

REV.
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AS39029™/34

RATIONALE

LIMITED SCOPE REVISION IS REQUIRED TO REPLACE THE TABLE 3 POSITIONER COMMERCIAL PART NUMBER REFERENCES FOR BIN CODE 440 WITH THE APPLICABLE M22520/2-41 TOOL PART NUMBER AND TO DELETE THE COMMERCIAL NUMBER FOOTNOTES.

NOTICE

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

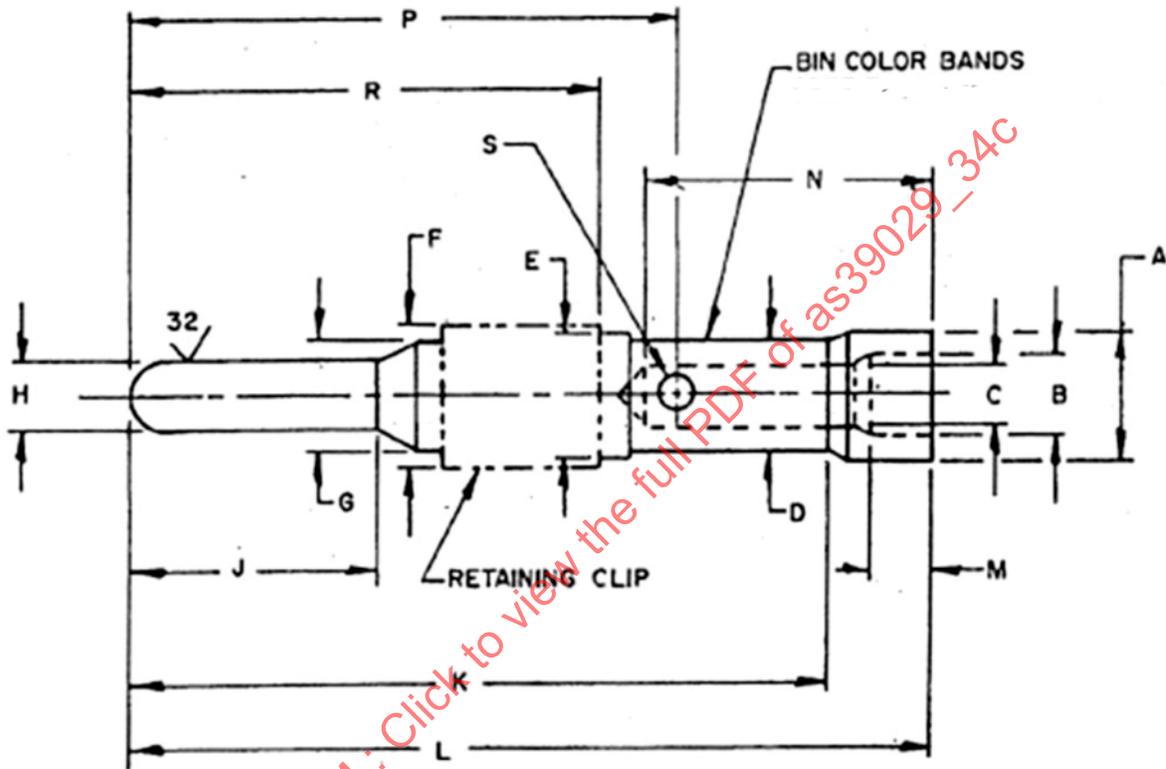
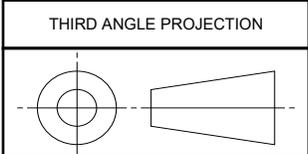


FIGURE 1- AS39029/34 PIN CONTACT

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For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/34C/>



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

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

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ISSUED 2000-07 REAFFIRMED 2016-01 REVISED 2021-01

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		.095 .092	.070 .066	.112 .109				.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 1/					
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 ±.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	M22520/2-41	M81969/18-02	M81969/20-02



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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 DOCUMENT AND THE LATEST ISSUE OF AS39029.

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLES 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.

7. ENVIRONMENTAL:

ENVIRONMENTAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.

VIBRATION IS TEST CONDITION II.

SHOCK IS TEST CONDITION I.

APPLICATION NOTES:

1. THE AS39029/34 PIN CONTACT MATES DIRECTLY INTO AN AS39029/35 SOCKET AS SHOWN IN TABLE 5.

TABLE 5 - CONTACT MATING PART NUMBERS

AS39029/34 BIN CODE	MATING AS39029/35 BIN CODE
271	274
272	275
273	276
440	441

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