

REV.
B

SAE AS39029/34

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.

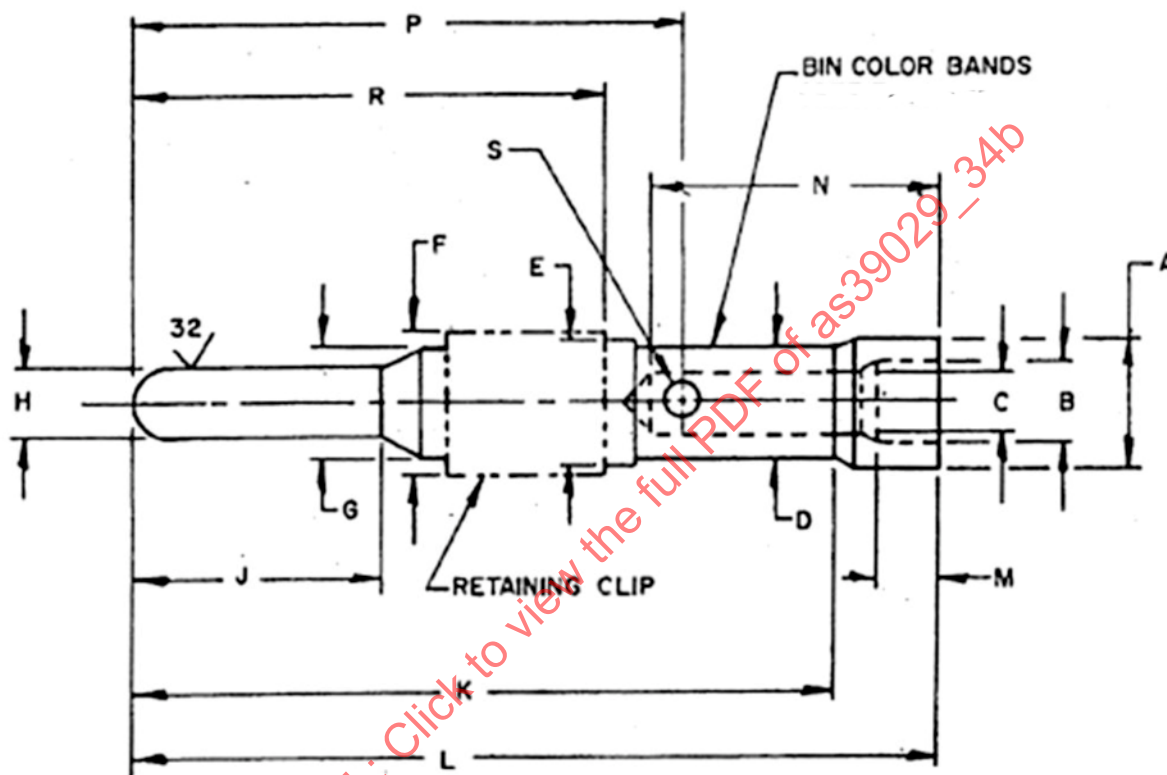
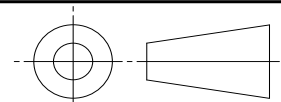


FIGURE 1- AS39029/34 PIN CONTACT

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/34B>

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

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TABLE 1A - CONTACT DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	D DIA	E DIA	F DIA	G DIA	H DIA
271	.121 .119	.070 .067	.048 .044	.079 .076	.119 MAX	.135 MAX	.101 .099	.041 .039
272								.0635 .0615
273								
440	.077 .074	.057 .054	.037 .034	.070 .067	.077 .074	.078 MAX	.061 .058	.031 .029

TABLE 1B – CONTACT DIMENSIONS (CONTINUED)

BIN CODE	J	K	L	M	N	P	R	S DIA <u>1/</u>
271	.319 .299	.695 .675	.771 .757	.075 .055	.265 .245	.545 .525	.510 .490	.034 .028
272								
273								
440	.175 .155	.587 .567	.625 .605	.045 .025	.145 .125	.510 .490	.450 .430	.023 .017

1/ HOLE – ONE WALL LOCATED ON C AXIS WITHIN $\pm .008$ INCHES.

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
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 640092 2/ OR EQUIVALENT	M81969/18-02	M81969/20-02

1/ DANIELS 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

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. 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.

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.

5. MECHANICAL:

MECHANICAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.

6. ELECTRICAL:

ELECTRICAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.

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	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-28748/3 AND MIL-DTL-28748/13 CONNECTORS)		