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REV.
A

AS39029™/80

FEDERAL SUPPLY CLASS
5999

RATIONALE

AS39029/80A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR PROCURING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF: SAE AS39029

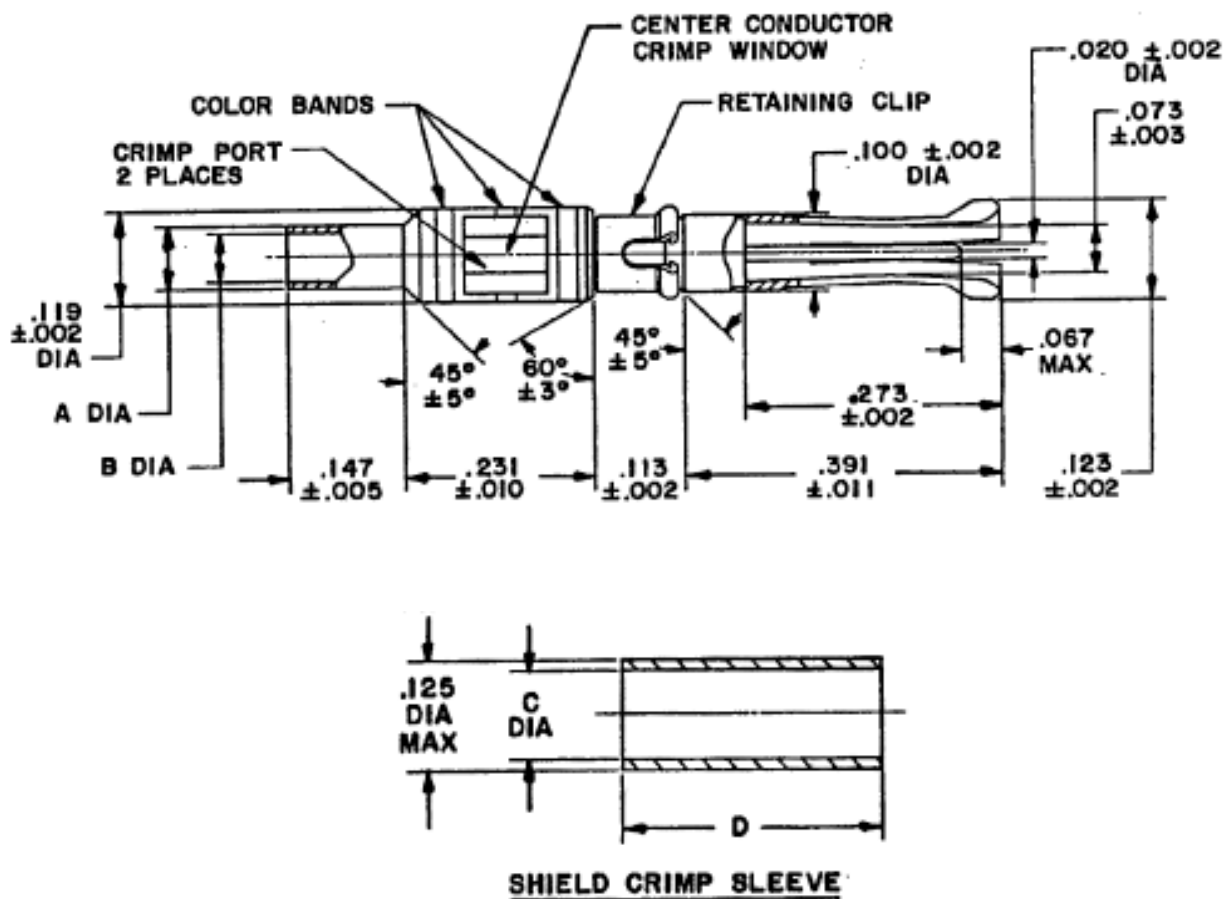
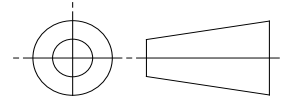


FIGURE 1 - AS39029/80 SHIELDED SOCKET CONTACT

SAE values your input. To provide feedback on this Technical Report, please visit <http://standards.sae.org/AS39029/80A>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS39029



AEROSPACE STANDARD

(R) CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE, SHIELDED
(FOR MIL-DTL-28748/10 CONNECTORS)

AS39029™/80
SHEET 1 OF 4

REV.
A

Documents

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TABLE 1 - CONTACT DIMENSIONS

BIN CODE	A ± .002 (.05)	B ± .002 (.05)	C ± .0010 (.025)	D ± .005 (.13)
438	.087 (2.21)	.070 (1.78)	.1065 (2.705)	.305 (7.75)
439	.087 (2.21)	.045 (1.14)	.1035 (2.629)	.250 (6.35)

TABLE 2 - MARKING AND DESIGN CHARACTERISTICS

BIN CODE	COLOR BANDS			CABLE ACCOMMODATED	CONTACT CAVITY SIZE	TYPE	CLASS
	1 ST	2 ND	3 RD				
438	YELLOW	ORANGE	GRAY	M17/094-RG179 M17/113-RG316	16	D	A
439	YELLOW	ORANGE	WHITE	M17/093-RG178	16	D	A

TABLE 3 - TOOL REQUIREMENTS

BIN CODE	CONTACT CRIMPING TOOL	CABLE ACCOMMODATION	INSTALLING TOOL	REMOVAL TOOL
438	<u>1/</u>	M17/094-RG179 M17/113-RG316	M81969/17-04	<u>2/</u>
439	<u>1/</u>	M17/093-RG178	M81969/17-04	<u>2/</u>

- 1/ USE DANIELS MANUFACTURING COMPANY TOOL HX3-530, ASTRO TOOL COMPANY TOOL AL115 OR EQUIVALENT. TOOL CRIMPS BOTH INNER AND OUTER CONTACTS SIMULTANEOUSLY.
- 2/ DANIELS MANUFACTURING COMPANY TOOL DRK597, ASTRO TOOL COMPANY TOOL ATH 2101 OR EQUIVALENT

TABLE 4 - PART NUMBERS

AS39029 PART NUMBER	BIN CODE	SUPERSEDES PART NUMBER(S)
M39029/80-438	438	M39029/80-16A
M39029/80-439	439	M39029/80-16B

TABLE 5 - PERFORMANCE REQUIREMENTS

TENSILE STRENGTH (POUNDS)		CONTACT ENGAGING AND SEPARATION FORCES (oz)				CONTACT RESISTANCE (MILLIVOLTS)				CABLE USED
						25 °C + 3 °C		85 °C +3 °C – 0 °C		
INNER CONTACT	OUTER CONTACT	INNER CONTACT		CONTACT ASSEMBLY 1/		INNER CONTACT	OUTER CONTACT	INNER CONTACT	OUTER CONTACT	
4.0 MIN	10 MIN	.4 MIN	7.0 MAX	1.5 MIN	20.0 MAX	8.0 MAX	4.0 MAX	12.0 MAX	4.0 MAX	RG316
						12.0 MAX		24.0 MAX		RG179

1/ WHEN MATED WITH AS39029/79 CONTACT

	AEROSPACE STANDARD		AS39029™/80 SHEET 2 OF 4	REV. A
	(R) CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED (FOR MIL-DTL-28748/10 CONNECTORS)			

 **Documents**

