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REV.
C

AS39029/93

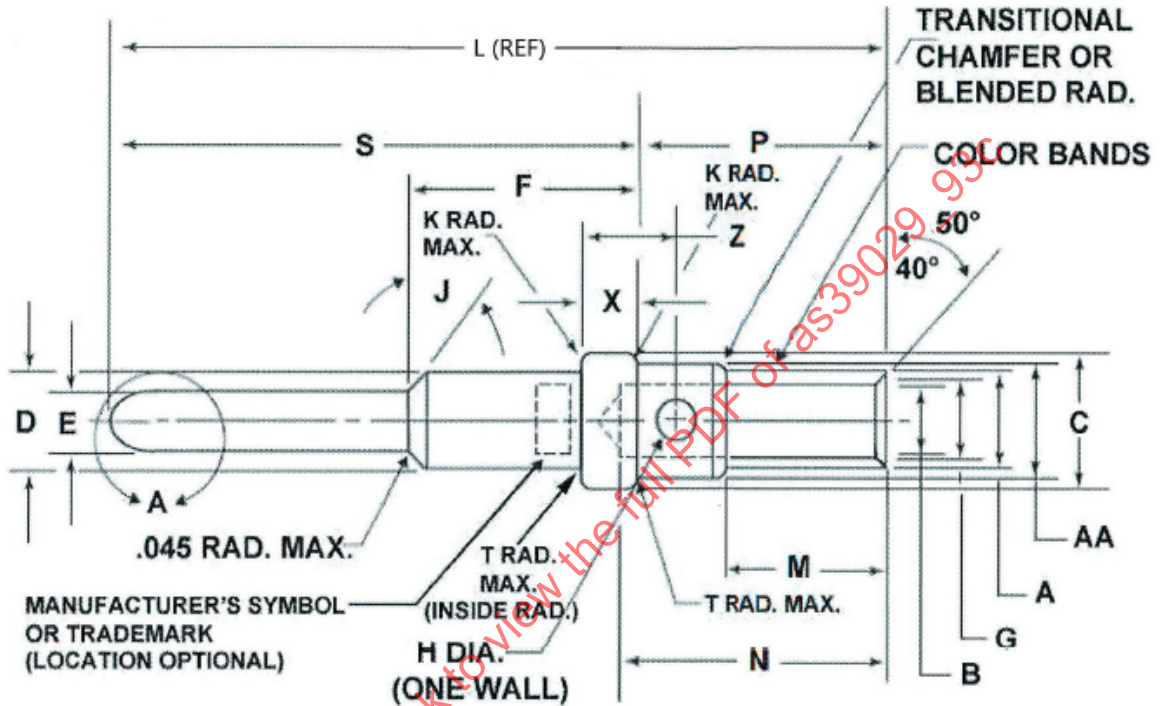
FEDERAL SUPPLY CLASS
5999

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO CLARIFY FIGURE 1 AND TABLE 1 FOR DIMENSIONS L AND P.

NOTICE

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

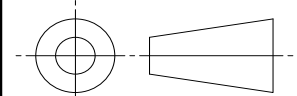


PIN SIDE (ALL BIN CODES) AND WIRE BARREL SIDE (BIN CODE 539 & 540)

FIGURE 1 - AS39029/93 PIN CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/93C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
PIN, CRIMP REMOVABLE
(FOR MIL-DTL-83527, CONNECTOR)

AS39029/93
SHEET 1 OF 4

REV.
C

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ISSUED 2000-07 REAFFIRMED 2019-07 REVISED 2023-01

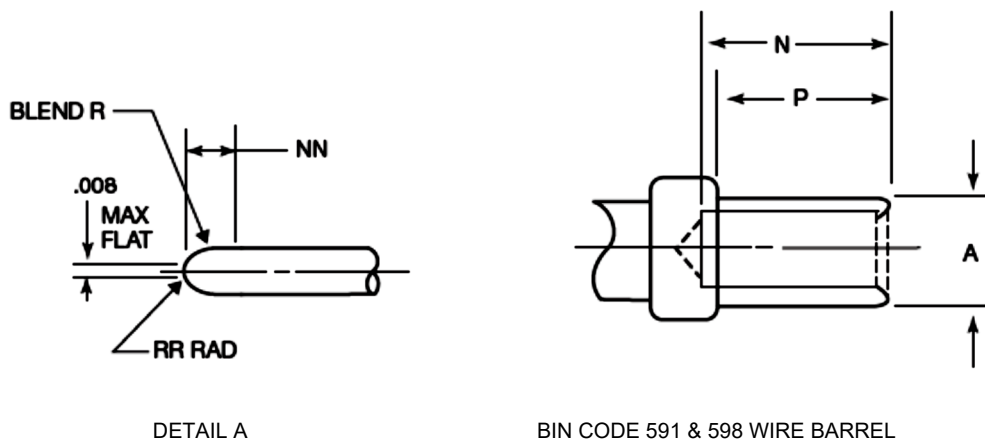


FIGURE 1A - AS39029/93 PIN CONTACT (CONTINUED)

TABLE 1 - CONTACT DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	D DIA	E DIA	F	G DIA	H DIA	J (DEG)	K RAD	L (REF)
597 (22-22)	.052 (1.32) .050 (1.27)	.0375 (0.953) .0340 (0.864)	.070 (1.78) .068 (1.73)	.050 (1.27) .047 (1.19)	.031 (0.79) .029 (0.74)	.137 (3.48) .127 (3.23)	.047 (1.19) .041 (1.04)	.022 (0.56) .018 (0.46)	---	.003 (0.08)	.665 (16.89) .645 (16.38)
598 (20-20)	.068 (1.73) .065 (1.65)	.0460 (1.168) .0430 (1.092)	.084 (2.13) .082 (2.08)	.072 (1.83) .069 (1.75)	.041 (1.04) .039 (0.99)	.177 (4.50) .171 (4.34)	.058 (1.47) .052 (1.32)	.033 (0.84) .025 (0.64)	50° 40°	.003 (0.08)	.790 (20.07) .770 (19.56)
539 (16-16)	.103 (2.62) .101 (2.57)	.068 (1.73) .066 (1.68)	.134 (3.40) .130 (3.30)	.113 (2.87) .110 (2.79)	.0635 (1.61) .0615 (1.56)	.241 (6.12) .226 (5.74)	.090 (2.29) .080 (2.03)	.042 (1.07) .036 (0.91)	35° 25°	.005 (0.13)	.937 (23.80)
540 (12-12)	.151 (3.84) .148 (3.76)	.102 (2.59) .098 (2.49)	.190 (4.83) .186 (4.72)	.151 (3.84) .148 (3.76)	.095 (2.41) .093 (2.36)	.241 (6.12) .226 (5.74)	.140 (3.56) .130 (3.30)	.042 (1.07) .036 (0.91)	35° 25°	.005 (0.13)	.937 (23.80)

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN CODE	M MIN	N	P	S	T RAD	X	Z	AA DIA	NN	RR
597 (22-22)	N/A	.165 (4.19) .135 (3.43)	.237 (6.02) .231 (5.87)	.455 (11.56) .446 (11.33)	.002 (0.05)	.034 (0.86) .029 (0.74)	.161 (4.09) .132 (3.35)	N/A	.060 (1.52) .050 (1.27)	.010 (0.25) .004 (0.10)
598 (20-20)	N/A	.190 (4.83) .150 (3.81)	.165 (4.19) .155 (3.94)	.622 (15.89) .617 (15.67)	.002 (0.05)	.034 (0.86) .029 (0.74)	.069 (1.75) .054 (1.37)	N/A	.070 (1.78) .050 (1.27)	.010 (0.25) .004 (0.10)
539 (16-16)	.150 (3.81)	.290 (7.37) .250 (6.35)	.257 (6.53) .245 (6.22)	.691 (17.55) .681 (17.30)	.003 (0.08)	.048 (1.22) .044 (1.12)	.083 (2.11) .069 (1.75)	.111 (2.82) .107 (2.72)	.100 (2.54) .060 (1.52)	.020 (0.51) .010 (0.25)
540 (12-12)	.150 (3.81)	.290 (7.37) .250 (6.35)	.257 (6.53) .245 (6.22)	.691 (17.55) .681 (17.30)	.003 (0.08)	.048 (1.22) .044 (1.12)	.083 (2.11) .069 (1.75)	.158 (4.01) .155 (3.94)	N/A	N/A

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
597	GREEN	WHITE	VIOLET	22	22	A	B
598	GREEN	WHITE	GREY	20	20	A	B
539	GREEN	ORANGE	WHITE	16	16	A	B
540	GREEN	YELLOW	BLACK	12	12	A	B

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
597	M22520/2-01	M22520/2-23	M81969/1-01	M81969/1-01
598	M22520/2-01	M22520/2-08	M81969/1-02	M81969/1-02
	M22520/7-01	M22520/7-02		
539	M22520/1-01	M22520/1-02 BLUE	M81969/1-03	M81969/1-03
	M22520/7-01	M22520/7-03		
540	M22520/1-01	M22520/1-11	N/A	M81969/28-02

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/93-597	597	M39029/93-537
M39029/93-598	598	M39029/93-538
M39029/93-539	539	N/A
M39029/93-540	540	N/A

DETAIL SPECIFICATION REQUIREMENTS:

1. DESIGN:

CONTACT SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES AND SHOWN AFTER PLATING. UNLESS OTHERWISE SPECIFIED, SPHERICAL END DIMENSIONS SHALL CONFORM TO AS39029. ALL DIMENSIONS IN PARENTHESES ARE METRIC EQUIVALENTS PROVIDED FOR GENERAL INFORMATION ONLY AND BASED ON 1 INCH = 25.4 MM.

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.

M39029/93-597 CONTACT BENDING MOMENT SHALL BE .23 POUND-INCH.

	AEROSPACE STANDARD	AS39029/93 SHEET 3 OF 4	REV. C
	CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE (FOR MIL-DTL-83527, CONNECTOR)		