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REV.
D

AS39029™/94

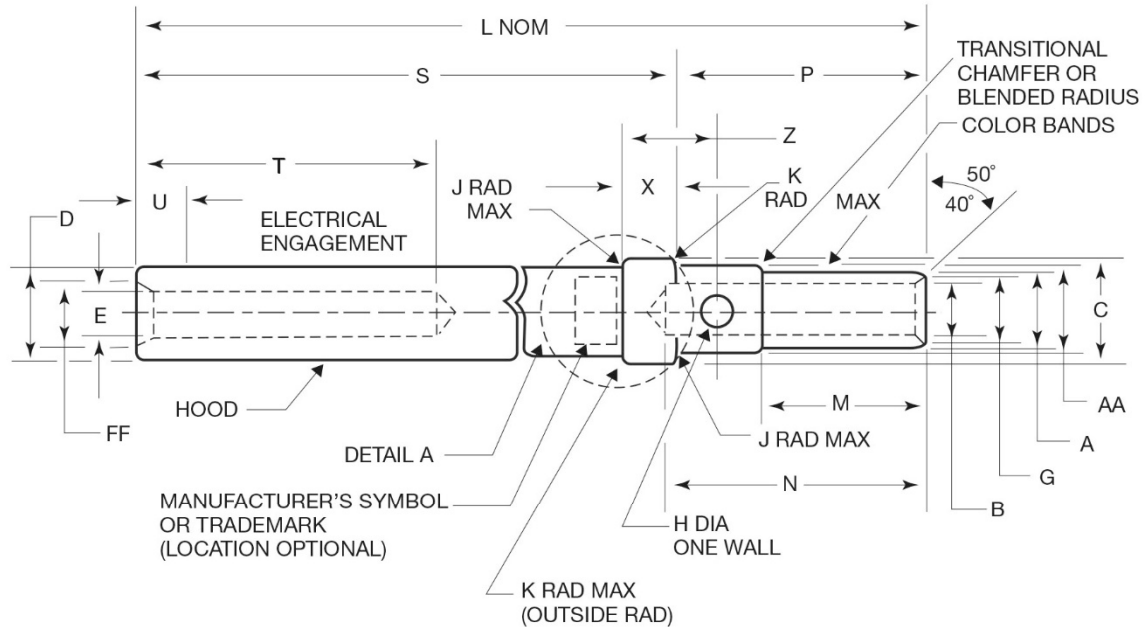
FEDERAL SUPPLY CLASS
5999

RATIONALE

REVISION REQUIRED TO ADD AS22520/7-14 TOOL 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.



SOCKET SIDE (ALL BIN CODES) AND WIRE BARREL SIDE (BIN 603 & 604)

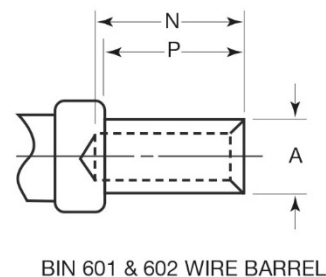
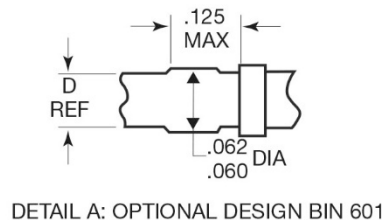
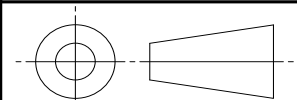


FIGURE 1 - AS39029/94 SOCKET CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/94D/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

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

AS39029™/94
SHEET 1 OF 3

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Documents

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TABLE 1 - CONTACT DIMENSIONS

BIN CODE	A DIA	B DIA	C DIA	D DIA	E DIA (MIN ONLY)	G DIA	H DIA	J RAD	K RAD	L (REF)
601 (22-22)	.052 .050	.0375 .0340	.070 (1.78) .068 (1.73)	.061 .059	.031	.047 .041	.022 .018	.002	.003	.650 (16.51) .630 (16.00)
602 (20-20)	.068 .065	.0460 .0430	.084 (2.13) .082 (2.08)	.074 .068	.0415	.058 .052	.033 .025	.002	.003	.918 (23.32) .898 (22.81)
603 (16-16)	.103 .101	.068 .066	.134 (3.40) .130 (3.30)	.113 .106	.064	.090 .080	.042 .036	.003	.005	.965 (24.51)
604 (12-12)	.151 .148	.102 .098	.190 (4.83) .186 (4.72)	.161 .158	.0955	.140 .130	.042 .036	.003	.005	.965 (24.51)

TABLE 1 - CONTACT DIMENSIONS (CONTINUED)

BIN CODE	M MIN	N	P	S	T MIN	U MAX	X	Z	AA DIA	FF MIN
601 (22-22)	N/A	.165 .135	.237 .231	.410 .401	.280	.043	.034 .029	.161 .132	--	.043
602 (20-20)	N/A	.190 .150	.165 .155	.750 .745	.325	.041	.034 .029	.069 .054	N/A	.056
603 (16-16)	.150	.290 .250	.257 .245	.718 .710	.468	.060	.048 .044	.083 .069	.111 .107	.086
604 (12-12)	.150	.290 .250	.257 .245	.718 .710	.468	.060	.048 .044	.083 .069	.158 .155	.116

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
601	BLUE	BLACK	BROWN	22	22	A	B
602	BLUE	BLACK	RED	20	20	A	B
603	BLUE	BLACK	ORANGE	16	16	A	B
604	BLUE	BLACK	YELLOW	12	12	A	B

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL
601	M22520/2-01	M22520/2-23	M81969/1-01	M81969/1-01
602	M22520/2-01	M22520/2-08	M81969/1-02	M81969/1-02
	M22520/7-01	M22520/7-02		
	M22520/7-01	M22520/7-14		
603	M22520/1-01	M22520/1-02 BLUE	M81969/1-03	M81969/1-03
	M22520/7-01	M22520/7-03		
604	M22520/1-01	M22520/1-11	N/A	M81969/28-02

TABLE 4 - CONTACT ENGAGEMENT AND SEPARATION FORCES

BIN CODE	MATING END SIZE	INITIAL			AFTER CONDITIONING		
		MINIMUM SEPARATION FORCE (OUNCES)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES)	MAXIMUM ENGAGEMENT FORCE (OUNCES)	MINIMUM SEPARATION FORCE (OUNCES)	MAXIMUM AVERAGE ENGAGEMENT FORCE (OUNCES)	MAXIMUM ENGAGEMENT FORCE (OUNCES)
		MINIMUM DIAMETER AS31971 PIN	MAXIMUM DIAMETER AS31971 PIN	MAXIMUM DIAMETER AS31971 PIN	MINIMUM DIAMETER AS31971 PIN	MAXIMUM DIAMETER AS31971 PIN	MAXIMUM DIAMETER AS31971 PIN
601	22	0.75	2.50	3.0	0.60	2.75	4.0
602	20	0.75	5.0	6.0	0.60	6.00	7.0
603	16	2.00	9.0	12.0	1.0	11.5	15.0
604	12	3.00	12.0	15.0	2.0	14.5	18.0

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDED PART NUMBER(S)
M39029/94-601	601	
M39029/94-602	602	
M39029/94-603	603	
M39029/94-604	604	