

REV.
A

AS39029/107

FEDERAL SUPPLY CLASS
5999

RATIONALE

REVISE TO REMOVE GOVERNMENT JARGON, ALIGN WITH SAE AE-8 GUIDELINES, CLARIFY DRAWINGS, AND ADDRESS KNOWN TECHNICAL PROBLEMS.

NOTICE

THE REQUIREMENTS FOR PROCURING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF: SAE AS39029

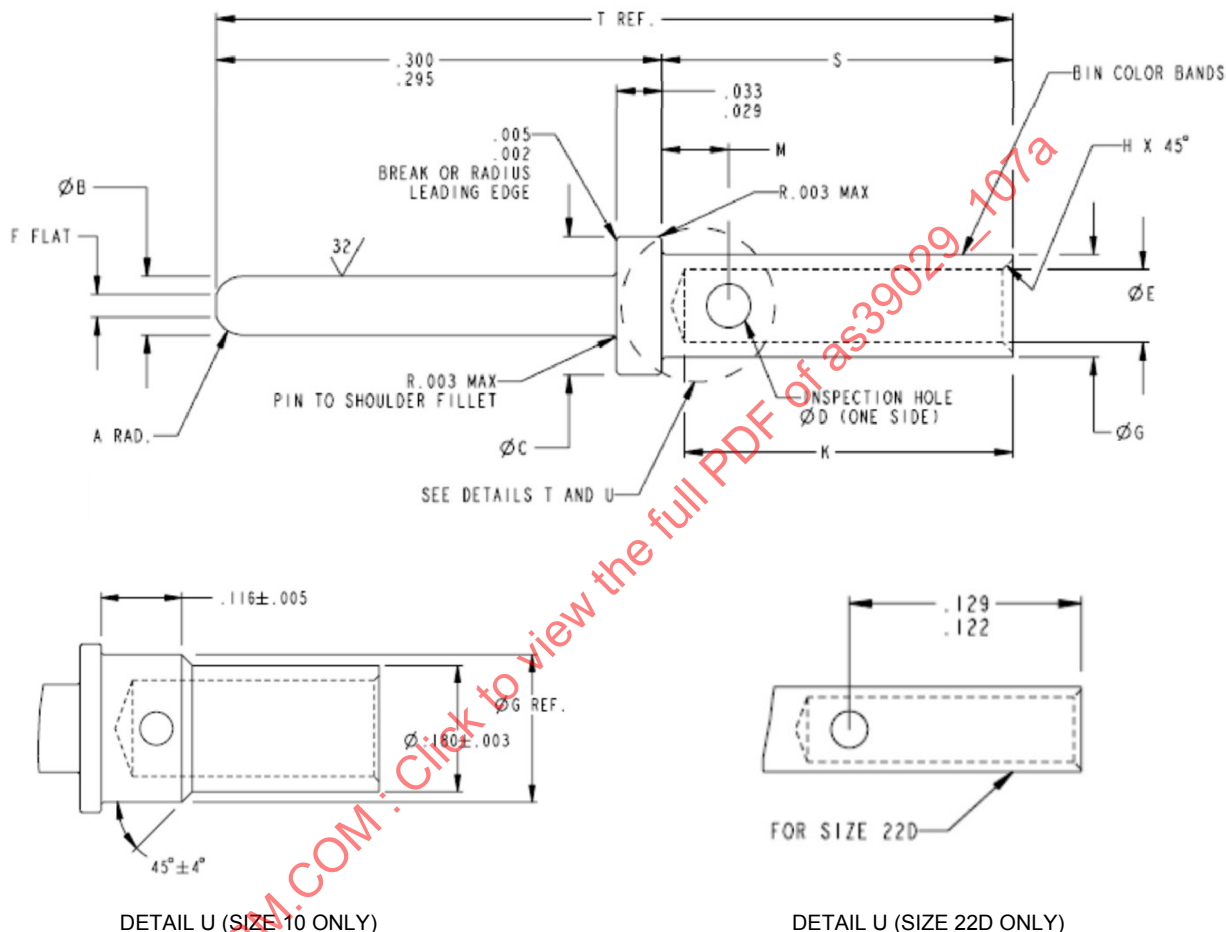
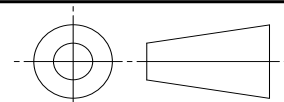


FIGURE 1- AS39029/107 PIN

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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-38999 SERIES I, III, IV, MIL-DTL-55302 AND AS29600 SERIES A CONNECTORS)

AS39029/107
SHEET 1 OF 4

REV.
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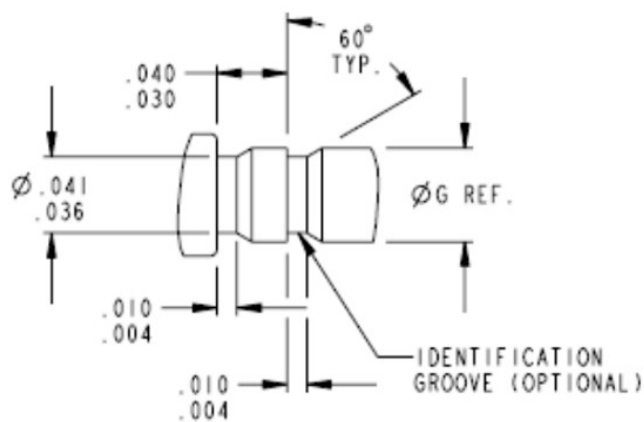
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ISSUED 2001-03 REVISED 2010-05



DETAIL T (SIZE 22D ONLY)

FIGURE 1- AS39029/106 SOCKET (CONTINUED)

TABLE 1- CONTACT DIMENSIONS

BIN CODE	A RADIUS	BØ	CØ	DØ	EØ	FØ	GØ	H 1/2	K MIN	M	Q	R	S	T REF
620	.020 .010	.0305 .0295	.062 .060	.022 .018	.0355 .0335	.011 MAX	.048 .046	.005 .003	.141	-- --	.022 .018	.046 .018	.237 .231	.531
621	.025 .015	.041 .039	.094 .091	.032 .026	.048 .046	.015 MAX	.070 .068	.010 .005	.209	.078 .072	.032 .026	.063 .026	.237 .231	.531
622	.025 .020	.0635 .0616	.130 .127	.042 .036	.068 .066	.030 .011	.103 .101	.010 .005	.209	.088 .082	.042 .030	.073 .036	.237 .231	.531
623	.025 .020	.095 .093	.182 .179	.042 .036	.102 .098	.062 .043	.151 .148	.016 .005	.209	.088 .082	.042 .030	.073 .036	.237 .231	.531
624	.025 .020	.126 .124	.242 .238	.052 .040	.140 .134	.094 .074	.213 .207	.016 .005	.355	.115 .108	N/A	N/A	.405 .395	.647

1/ RADIUS DESIGN IS OPTIONAL

TABLE 2- MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
620	BLUE	RED	BLACK	22	22D	A	B
621	BLUE	RED	BROWN	20	20		
622	BLUE	RED	RED	16	16		
623	BLUE	RED	ORANGE	12	12		
624	BLUE	RED	YELLOW	10	10		

TABLE 3- TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
620	M22520/2-01	M22520/2-07	M81969/14-01 M81969/8-01	M81969/14-01 M81969/8-02
	M22520/7-01	M22520/7-05		
621	M22520/1-01	M22520/1-04 RED	M81969/14-10 M81969/8-05	M81969/14-10 M81969/8-06
	M22520/2-01	M22520/2-10		
	M22520/7-01	M22520/7-08		
622	M22520/1-01	M22520/1-04 BLUE	M81969/14-03 M81969/8-07	M81969/14-03 M81969/8-08
	M22520/7-01	M22520/7-04		
623	M22520/1-01	M22520/1-04 YELLOW	M81969/14-04 M81969/8-09	M81969/14-04 M81969/8-10
624	AL114 1/	650087 1/	M81969/14-05 M81969/8-11	M81969/14-05 M81969/8-12
	1716P-1 2/	1716P-1 2/		

1/ ASTRO TOOL INC PART NUMBER (OR EQUIVALENT)

2/ DANIEL TOOL INC PART NUMBER (OR EQUIVALENT)

TABLE 4- PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDES PART NUMBER(S)
M39029/107-620	620	---
M39029/107-621	621	---
M39029/107-622	622	---
M39029/107-623	623	---
M39029/107-624	624	---

DETAIL SPECIFICATION REQUIREMENTS:

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2.

- ALL DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. DIMENSIONS IN PARENTHESES ARE METRIC EQUIVALENTS AND PROVIDED FOR GENERAL INFORMATION ONLY (SEE AS39029 SECTION 6.0). UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029.
- MANUFACTURER SYMBOL IN ACCORDANCE WITH AIR1351 (LOCATION OPTIONAL).

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. SUPERSEDING PART NUMBERS ARE AS SPECIFIED.

4. MATERIALS:

MATERIALS SHALL BE IN ACCORDANCE WITH AS39029.

CONTACT FINISH SHALL BE 0.000005 INCHES MINIMUM GOLD ALLOY OVER 0.000045 INCHES MINIMUM PALLADIUM-NICKEL ALLOY OVER NICKEL, IN ACCORDANCE WITH ASTM B867, TYPE II, CLASS 1.3, GRADE 2, AND COMPATIBLE WITH GOLD FINISH AS DEFINED IN AS39029.

5. MECHANICAL:

MECHANICAL PROPERTIES SHALL BE IN ACCORDANCE WITH AS39029.

CONTACT DURABILITY SHALL BE 1500 CYCLES.

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