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REV.
C

AS39029™/86

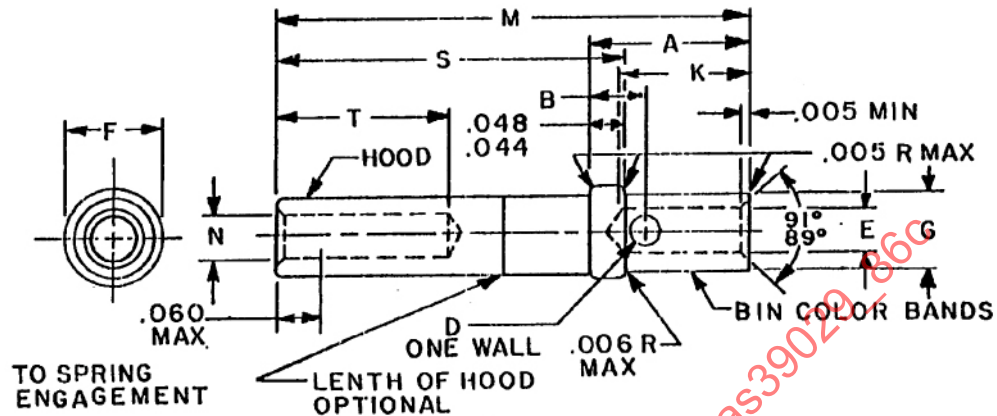
FEDERAL SUPPLY CLASS
5999

RATIONALE

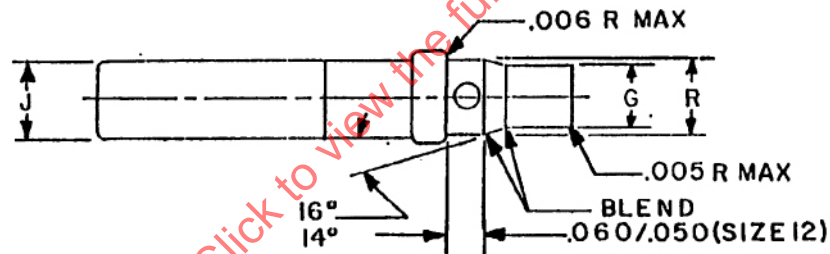
REVISION REQUIRED TO UPDATE THE TOOL TABLE, ESTABLISH QUALIFICATION TEST WIRE, AND CORRECT MINOR TECHNICAL ERRORS AS NEEDED.

NOTICE

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



Size 16S - 16 Bin Codes 510 thru 513
Size 16 - 16 Bin Codes 462 thru 465

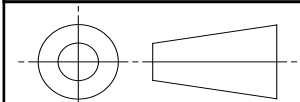


Size 12 - 12 Bin Codes 466 thru 469

FIGURE 1 - SOCKET CONTACT

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/86C>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP
REMOVABLE, THERMOCOUPLE (FOR AS50151 AS34501
SERIES AND MIL-DTL-83723 SERIES II CONNECTORS)

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TABLE 1 - DIMENSIONS

BIN CODE	A	B	D DIA	E DIA	F DIA	G DIA	J DIA	K	M REF	N DIA	R	S	T
510 THRU 513				.068 (1.73)	.133 (3.38)	.103 (2.62)	.113 (2.87)		.911 (23.14)	.068 (1.72)	N/A	.666 (16.92) .656 (16.66)	.560 (14.22) .399 (10.13)
462 THRU 465	.300 (7.62) .290 (7.37)	.082 (2.08) .070 (1.78)	.042 (1.07) .036 (0.91)	.066 (1.68)	.130 (3.30)	.101 (2.57)	.106 (2.69)	.280 (7.11) .250 (6.35)		.065 (1.65)		.856 (21.74)	.560 (14.22) .430 (10.92)
466 THRU 469				.102 (2.59) .098 (2.49)	.189 (4.80) .186 (4.72)	.150 (3.81) .147 (3.73)	.161 (4.09) .154 (3.91)		1.101 (27.97)	.100 (2.54) .097 (2.46)	.160 (4.06) .155 (3.94)	.846 (21.49)	.710 (18.03) .587 (14.91)

TABLE 2 - DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			MATING END SIZE	WIRE BARREL SIZE	TYPE	CLASS
	1ST	2ND	3RD				
510	GREEN	BROWN	BLACK	16S	16	SEE TABLE 4 FOR COMPOSITION	B
511	GREEN	BROWN	BROWN	16S	16		B
512	GREEN	BROWN	RED	16S	16		B
513	GREEN	BROWN	ORANGE	16S	16		B
462	YELLOW	BLUE	RED	16	16		B
463	YELLOW	BLUE	ORANGE	16	16		B
464	YELLOW	BLUE	YELLOW	16	16		B
465	YELLOW	BLUE	GREEN	16	16		B
466	YELLOW	BLUE	BLUE	12	12		B
467	YELLOW	BLUE	VIOLET	12	12		B
468	YELLOW	BLUE	GRAY	12	12		B
469	YELLOW	BLUE	WHITE	12	12		B

TABLE 3 - TOOLS

BIN CODE	BASIC CRIMPING TOOL	POSITIONER	INSTALLING TOOL	REMOVAL TOOL (WIRED)	REMOVAL TOOL (UNWIRED)
510 511 512 513	M22520/1-01	M22520/1-02 BLUE			
462 463 464 465	M22520/7-01	M22520/7-03	M81969/8-207 M81969/14-03	M81969/8-208 M81969/14-03	M81969/30-06
466 467 468 469	M22520/1-01	M22520/1-02 YELLOW	M81969/8-209 M81969/14-04	M81969/8-210 M81969/14-04	M81969/30-07



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TABLE 4 - MATERIALS, PLATING, AND TENSILE STRENGTH

BIN CODE	MATERIALS	PLATING	TENSILE STRENGTH 1/					
			WIRE SIZE	AXIAL LOAD (LB)	WIRE SIZE	AXIAL LOAD (LB)	WIRE SIZE	AXIAL LOAD (LB)
510	JN	NONE	16	33	18	23	20	14
511	KN	NONE						
512	KP	NONE						
513	JP	CADMIUM PLATE 2/						
462	JN	NONE	16	33	18	23	20	14
463	KN	NONE						
464	KP	NONE						
465	JP	CADMIUM PLATE 2/						
466	JN	NONE	12	85	14	53	16	33
467	KN	NONE						
468	KP	NONE						
469	JP	CADMIUM PLATE 2/						

1/ APPLIES TO TYPE 1 WIRE PER MIL-DTL-5846.

2/ CHROMATE CLEAR COAT.

TABLE 5 - PART NUMBER AND BIN CODE

PART NUMBER	BIN CODE	SUPERSEDED
M39029/86-510	510	--
M39029/86-511	511	--
M39029/86-512	512	--
M39029/86-513	513	--
M39029/86-462	462	M39029/861616C1
M39029/86-463	463	M39029/861616C2
M39029/86-464	464	M39029/861616C3
M39029/86-465	465	M39029/861616C4
M39029/86-466	466	M39029/861212C1
M39029/86-467	467	M39029/861212C2
M39029/86-468	468	M39029/861212C3
M39029/86-469	469	M39029/861212C4

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS39029.

1. DESIGN:

CONTACTS SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLES 1 AND 2. DIMENSIONS ARE IN INCHES. METRIC EQUIVALENTS IN PARENTHESES ARE FOR GENERAL INFORMATION ONLY AND ARE BASED ON 1 INCH = 25.4 MM. DIMENSIONS APPLY AFTER PLATING. THE K BORE SHALL NOT BREAK THROUGH TO THE T BORE. THE MAXIMUM ALLOWABLE GAP BETWEEN THE HOOD AND THE BODY OF THE CONTACT IS .010 INCH. UNLESS OTHERWISE SPECIFIED, SURFACE FINISH SHALL BE 63 MICROINCHES.

2. TOOLS:

TOOLS REQUIRED FOR CRIMPING CONTACTS TO THE WIRE/CABLE AND THE INSTALLING/REMOVAL FROM THE CONNECTOR SHALL BE IN ACCORDANCE WITH TABLE 3.

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