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REV.
C

AS39029™/33

RATIONALE

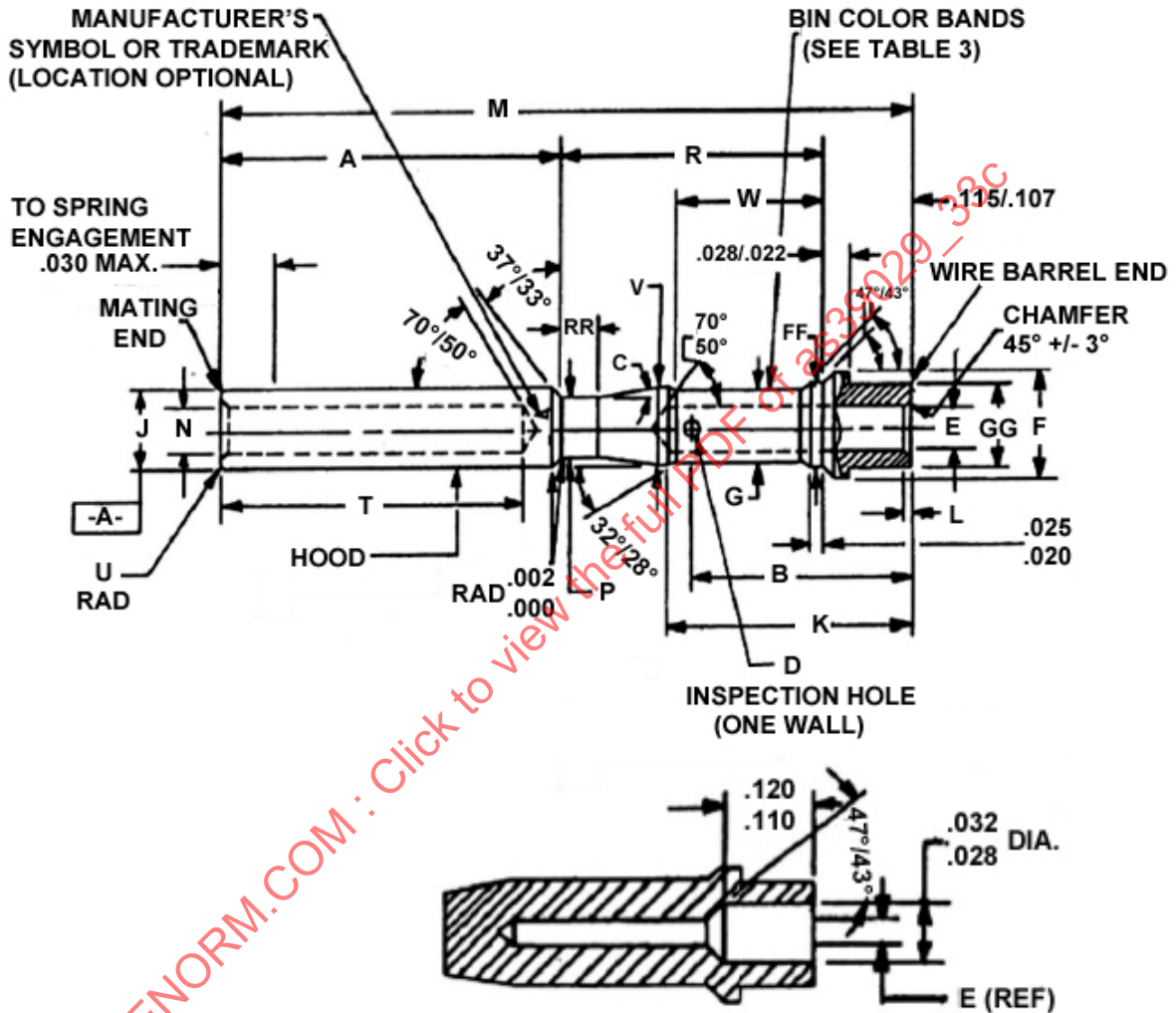
REVISION IS REQUIRED TO CORRECT INSTALLING TOOL PART NUMBER IN TABLE 4 FOR BIN 264 (M81969/2-02 SHOULD BE M81969/2-01) AND THE AS39029 BASE SPEC EXCEPTIONS SPECIFIC TO THIS DETAIL SHEET NEED TO BE ADDED.

AS39029/33C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

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

FEDERAL SUPPLY CLASS
5999



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CIRMP REMOVABLE
(FOR AS81511 SERIES 1 CONNECTORS)

AS39029™/33
SHEET 1 OF 4

REV.
C

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ISSUED 2000-07 REVISED 2018-03 REAFFIRMED 2023-01

TABLE 1 – FIGURE 1 METRIC EQUIVALENTS

INCHES	MM	INCHES	MM	INCHES	MM
.002	0.051	.028	0.711	.110	2.79
.020	0.508	.030	0.762	.115	2.92
.022	0.559	.032	0.813	.120	3.05
.025	0.635	.107	2.72		

TABLE 2 - CONTACT DIMENSIONS

BIN CODE	A	B	C (DEG)	D DIA	E DIA	F DIA	FF DIA	G DIA	GG DIA	J DIA	K
262	.686 (17.42) .674 (17.12)	.201 (5.11) .190 (4.83)	8° 7°	.022 (0.559) .018 (0.457)	.020 (0.508) .018 (0.457) .037 (0.940) .035 (0.889)	.064 (1.63) .062 (1.57)	N/A	.0545 (1.38) .052 (1.32)	.050 (1.27) .048 (1.22)	.051 (1.30) .049 (1.24)	.235 (5.97) .215 (5.46)
264											
266		.252 (6.40) .241 (6.12)	11° 10°	.032 (0.813) .026 (0.660)	.050 (1.27) .048 (1.22) .068 (1.73) .066 (1.68)	.103 (2.62) .100 (2.54)		.078 (1.98) .075 (1.91) .105 (2.67)	.078 (1.98) .076 (1.93)	.078 (1.98) .076 (1.93)	.276 (7.01) .256 (6.50)
268		.257 (6.53) .246 (6.25)			.133 (3.38) .130 (3.30) .190 (4.83) .187 (4.75)	.113 (2.87) .110 (2.79) .161 (4.09) .158 (4.01)		.101 (2.57)	.101 (2.57)	.110 (2.79)	.286 (7.26) .266 (6.76)
270					.102 (2.59) .098 (2.49)	.190 (4.83) .187 (4.75)		.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 2 - CONTACT DIMENSIONS (CONTINUED)

BIN CODE	L	M REF	N MIN DIA ONLY	P DIA	R	RR MIN	T	U RAD	V DIA	W	APPROX WEIGHT (LB)
262	.006 (0.15) .003 (0.08)	1.043 (26.49)	.028 (0.71)	.039 (0.99) .036 (0.91)	.254 (6.45) .249 (6.32)	.030 (0.76)	.220 (5.59) .170 (4.32)	.006 (0.15) .004 (0.10)	N/A	N/A	.00055
264											.00049
266		1.048 (26.62)	.0415 (1.05)	.065 (1.65) .062 (1.57)	.259 (6.58) .254 (6.45)		.320 (8.13) .270 (6.86)	.009 (0.23) .007 (0.18) .012 (0.30) .009 (0.23)	.0805 (2.04) .078 (1.98)	.120 (3.05) .114 (2.90)	.00107
268			.064 (1.63)	.099 (2.51) .096 (2.44)					N/A	N/A	.00210
270			.010 (0.25) .005 (0.13)	.0955 (2.43)			.145 (3.68) .142 (3.61)	.270 (6.86) .250 (6.35)			.017 (0.43) .013 (0.33)

TABLE 3 - MARKING AND DESIGN CHARACTERISTICS

BIN CODES	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
262	RED	BLUE	RED	23	28	A	B
264	RED	BLUE	YELLOW	23	22	A	B
266	RED	BLUE	BLUE	20	20	A	B
268	RED	BLUE	GRAY	16	16	A	B
270	RED	VIOLET	BLACK	12	12	A	B

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TABLE 4 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL (WIRED/UNWIRED)
262	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01
264	M22520/2-01	M22520/2-03	M81969/2-01	M81969/3-01
266	M22520/1-01	M22520/1-08 RED	M81969/2-02	M81969/3-02
	M22520/7-01	M22520/7-09		
268	M22520/1-01	M22520/1-08 BLUE	M81969/2-03	M81969/3-03
	M22520/7-01	M22520/7-10		
270	M22520/1-01	M22520/1-08 YELLOW	M81969/2-04	M81969/3-04

TABLE 5 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/33-262	262	M39029/33-261 MS3343A23-28 MS3343B23-28
M39029/33-264	264	M39029/33-263 MS3343A23-22 MS3343B23-22
M39029/33-266	266	M39029/33-265 MS3343A20-20 MS3343B20-20
M39029/33-268	268	M39029/33-267 MS3343A16-16 MS3343B16-16
M39029/33-270	270	M39029/33-269 MS3343A12-12 MS3343B12-12

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, AND TABLES 2 AND 3. 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 TABLE 1). AN ALTERNATE DESIGN OF THE WIRE BARREL LEAD-IN ANGLE SHALL BE AS FOLLOWS:

SIZE 23 - BLEND RADIUS .010 INCH $\pm$.005 INCH.
 SIZE 22 - BLEND RADIUS .010 INCH $\pm$.005 INCH.
 SIZE 20 - BLEND RADIUS .015 INCH $\pm$.005 INCH.
 SIZE 16 - BLEND RADIUS .020 INCH $\pm$.005 INCH.
 SIZE 12 - BLEND RADIUS .020 INCH $\pm$.010 INCH.

2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO WIRE/CABLE AND THE INSTALLING/REMOVAL FROM THE CONNECTOR SHALL BE IN ACCORDANCE WITH TABLE 4.

3. PART NUMBERS:

CONTACT PART NUMBERS SHALL BE IN ACCORDANCE WITH TABLE 5. 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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