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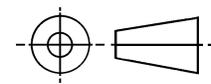
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THIRD ANGLE PROJECTION



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PREPARED BY SAE SUBCOMMITTEE AE-8C1



**AEROSPACE STANDARD**

CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE  
(FOR MIL-C-26482 SERIES 2, MIL-C-81703 SERIES 3, MIL-C-83723  
SERIES I AND III, AND MIL-C-83733 CONNECTORS)

**AS39029/4**  
SHEET 1 OF 5

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

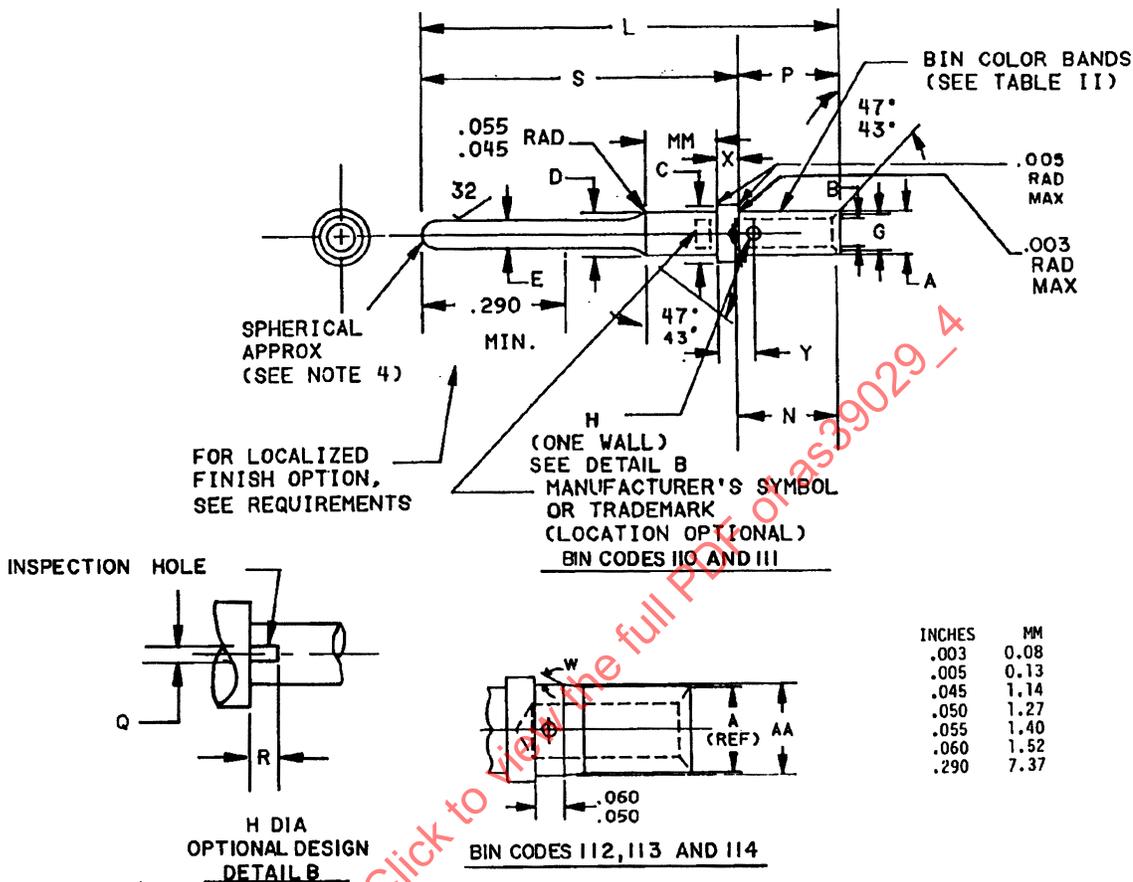


FIGURE 1. PIN CONTACT.

TABLE I. Dimensions.

BIN code	A Dia	B Dia	C Dia	D Dia	E Dia	G Dia	H Dia	L Max (Ref)	N	P	S	M°	X	Y	AA Dia	MM	Weight (Lbs) (Max)	Q	R
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)	.171 (4.34)	.549 (13.94)	--	.033 (0.84)	.068 (1.73)	---	.130 (3.30)	.0007	.032 (.026)	.051 (.026)
	.076 (1.93)	.048 (1.22)	.100 (2.54)	.076 (1.93)	.039 (0.99)	.056 (1.42)	.026 (0.66)		.155 (3.94)	.160 (4.06)	.543 (13.79)		.029 (0.74)	.053 (1.35)		.125 (3.18)			
111	.103 (2.62)	.068 (1.73)	.133 (3.38)	.103 (2.62)	.0635 (1.613)	.092 (2.34)	.042 (1.07)	.821 (20.85)	.284 (7.21)	.257 (6.53)	.564 (14.33)	--	.048 (1.22)	.085 (2.16)	---	.130 (3.30)	.0013	---	---
	.101 (2.57)	.066 (1.68)	.130 (3.30)	.101 (2.57)	.0615 (1.562)	.078 (1.98)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.558 (14.17)		.044 (1.12)	.068 (1.73)		.125 (3.18)			
112	.078 (1.98)	.050 (1.27)	.133 (3.38)	.103 (2.62)	.0635 (1.613)	.066 (1.68)	.042 (1.07)	.821 (20.85)	.284 (7.21)	.257 (6.53)	.564 (14.33)	46	.048 (1.22)	.085 (2.16)	.103 (2.62)	.130 (3.30)	---	---	---
	.076 (1.93)	.048 (1.22)	.130 (3.30)	.101 (2.57)	.0615 (1.562)	.056 (1.42)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.558 (14.17)	44	.044 (1.12)	.068 (1.73)	.101 (2.57)	.125 (3.18)			
113	.151 (3.84)	.102 (2.59)	.190 (4.83)	.151 (3.84)	.095 (2.41)	.136 (3.45)	.042 (1.07)	.821 (20.85)	.284 (7.21)	.257 (6.53)	.564 (14.33)	16	.048 (1.22)	.085 (2.16)	.158 (4.01)	.120 (3.05)	.0028	---	---
	.148 (3.76)	.098 (2.49)	.187 (4.75)	.148 (3.76)	.093 (2.36)	.116 (2.95)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.558 (14.17)	14	.044 (1.12)	.068 (1.73)	.155 (3.94)	.115 (2.92)			
114	.103 (2.62)	.068 (1.73)	.190 (4.83)	.151 (3.84)	.095 (2.41)	.092 (2.34)	.042 (1.07)	.821 (20.85)	.284 (7.21)	.257 (6.53)	.564 (14.33)	46	.048 (1.22)	.085 (2.16)	.158 (4.01)	.120 (3.05)	---	---	---
	.101 (2.57)	.066 (1.68)	.187 (4.75)	.148 (3.76)	.093 (2.36)	.078 (1.98)	.036 (0.91)		.250 (6.35)	.246 (6.25)	.558 (14.17)	44	.044 (1.12)	.068 (1.73)	.155 (3.94)	.115 (2.92)			

FIGURE 1. PIN CONTACT (CONTINUED).

## NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Metric equivalents are in parentheses.
- Spherical end dimension shall conform to MIL-C-39029.

TABLE II. 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 III. TOOLS.

BIN code	Basic crimping tool	Positioner	Installing tool	Removal tool	
				wired contact	Unwired contact
110	M22520/1-01, M22520/2-01 or M22520/7-01	M22520/1-02 Red, M22520/2-02 or M22520/7-02	M81969/14-02	M89169/14-02	M81969/30-05
111	M22520/1-01 or M22520/7-01	M22520/1-02 Blue or M22520/7-03	M81969/14-03	M89169/14-03	M89169/30-06
112	M22520/1-01 or M22520/7-01	M22520/1-02 Blue or M22520/7-03	M81969/14-02	M81969/14-02	M81969/30-05
113	M22520/1-01	M22520/1-02 Yellow	M81969/14-04	M81969/14-04	M81969/30-07
114	M22520/1-01	M22520/1-02 Yellow	M81969/14-03	M81969/14-03	M81969/30-06

REQUIREMENTS:

Dimensions, design characteristics and configuration: See figure and tables I and II.

Tools: See table III.

Mating contact: MIL-C-39029/5.

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition D, except the pulse shall be an approximate half-sine wave of 300 G ±15 percent magnitude with a duration of 3 milliseconds ±1. One shock shall be exerted in each of three mutually perpendicular directions.

Localized finish option: Applicable. Contacts shall be finished as specified in the localized finish requirements of MIL-C-39029. The 0.290 inch minimum length requirement in the figure is the "E" length of the area "Y" specified in MIL-C-39029. Nickel underplate is required.

Porosity test, localized finish: If localized finish is used, porosity shall be tested in accordance with method 1017 of MIL-STD-1344. Immersion in nitric acid is not applicable.

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