

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.

REV.
A

SAE AS39029/47

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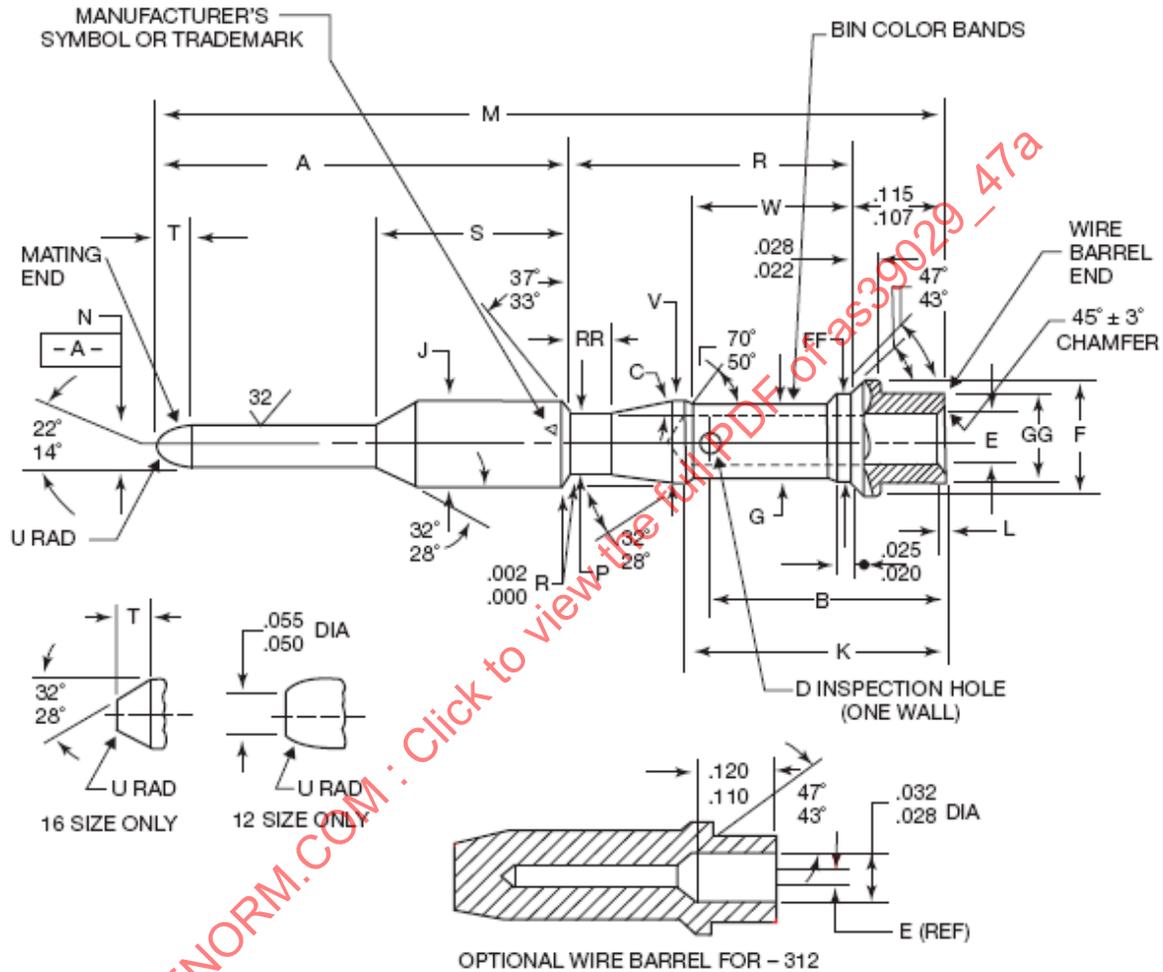
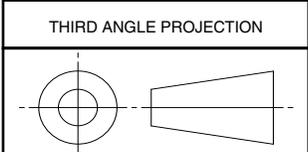


FIGURE 1 - AS39029/47 PIN

SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS39029/47a>



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-C-81511 SERIES 1 & 2 CONNECTORS)

SAE AS39029/47
SHEET 1 OF 4

REV. A

TABLE 1 - CONTACT DIMENSIONS

BIN code	A	B	C (DEG)	D DIA	E DIA	F DIA	FF DIA	G DIA	GG DIA	J DIA	K	L	
312		.201	8	.022	.020 .018	.064 (1.63)	N/A	.0545	.050	.051	.235		
314		.190	7	.018	.037 .035	.062 (1.57)		.052	.048	.049	.215		
316		.391 .382	.252 .241	11	.032	.050 .048		.103 (2.62) .100 (2.54)	.078 .075	.078 .076	.078 .076		.276 .256
337		.257 .246	10			.026		.068 .066	.133 (3.38) .130 (3.30)	.113 .110	.105 .101		.103 .101
339				.102 .098	.190 (4.83) .187 (4.75)			.161 .158	.152 .148	.158 .155	.161 .158		.296 .276

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN code	M (REF)	N DIA	P DIA	R	RR	S	T	U RAD	V DIA	W	APROX. WEIGHT (LBS)	
312	.749 (19.02)	.0275	.039	.254			.029	.009	N/A	N/A	.00037	
314		.0265	.036	.249			.024	.006				.00031
316	.745 (19.15)	.041	.065	.259	.030 MIN.	.186 .179	.030	.016	.0805	.120	.00066	
337		.039	.062				.254	.025	.010	.078	.114	
339		.0635	.099					N/A	.041	N/A	N/A	
		.0615	.096					.031				.00225

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
312	ORANGE	BROWN	RED	23	28	A	B
314	ORANGE	BROWN	YELLOW	23	22	A	B
316	ORANGE	BROWN	BLUE	20	20	A	B
337	ORANGE	ORANGE	VIOLET	16	15	A	B
339	ORANGE	ORANGE	WHITE	12	12	A	B

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
312	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-05	M81969/30-01
314	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-05	M81969/30-01
316	M22520/1-01	M22520/1-08 RED	M81969/2-02	M81969/3-06	M81969/30-02
	M22520/7-01	M22520/7-09			
337	M22520/1-01	M22520/1-08 BLUE	M81969/2-03	M81969/3-07	M81969/30-03
	M22520/7-01	M22520/7-10			
339	M22520/1-01	M22520/1-08 YELLOW	M81969/2-04	M81969/3-08	M81969/30-04

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/47-312	312	M39029/47-311 MS90461A23-28 MS90461B23-28
M39029/47-314	314	M39029/47-313 MS90461A23-22 MS90461B23-22
M39029/47-316	316	M39029/47-315 MS90461A20-20 MS90461B20-20
M39029/47-337	337	M39029/47-336 MS90461A16-16 MS90461B16-16
M39029/47-339	339	M39029/47-338 MS90461A12-12 MS90461B12-12

DETAIL SPECIFICATION REQUIREMENTS:

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1, TABLE 1 AND 2. DIMENSIONS ARE IN INCHES AND SHOWN AFTER PLATING. UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029. ALL DIMENSIONS PROVIDED IN PARENTHESES ARE METRIC EQUIVALENTS AND GIVEN 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.

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	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN CRIMP REMOVABLE (FOR MIL-C-81511 SERIES 1 & 2 CONNECTORS)		