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REV.
C

AS39029™/17

FEDERAL SUPPLY CLASS
5999

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY, TO REVISE THE USAGE STATEMENT TO MEET THE LATEST SAE GUIDELINES, TO INCORPORATE THE APPLICABLE AS39029 BASE SPEC DETAIL SHEET EXCEPTIONS, AND TO ADD METRIC EQUIVALENTS/FORMAT UPDATES.

NOTICE

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

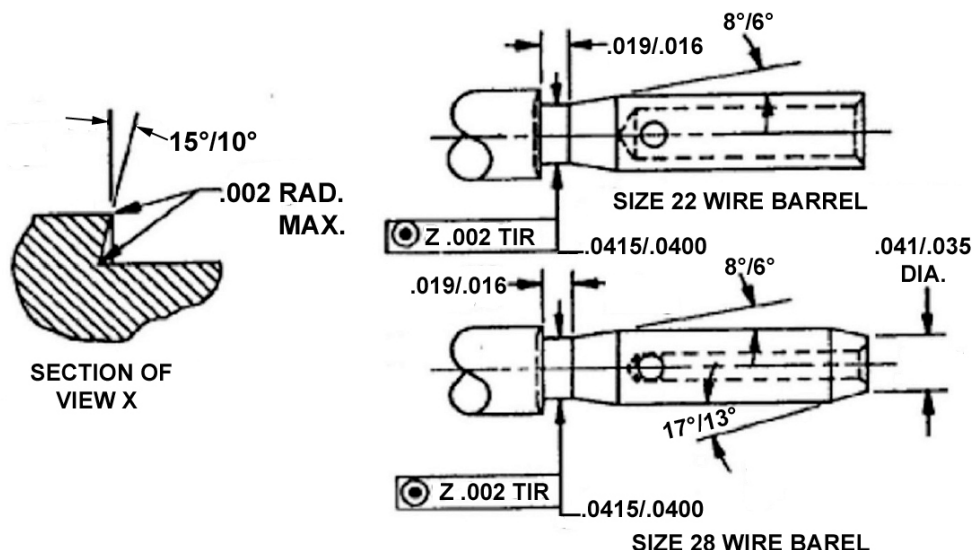
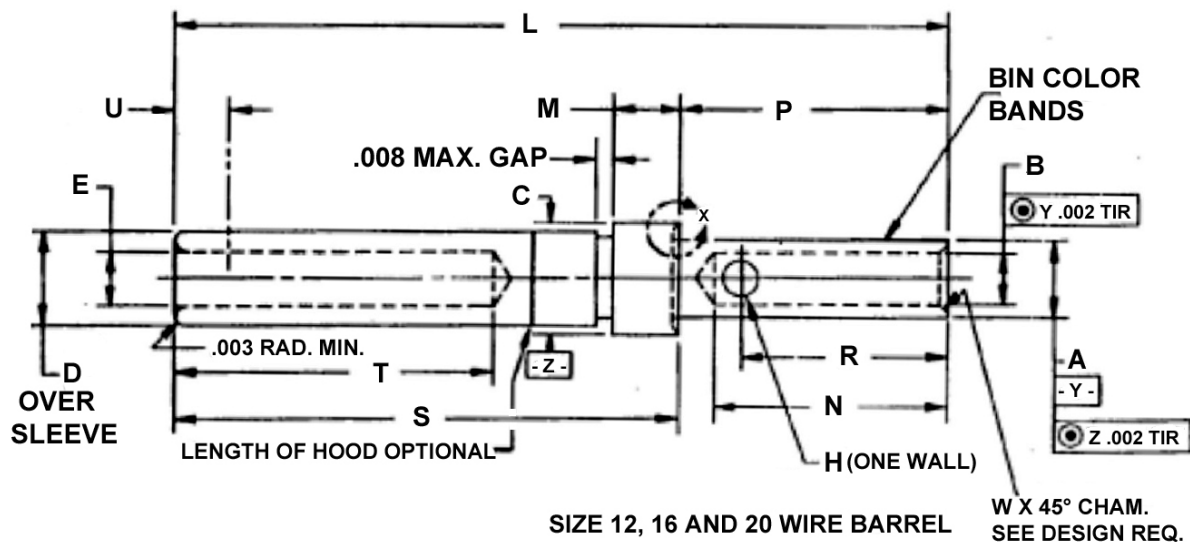
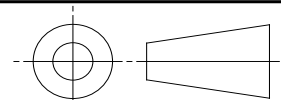


FIGURE 1 - AS39029/17 SOCKET CONFIGURATIONS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/17C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR
SOCKET, CRIMP REMOVABLE
(FOR AS81511 SERIES 3 CONNECTORS)

AS39029™/17
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TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
.002	0.05	.016	0.41	.0400	1.02
.003	0.08	.019	0.48	.041	1.04
.008	0.20	.035	0.89	.0415	1.05

TABLE 2 - CONTACT DIMENSIONS

BIN CODE	A DIA.	B DIA.	C DIA.	D MAX. DIA.	E MIN. DIA. ONLY	H DIA.	L (REF.)	M	N	P	R	S	T	U MAX.	W CHAM.
171	.0480	.0200	.0555			.022		.445	.155	.218	.145	.726	.250		.006
	(1.22)	(0.51)	(1.41)	.055	.028	(0.56)	.937	(11.30)	(3.94)	(5.54)	(3.68)	(18.44)	(6.35)	.038	(0.15)
	.0465	.0180	.0540	(1.40)	(0.71)	.018	(23.80)	.425	.145	.208	.139	.716	.190	(0.97)	.003
172	(1.18)	(0.46)	(1.37)			(0.46)		(10.80)	(3.68)	(5.28)	(3.53)	(18.19)	(4.83)		(0.08)
	.0480	.0355	.0555			.022		.445	.155	.218	.145	.726	.250		.006
	(1.22)	(0.90)	(1.41)	.055	.028	(0.56)	.937	(11.30)	(3.94)	(5.54)	(3.68)	(18.44)	(6.35)	.038	(0.15)
173	.0465	.0335	.0540	(1.40)	(0.71)	.018	(23.80)	.425	.145	.208	.139	.716	.190	(0.97)	.003
	(1.18)	(0.85)	(1.37)			(0.46)		(10.80)	(3.68)	(5.28)	(3.53)	(18.19)	(4.83)		(0.08)
	.0615	.0450	.0760			.027		.395	.195	.218	.165	.726	.360		.007
174	(1.56)	(1.14)	(1.93)	.076	.0415	(0.69)	.937	(10.03)	(4.95)	(5.54)	(4.19)	(18.44)	(9.14)	.045	(0.18)
	.0600	.0430	.0745	(1.93)	(1.05)	.023	(23.80)	.375	.185	.208	.159	.716	.270	(1.14)	.004
	(1.52)	(1.09)	(1.89)			(0.58)		(9.53)	(4.70)	(5.28)	(4.04)	(18.19)	(6.86)		(0.10)
175	.0925	.0645	.1080			.027		.370	.195	.218	.165	.726	.360		.010
	(2.35)	(1.64)	(2.74)	.108	.064	(0.69)	.937	(9.40)	(4.95)	(5.54)	(4.19)	(18.44)	(9.14)	.045	(0.25)
	.0910	.0625	.1065	(2.74)	(1.63)	.023	(23.80)	.350	.185	.208	.159	.716	.270	(1.14)	.006
175	(2.31)	(1.59)	(2.71)			(0.58)		(8.89)	(4.70)	(5.28)	(4.04)	(18.19)	(6.86)		(0.15)
	.1515	.1020	.1695			.042		.370	.232	.245	.196	.726	.360		.012
	(3.85)	(2.59)	(4.31)	.169	.0955	(1.07)	.954	(9.40)	(5.89)	(6.22)	(4.98)	(18.44)	(9.14)	.050	(0.30)
175	.1500	.0980	.1680	(4.29)	(2.43)	.038	(24.23)	.350	.216	.235	.190	.716	.250	(1.27)	.006
	(3.81)	(2.49)	(4.27)			(0.97)		(8.89)	(5.49)	(5.97)	(4.83)	(18.19)	(6.35)		(0.15)

TABLE 3 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
171	BROWN	VIOLET	BROWN	23	28	A	B
172	BROWN	VIOLET	RED	23	22		
173	BROWN	VIOLET	ORANGE	20	20		
174	BROWN	VIOLET	YELLOW	16	16		
175	BROWN	VIOLET	GREEN	12	12		

TABLE 4 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL	
				WIRED CONTACT	UNWIRED CONTACT
171	M22520/2-01	M22520/2-16	M81969/16-04	M81969/16-04	M81969/30-01
172	M22520/2-01	M22520/2-16	M81969/16-04	M81969/16-04	M81969/30-01
173	M22520/2-01	M22520/2-17	M81969/16-01	M81969/16-01	M81969/30-02
174	M22520/2-01	M22520/2-18	M81969/16-02	M81969/16-02	M81969/30-03
175	M22520/1-01	M22520/1-10	M81969/16-03	M81969/16-03	M81969/30-04



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