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REV. C
AS39029™/47

FEDERAL SUPPLY CLASS
5999

RATIONALE

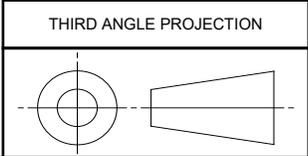
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CUSTODIAN: AE-8C1		PROCUREMENT SPECIFICATION: AS39029	
	AEROSPACE STANDARD		AS39029™/47
	CONTACTS, ELECTRICAL CONNECTOR, PIN CRIMP REMOVABLE (FOR AS81511 SERIES 1 & 2 CONNECTORS)		

ISSUED 2001-03 REVISED 2014-10 REAFFIRMED 2019-12 STABILIZED 2025-02

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	.391 (9.93) .382 (9.70)	.201 (5.11)	8°	.022 (.559)	.020 (0.508) .018 (0.457)	.064 (1.63)	N/A	.0545 (1.38)	.050 (1.27)	.051 (1.30)	.235 (5.97)	.006 (0.15) .003 (0.08)	
314		.190 (4.83)	7°	.018 (.457)	.037 (0.940) .035 (0.889)	.062 (1.57)		.052 (1.32)	.048 (1.22)	.049 (1.24)	.215 (5.46)		
316		.252 (6.40) .241 (6.12)	11° 10°	.032 (.813) .026 (.660)	.050 (1.27) .048 (1.22)	.103 (2.62) .100 (2.54)		.113 (2.87) .110 (2.79)	.078 (1.98) .075 (1.91)	.078 (1.98) .076 (1.93)	.078 (1.98) .076 (1.93)		.276 (7.01) .256 (6.50)
337		.257 (6.53) .246 (6.25)			.068 (1.73) .066 (1.68)	.133 (3.38) .130 (3.30)		.113 (2.87) .110 (2.79)	.105 (2.67) .101 (2.57)	.103 (2.62) .101 (2.57)	.113 (2.87) .110 (2.79)		.286 (7.26) .266 (6.76)
339					.102 (2.59) .098 (2.49)	.190 (4.83) .187 (4.75)		.161 (4.09) .158 (4.01)	.152 (3.86) .148 (3.76)	.158 (4.01) .155 (3.94)	.161 (4.09) .158 (4.01)		.296 (7.52) .276 (7.01)

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN CODE	M (REF)	N DIA	P DIA	R	RR	S	T	U RAD	V DIA	W	APROX. WEIGHT (LB)					
312	.749 (19.02)	.0275 (0.699)	.039 (0.99)	.254 (6.45)	.030 (0.76) MIN.	.186 (4.72)	.029 (0.74)	.009 (0.23)	N/A	N/A	.00037					
314		.0265 (0.673)	.036 (0.91)	.249 (6.32)			.024 (0.61)	.006 (0.15)			.00031					
316	.745 (18.92)	.041 (1.04) .039 (0.99)	.065 (1.65) .062 (1.57)	.259 (6.58) .254 (6.45)			.179 (4.55)	.030 (0.76) .025 (0.64)	.016 (0.41) .010 (0.25)	.0805 (2.04) .078 (1.98)	.120 (3.05) .114 (2.90)	.00066				
337		.0635 (1.61) .0615 (1.56)	.099 (2.51) .096 (2.44)										.041 (1.04) .031 (0.79)	N/A	N/A	.00127
339		.095 (2.41) .093 (2.36)	.145 (3.68) .142 (3.61)													

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	16	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:

CONTACTS 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, GIVEN FOR GENERAL INFORMATION ONLY AND BASED ON 1 INCH = 25.4 MILLIMETERS.

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.

	AEROSPACE STANDARD	AS39029™/47 SHEET 3 OF 4	REV. C
	CONTACTS, ELECTRICAL CONNECTOR, PIN CRIMP REMOVABLE (FOR AS81511 SERIES 1 & 2 CONNECTORS)		