

RATIONALE

REVISE TO REMOVE GOVERNMENT JARGON, UPDATE REFERENCES, ALIGN SPECIFICATION WITH SAE GUIDELINES, ADD THE COMMERCIAL CRIMP TOOL OPTIONS FOR THE INNER CONTACT, AND TO ADD APPLICATION NOTES INDICATING CONTACT IS NOT RECOMMENDED FOR NEW DESIGN AND CONTACT PIECE PARTS ARE NOT RECOMMENDED TO BE MIXED BETWEEN QPL SOURCES.

NOTICE

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

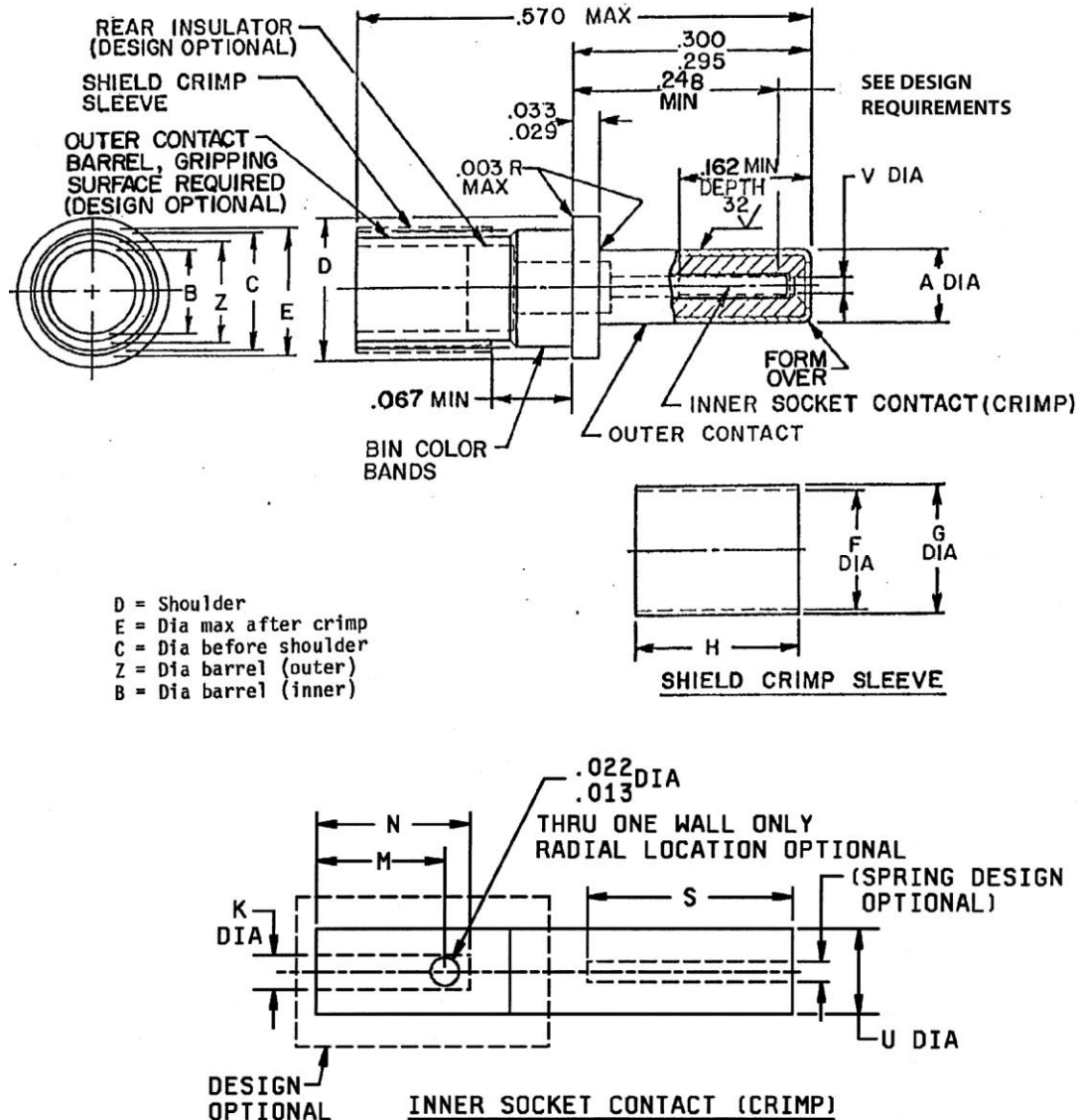
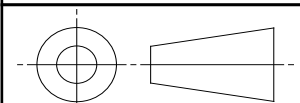


FIGURE 1 - PIN CONTACTS

For more information on this standard, visit
<https://www.sae.org/standards/content/AS39029/102A/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP
REMOVABLE, COAXIAL, SIZE 12
(FOR MIL-DTL-38999 SERIES I, II, III AND IV
CONNECTORS)

AS39029™/102
SHEET 1 OF 6

REV. A

Documents

TABLE 1 - DIMENSIONS

BIN CODE	A DIA	B DIA MIN	C DIA	D DIA	E DIA MAX	F DIA MIN	G DIA MAX	H	K DIA MIN	M	N	S MIN	U	V	Z DIA MAX
558	.095 (2.41)	.066 (1.68)	.151 (3.84)	.182 (4.62)	.156 (3.96)	.127 (3.23)	.169 (4.29)	.180 (4.57)	.022 (.560)	.063 (1.60)	.084 (2.13)	.135 (3.43)	.0350 (.889)	.027 (.686)	.110 (2.79)
	.093 (2.36)		.148 (3.76)	.179 (4.55)				.170 (4.32)		.088 (2.24)	.100 (2.54)		.0310 (.787)	.025 (.635)	

TABLE 2 - DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CONTACT CAVITY SIZE	CABLE ACCOMMODATED.	TYPE	CLASS
	1ST	2ND	3RD				
558	GREEN	GREEN	GRAY	12	M17/113-RG316 M17/094-RG179	D	B

TABLE 3 - TOOLS

BIN CODE	INNER CONTACT TOOLING <u>1/</u>	OUTER CONTACT TOOLING		INSTALLING TOOL	REMOVAL TOOL
	BASIC CRIMP TOOL/CONTACT POSITIONER COMBINATIONS	BASIC CRIMPING TOOL	DIE		
558	DEUTSCH-BASIC TOOL - MH992, POSITIONER - K1303S <u>2/</u>	M22520/5-01	M22520/5-03	M81969/8-09 OR M81969/14-04	M81969/8-10 OR M81969/14-04
	TRI-STAR-BASIC TOOL - M22520/2-01, POSITIONER - K1430 <u>2/</u>				
	AMPHENOL-BASIC TOOL - MH992, POSITIONER - K1360 <u>2/</u>				

1/ INNER CONTACT MAY BE CRIMPED OR SOLDERED2/ SEE REQUIREMENT NOTE 8 AND APPLICATION NOTE 3.

TABLE 4 - CONTACT RESISTANCE

BIN CODE	CABLE ACCOMMODATED	MAXIMUM VOLTAGE DROP (MILLIVOLTS)						MAXIMUM AVERAGE VOLTAGE DROP
		25° C +3°, -0°		25° C +3°, -0° <u>1/</u>		200° C +3°, -0°		
		INNER	OUTER	INNER	OUTER	INNER	OUTER	
558	M17/094-RG179	55	75	66	90	94	128	N/A
	M17/113-RG316	120	70	144	84	204	119	N/A

1/ AFTER CONDITIONING

TABLE 5 - LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY) AND TENSILE STRENGTH

BIN CODE	CABLE ACCOMMODATED	MAXIMUM CONTACT RESISTANCE (MILLIOHMS)		TENSILE LOAD (POUNDS MINIMUM)	
		INITIAL	AFTER CONDITIONING	INNER CONTACT	OUTER CONTACT
558	M17/094-RG179	55	66	10.0	15.0
	M17/113-RG316	120	144	3.5	15.0

	AEROSPACE STANDARD	AS39029™/102 SHEET 2 OF 6	REV. A
	(R) CONTACTS, ELECTRICAL CONNECTOR, PIN, CRIMP REMOVABLE, COAXIAL, SIZE 12 (FOR MIL-DTL-38999 SERIES I, II, III AND IV CONNECTORS)		