 1 - AS39029/4 PIN CONTACT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/4B>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029

**SAE Aerospace**  
An SAE International Group

**AEROSPACE STANDARD**

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-26482 SERIES 2, AS81703 SERIES 3, MIL-DTL-83723 SERIES I AND III, AND MIL-DTL-83733 CONNECTORS)

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

REV.  
B

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ISSUED 2001-03 REVISED 2012-08

TABLE 1 - FIGURE 1 DIMENSIONS

BIN CODE	A DIA.	B DIA.	C DIA.	D DIA.	E DIA.	G DIA.	H DIA.	L MAX. (REF)	N	
110	.078 (1.98)	.050 (1.27)	.103 (2.62)	.078 (1.98)	.041 (1.04)	.066 (1.68)	.032 (0.81)	.720 (18.29)	.187 (4.75)	
	.076 (1.93)	.048 (1.22)	.100 (2.54)	.076 (1.93)	.039 (0.99)	.056 (1.42)	.026 (0.66)		.155 (3.94)	
	.103 (2.62)	.068 (1.73)	.133 (3.38)	.103 (2.62)	.0635 (1.613)	.092 (2.34)				
112	.101 (2.57)	.066 (1.68)	.130 (3.30)	.101 (2.57)	.0615 (1.562)	.078 (1.98)		.821 (20.85)	.284 (7.21) .250 (6.35)	
	.078 (1.98)	.050 (1.27)	.133 (3.38)	.103 (2.62)	.0635 (1.613)	.066 (1.68)				
113	.076 (1.93)	.048 (1.22)	.130 (3.30)	.101 (2.57)	.0615 (1.562)	.056 (1.42)	.042 (1.07)			
	.151 (3.84)	.102 (2.59)	.190 (4.83)	.151 (3.84)	.095 (2.41)	.136 (3.45)	.036 (0.91)			
	.148 (3.76)	.098 (2.49)	.187 (4.75)	.148 (3.76)	.093 (2.36)	.116 (2.95)				
114	.103 (2.62)	.068 (1.73)	.190 (4.83)	.151 (3.84)	.095 (2.41)	.092 (2.34)				
	.101 (2.57)	.066 (1.68)	.187 (4.75)	.148 (3.76)	.093 (2.36)	.078 (1.98)				

TABLE 1 - FIGURE 1 DIMENSIONS (CONTINUED)

BIN CODE	P	S	W°	X	Y	AA DIA.	MM	WEIGHT (LB) (NORMAL)
110	.171 (4.34)	.549 (13.94)	N/A	.033 (0.84)	.068 (1.73)	N/A	.130 (3.30)	.0007
	.160 (4.06)	.543 (13.79)		.029 (0.74)	.053 (1.35)		.125 (3.18)	
111			N/A			N/A	.130 (3.30) .125 (3.18)	.0013
112	.257 (6.53)	.564 (14.33)	46°	.048 (1.22)	.085 (2.16)	.103 (2.62)	.130 (3.30)	N/A
			44°			.101 (2.57)	.125 (3.18)	
113	.246 (6.25)	.558 (14.17)	16°	.044 (1.12)	.068 (1.73)	.158 (4.01)	.120 (3.05)	.0028
			14°			.155 (3.94)	.115 (2.92)	
114			46°			.158 (4.01)	.120 (3.05)	N/A
			44°			.155 (3.94)	.115 (2.92)	

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
110	BROWN	BROWN	BLACK	20	20	A	B
111	BROWN	BROWN	BROWN	16	16		
112	BROWN	BROWN	RED	16	20		
113	BROWN	BROWN	ORANGE	12	12		
114	BROWN	BROWN	YELLOW	12	16		

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
110	M22520/1-01 OR M22520/2-01 OR M22520/7-01	M22520/1-02 RED OR M22520/2-02 OR M22520/7-02	M81969/14-11 OR M81969/8-205	M81969/14-11 OR M81969/8-206	M81969/30-05
111	M22520/1-01 OR M22520/7-01	M22520/1-02 BLUE OR M22520/7-03	M81969/14-03 OR M81969/8-207	M81969/14-03 OR M81969/8-208	M81969/30-06
112	M22520/1-01 OR M22520/7-01	M22520/1-02 BLUE OR M22520/7-03	M81969/14-03 OR M81969/8-207	M81969/14-03 OR M81969/8-208	M81969/30-06
113	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04 OR M81969/8-209	M81969/14-04 OR M81969/8-210	M81969/30-06
114	M22520/1-01	M22520/1-02 YELLOW	M81969/14-04 OR M81969/8-209	M81969/14-04 OR M81969/8-210	M81969/30-07

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/4-110	110	M39029/4-20-20 M39029/4-001 M83723/33B20
M39029/4-111	111	M39029/4-16-16 M39029/4-002 M83723/33B16
M39029/4-112	112	M39029/4-16-20 M39029/4-003
M39029/4-113	113	M39029/4-12-12 M39029/4-004 M83723/33B12
M39029/4-114	114	M39029/4-12-16 M39029/4-005