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 <p>The Engineering Society For Advancing Mobility Land Sea Air and Space® INTERNATIONAL</p> <p>400 Commonwealth Drive, Warrendale, PA 15096-0001</p>	<p>AEROSPACE STANDARD</p> <p>CONTACTS, ELECTRICAL CONNECTOR, SOCKET, CRIMP REMOVABLE, SHIELDED, (FOR MIL-C-26482 SERIES 1 CONNECTORS)</p>	<p>AS39029/26</p> <p>SHEET 1 OF 8</p>

THE COMPLETE REQUIREMENTS FOR PROCURING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF SPECIFICATION MIL-C-39029.

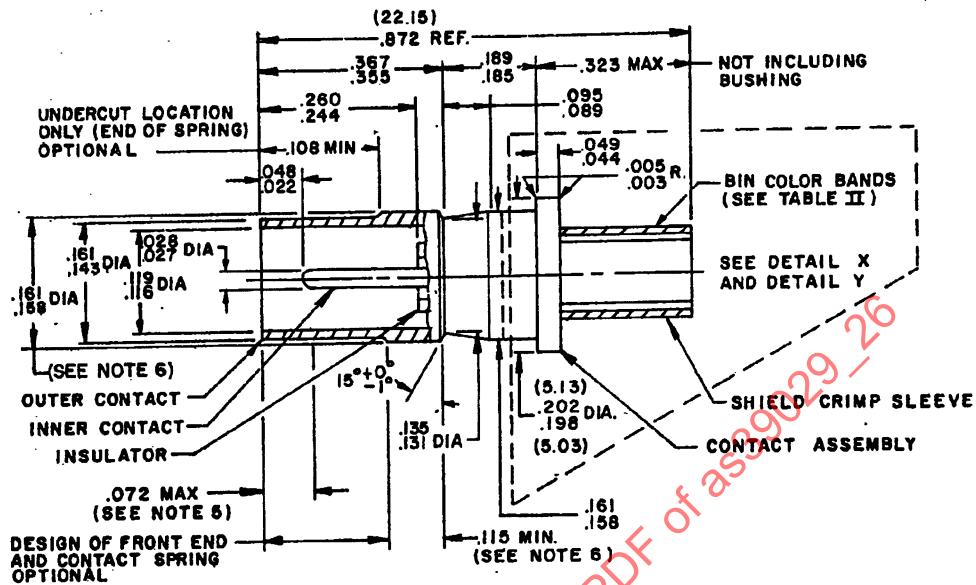
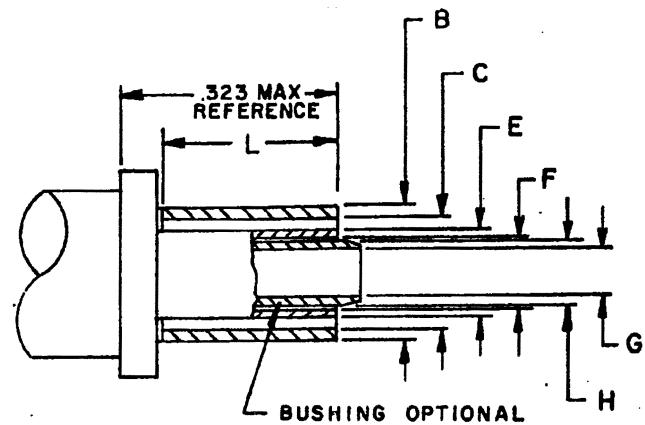
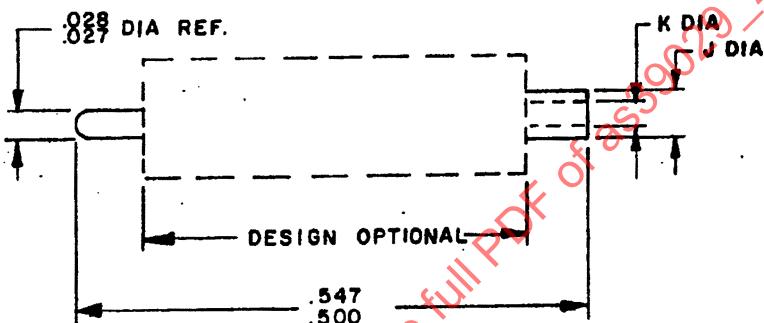


FIGURE 1. CONNECTOR CONTACT.

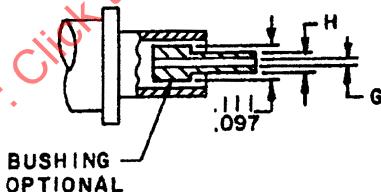
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DETAIL X WIRE TERMINATION END
BIN CODES 207 & 209



INNER CONTACT



DETAIL Y WIRE TERMINATION END
BIN CODE 208

FIGURE 1. CONNECTOR CONTACT. - CONTINUED

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BIN code	B	C	E	F	G	H	J	K	L
207	.201 (5.11)	.161 (4.09)	.136 (3.45)	.1150 (2.92)	.069 (1.75)	.106 (2.69)	.055 (1.40)	.030 (.76)	.270 (6.86)
	.189 (4.80)	.151 (3.84)	.126 (3.20)	.1065 (2.70)	.065 (1.65)	.102 (2.59)	.045 (1.14)	.020 (.51)	.230 (5.84)
208	---	---	.136 (3.45)	.1150 (2.92)	.047 (1.19)	.076 (1.93)	.055 (1.40)	.030 (.76)	.330 (8.38)
			.126 (3.20)	.1065 (2.70)	.037 (.94)	.066 (1.68)	.045 (1.14)	.020 (.51)	.290 (7.37)
209	.201 (5.11)	.161 (4.09)	.136 (3.45)	.1150 (2.92)	.058 (1.47)	.106 (2.69)	.067 (1.70)	.044 (1.12)	.270 (6.86)
	.189 (4.80)	.151 (3.84)	.126 (3.20)	.1065 (2.70)	.055 (1.40)	.102 (2.59)	.057 (1.45)	.034 (.86)	.230 (5.84)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
3. Metric equivalents are in parentheses for overall length and diameter only.
4. Dimensions shown apply after plating.
5. Indicated dimension to be from front end of contact to point of engagement of socket and a .113 (2.87 mm) diameter square end pin.
6. Indicated diameter applies for indicated length.

FIGURE 1. CONNECTOR CONTACT. - CONTINUED

BIN code	A	B	C		
207	.468	.250	.156		
209					
208	.625	.250	.156		

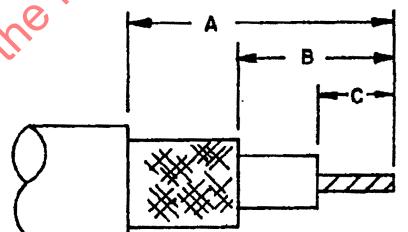
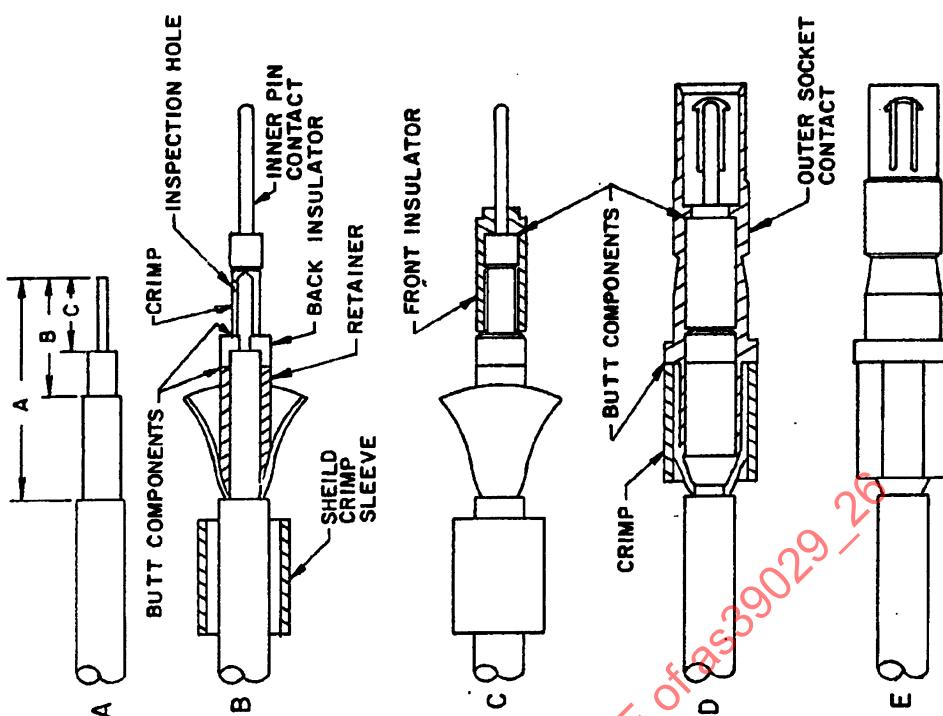


FIGURE 2. CABLE STRIPPING DIMENSIONS.



ASSEMBLY INSTRUCTIONS

Strip cable as illustrated. Ends must be cut cleanly and at right angles to the axial plane of the cable. The cable must not be deformed while making cuts.

1. Slide shield crimp sleeve back over cable jacket.
2. Slide retainer over the cable core and under the cable shield. Retainer must bottom against cable shield.

3. Slide back insulator over center conductor and cable core until it butts against the retainer.

4. Slide inner pin contact over cable center conductor. Cable center conductor must be visible through inspection hole in the inner pin contact. Contact must butt against the back insulator.

5. Crimp inner pin contact using crimp tool and positioner listed in table III.

- c. Slide front insulator, large end first, over the inner pin contact until insulator seats against inner pin contact shoulder.
- D 1. Slide outer socket contact over insulator and retainer assembly. Outer socket contact must butt against front insulator.

2. Bring shield crimp sleeve forward over cable shield and butt against outer socket contact shoulder.

3. Crimp shield crimp sleeve using tool and dies listed in table IV. E Illustrates final assembly.

FIGURE 3. ASSEMBLY PROCEDURE.

REQUIREMENTS:

Design and construction:

Dimensions and configuration: See figure 1 and tables I and II.

Tools: See table III.

Assembly procedure: See figure 3. Manufacturer's recommended shipping instructions shall be shipped with the unit package.

Mating contact: See table I.

Cable stripping: See figure 2.

Cable accommodation: See table I.

Low signal level contact resistance (inner contact only): See table IV.

Contact resistance: See table V.

Contact engagement and separation force: The engagement depth shall be as encountered in normal service. The test pins shall be in accordance with MS3197, except the diameters shall be as specified in table VI and surface roughness shall not exceed 3.

Crimp tensile strength (inner and outer contact crimp joint): See table VII.

Vibration: Method 2005 of MIL-STD-1344, test condition IV.

Shock (specified pulse): Method 2004 of MIL-STD-1344, test condition A.

Dielectric withstanding voltage: Applied between inner and outer contact: See table VIII.

Part number: See table IX.

QPL evaluating activity: Naval Avionics Center, Code D-914, Indianapolis, Indiana 46218.

International interest: NEPR 57.

TABLE I. REFERENCE DATA.

BIN code	Cable data					Mating contact M39029/25-
	Cable accommodated	O.D. of jacket	Number of shields	Dielectric O.D.	Inner conductor size	
207	M17/119-RG174	.100	1	.060	No. 26 AWG 7/.0067	204
	M17/094-RG179	.105	1	.063	No. 30 AWG 7/.004	
	M17/113-RG316	.102	1	.060	No. 26 AWG 7/.0067	
208	M17/093-RG178	.071	1	.034	No. 30 AWG 7/.004	205
209	No. 22 shielded MIL-C-27500	.094 max	1	.048	No. 22 AWG 19/.0063	206

TABLE II. DESIGN CHARACTERISTICS.

Dash No. and BIN code	Color bands			Contact cavity size	Type	Class
	1st	2nd	3rd			
207	Red	Black	Violet	12	D	A
208	Red	Black	Gray	12		
209	Red	Black	White	12		