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REV.
E

AS39029™/45

FEDERAL SUPPLY CLASS
5999

RATIONALE

LIMIT SCOPE REVISION NEEDED TO ADD NEW TOOLS TO TABLE 3 AND PROVIDE MINOR TECHNICAL CHANGES AS NEEDED.

NOTICE

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

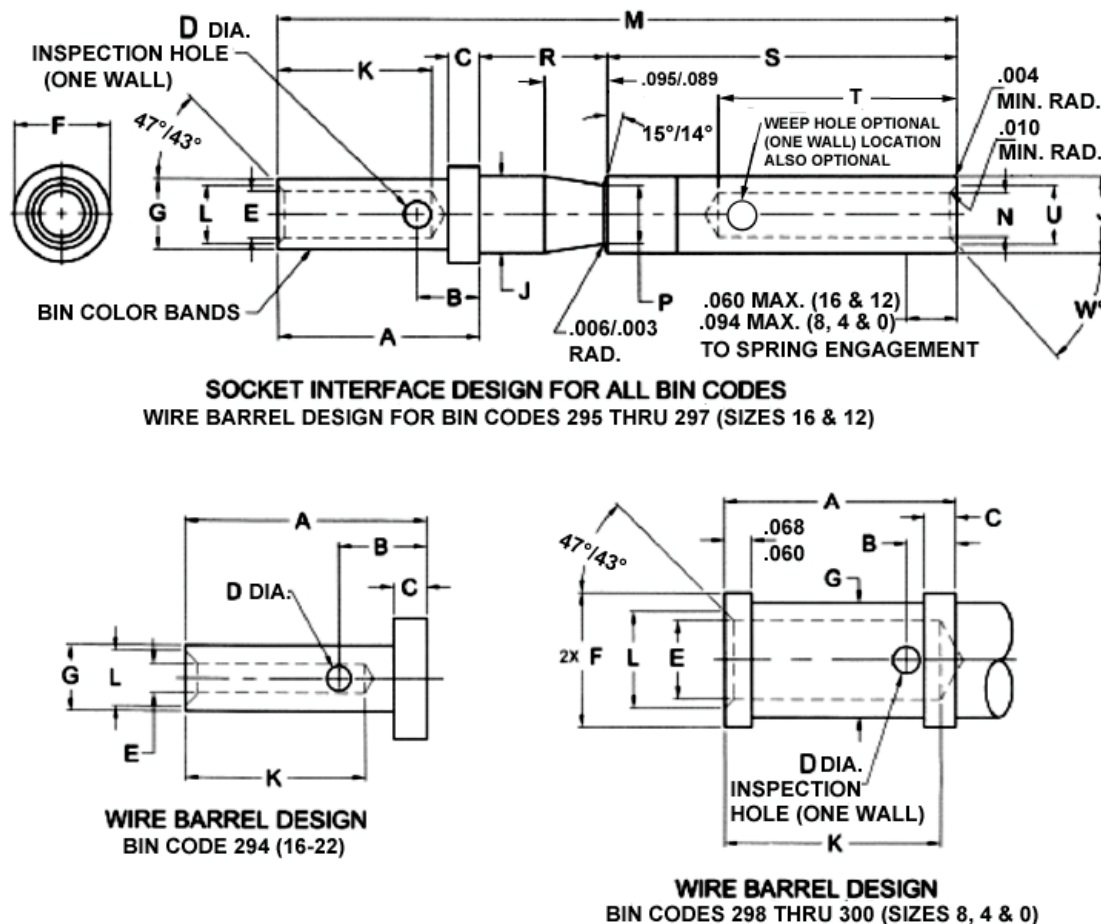
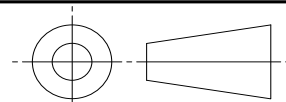


FIGURE 1 - SOCKET CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/45E/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET,
CRIMP REMOVABLE (FOR AS50151 SERIES
AS34001 AND AS95234 CONNECTORS)

AS39029™/45
SHEET 1 OF 4

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TABLE 1 - CONTACT DIMENSIONS

BIN CODE	E DIA	F DIA	J DIA	M REF	N DIA	P DIA	R	S	T MIN	U MIN	W
294	.0355 (0.90) .0335 (0.85)	.148 (3.76) .133 (3.38)	.113 (2.87) .110 (2.79)	1.272 (32.31)	.064 (1.63)	.087 (2.21) .083 (2.11)	.189 (4.80) .185 (4.70)	.808 (20.52) .798 (20.27)	.510 (12.95)	.086 (2.18)	53° 43°
295	.068 (1.73)	.202 (5.13) .189 (4.80)	.161 (4.09) .158 (4.01)	1.286 (32.66)		.0955 (2.43)					
296	.066 (1.68)										
297	.102 (2.59) .098 (2.49)										
298	.184 (4.67) .179 (4.55)	.313 (7.95) .309 (7.85)	.252 (6.40) .249 (6.32)	1.505 (38.23)	.149 (3.78) .145 (3.68)	.225 (5.72) .221 (5.61)	.249 (6.32)	.744 (18.90) .734 (18.64)	.193 (4.90)	31° 29°	
299	.286 (7.26) .279 (7.09)	.419 (10.64) .409 (10.39)	.336 (8.53) .333 (8.46)		.232 (5.89) .228 (5.79)	.310 (7.87) .307 (7.80)					
300	.458 (11.63) .451 (11.46)	.611 (15.52) .601 (15.27)	.518 (13.16) .515 (13.08)	1.660 (42.16)	.364 (9.25) .360 (9.14)	.492 (12.50) .489 (12.42)			.280 (7.11) .386 (9.80)		

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN CODE	A	B	C	D DIA	G DIA	K	L
294	.285 (7.24) .280 (7.11)	.106 (2.69) .100 (2.54)	.042 (1.07) .036 (0.91)	.032 (0.81) .026 (0.66)	.078 (1.98) .076 (1.93)	.216 (5.49) .206 (5.23)	.067 (1.70) .061 (1.55)
295	.298 (7.57) .294 (7.47)	.079 (2.01) .073 (1.85)		.042 (1.07) .036 (0.91)	.105 (2.67) .101 (2.57)	.281 (7.14) .250 (6.35)	.090 (2.29) .080 (2.03)
296					.153 (3.89) .147 (3.73)		.125 (3.18) .115 (2.92)
297							
298	.520 (13.21) .510 (12.95)	.094 (2.39) .084 (2.13)	.048 (1.22) .044 (1.12)	.066 (1.68) .060 (1.52)	.269 (6.83) .263 (6.68)	.534 (13.56) .480 (12.19)	.230 (5.84) .220 (5.59)
299					.380 (9.65) .370 (9.40)		.364 (9.25) .354 (8.99)
300	.675 (17.15) .665 (16.89)				.568 (14.43) .558 (14.17)	.690 (17.53) .636 (16.15)	.542 (13.77) .532 (13.51)

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODES	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE SIZE	CLASS
	1ST	2ND	3RD				
294	RED	WHITE	YELLOW	16	22	A	B
295	RED	WHITE	GREEN	16	16		
296 1/	RED	WHITE	BLUE	12	16		
297	RED	WHITE	VIOLET	12	12		
298	RED	WHITE	GRAY	8	8		
299	RED	WHITE	WHITE	4	4		
300	ORANGE	BLACK	BLACK	0	0		

1/ BIN 296 SHALL MEET ALL APPLICABLE TEST REQUIREMENTS FOR SIZE 12-14.

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	DIE SET	LOCATOR	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
294 1/	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-09	M81969/19-01
295	M22520/1-01	---	---	M22520/1-02 BLUE	M81969/17-04	M81969/19-01
296	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-04	M81969/19-02
297	M22520/1-01	---	---	M22520/1-02 YELLOW	M81969/17-05	M81969/19-02
298	M22520/23-01 M22520/48-01	M22520/23-02	M22520/23-09	---	M81969/17-06	M81969/19-03
299		M22520/23-04	M22520/23-11	---	M81969/17-07	M81969/19-04
300		M22520/23-05	M22520/23-13	---	M81969/17-08	M81969/19-05

1/ USE SELECTOR NUMBER 3, 2, AND 1 FOR WIRE SIZE 22, 24, AND 26, RESPECTIVELY.



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