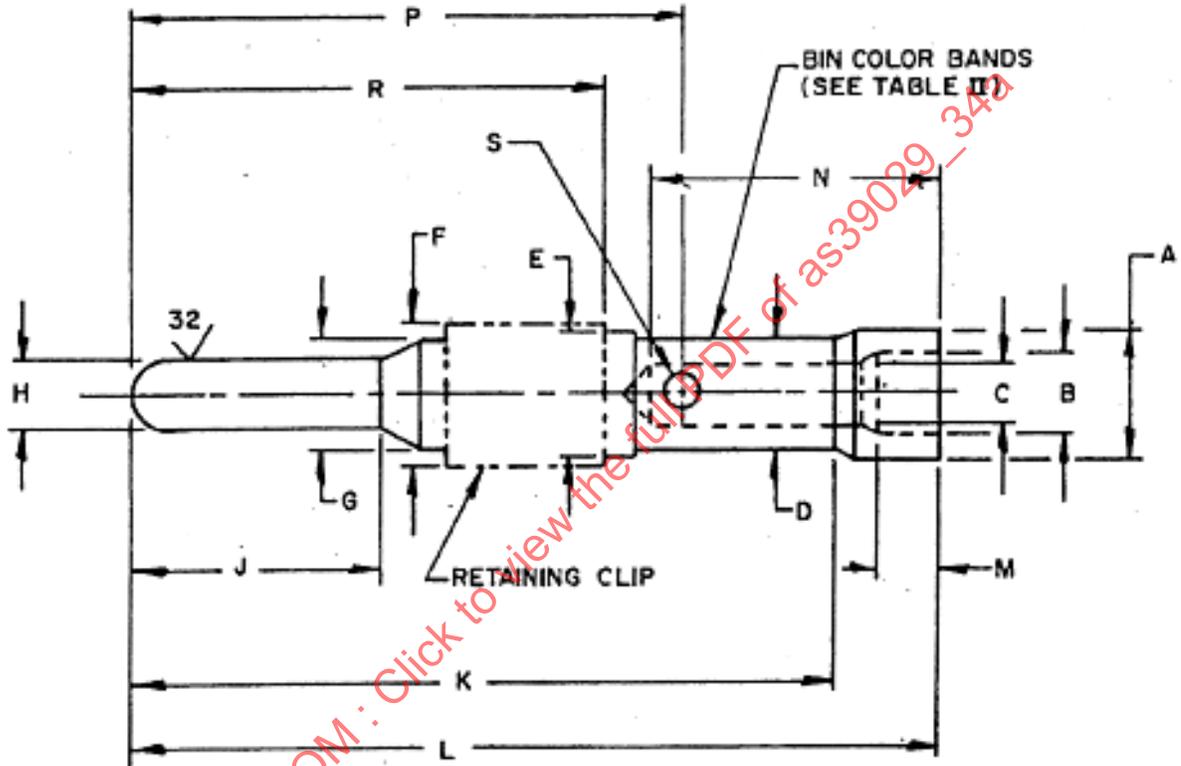


RATIONALE

REVISE TO INCLUDE COMMENTS RECEIVED BY THE GOVERNMENT AND INDUSTRY SINCE 1988, INCORPORATES VARIOUS AMENDMENTS, REMOVE GOVERNMENT JARGON AS A RESULT OF THE WORD-FOR-WORD TRANSFERENCE OF AS39029 TO SAE, UPDATE SPECIFICATION REFERENCES, ALIGN SPECIFICATIONS WITH SAE GUIDELINES AS NEEDED, AND REVIEW SPECIFICATIONS FOR KNOWN TECHNICAL PROBLEMS.

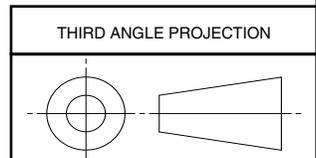
NOTICE

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS



SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS39029.

FIGURE 1- AS39029/34 PIN CONTACT



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 MIL-DTL-28748/3  
AND MIL-C-287848/13 CONNECTORS)

**SAE AS39029/34A**  
SHEET 1 OF 4

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ISSUED 2000-07 REAFFIRMED 2007-06 REVISED 2008-03

TABLE 1 - CONTACT DIMENSIONS

BIN code	A Dia	B Dia	C Dia	D Dia	E Dia	F Dia	G Dia	H Dia	J	K	L	M	N	P	R	S $\frac{1}{2}$ Dia
271	.121 (3.07)	.070 (1.78)	.048 (1.22)	.079 (2.01)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.041 (1.04)	.319 (8.10)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.067 (1.70)	.044 (1.12)	.076 (1.93)	Max	Max	.099 (2.51)	.039 (.99)	.299 (7.59)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
	.121 (3.07)	.070 (1.78)	.048 (1.22)	.079 (2.01)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.0635 (1.613)	.319 (8.10)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
272	.119 (3.02)	.067 (1.70)	.044 (1.12)	.076 (1.93)	Max	Max	.099 (2.51)	.0615 (1.562)	.299 (7.59)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
	.121 (3.07)	.070 (1.78)	.048 (1.22)	.079 (2.01)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.0635 (1.613)	.319 (8.10)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.067 (1.70)	.044 (1.12)	.076 (1.93)	Max	Max	.099 (2.51)	.0615 (1.562)	.299 (7.59)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
273	.121 (3.07)	.095 (2.41)	.070 (1.78)	.112 (2.84)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.0635 (1.613)	.319 (8.10)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
	.119 (3.02)	.092 (2.34)	.066 (1.68)	.109 (2.77)	Max	Max	.099 (2.51)	.0615 (1.562)	.299 (7.59)	.675 (17.14)	.757 (19.23)	.055 (1.40)	.245 (6.22)	.525 (13.34)	.490 (12.45)	.028 (.71)
	.121 (3.07)	.095 (2.41)	.070 (1.78)	.112 (2.84)	.119 (3.02)	.135 (3.43)	.101 (2.57)	.0635 (1.613)	.319 (8.10)	.695 (17.65)	.771 (19.58)	.075 (1.90)	.265 (6.73)	.545 (13.84)	.510 (12.95)	.034 (.86)
440	.077 (1.96)	.057 (1.45)	.037 (.94)	.070 (1.78)	.077 (1.96)	.078 (1.98)	.061 (1.55)	.031 (.79)	.175 (4.44)	.587 (14.91)	.625 (15.88)	.045 (1.14)	.145 (3.68)	.510 (12.95)	.450 (11.43)	.023 (.58)
	.074 (1.88)	.054 (1.37)	.034 (.86)	.067 (1.70)	.074 (1.88)	Max	.058 (1.47)	.029 (.74)	.155 (3.94)	.567 (14.40)	.605 (15.37)	.025 (.64)	.125 (3.18)	.490 (12.45)	.430 (10.92)	.017 (.43)
	.077 (1.96)	.057 (1.45)	.037 (.94)	.070 (1.78)	.077 (1.96)	.078 (1.98)	.061 (1.55)	.031 (.79)	.175 (4.44)	.587 (14.91)	.625 (15.88)	.045 (1.14)	.145 (3.68)	.510 (12.95)	.450 (11.43)	.023 (.58)

$\frac{1}{2}$  Hole - one wall locate on axial  $C_L$  within  $\pm .008$  (.20 mm).

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TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN code	Color bands			Mating end size	Wire barrel size	Type	Class
	1st	2nd	3rd				
271	Red	Violet	Brown	20	20	A	A
272	Red	Violet	Red	16	20		
273	Red	Violet	Orange	16	16		
440	Yellow	Yellow	Black	22	22		

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
271	M22520/1-01	M22520/1-03 RED	M81969/18-01	M81969/20-01
272	M22520/1-01	M22520/1-03 BLUE	M81969/18-01	M81969/20-01
273	M22520/1-01	M22520/1-03 BLUE	M81969/18-01	M81969/20-01
440	M22520/2-01	K187 1/ OR 64093 2/ OR EQUIVALENT	M81969/18-02	M81969/20-02

1/ DANIEL MANUFACTURING CORPORATION PART NUMBER

2/ ASTRO TOOL CORPORATION PART NUMBER

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/34-271	271	MS17803-20-20
M39029/34-272	272	MS17803-16-20
M39029/34-273	273	MS17803-16-16
M39029/34-440	440	M39029/34-22-22

## DETAIL SPECIFICATION REQUIREMENTS:

## 1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2. WALL THICKNESS OF ANY PART OF THE CONTACT SHALL NOT BE LESS THAN 0.010 (0.25 MM). 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.