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AS39029/13

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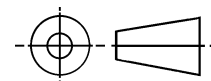
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THIRD ANGLE PROJECTION



ISSUED 2000-06

PREPARED BY SAE SUBCOMMITTEE AE-8C1

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AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE, SHIELDED,
(FOR MIL-C-81511 SERIES 1 CONNECTORS)

AS39029/13
SHEET 1 OF 7

Technical drawing of a shield crimp sleeve assembly, showing side and end views with dimensions and labels.

Top View (Main Assembly):

- Overall length: (26.62) 1.048(REF.)
- Dimensions from left: .686, .674, .215, .203, .020, .013, .040, .035, .028, .022, .115, .107.
- Angles: 33°, 37°.
- Labels: U, CRIMP AREA, SEE DETAIL B, CC, A, B.
- Feature: MATING END.
- Feature: MANUFACTURER'S SYMBOL OR TRADEMARK (LOCATION OPTIONAL).
- Feature: OUTER CONTACT.
- Feature: SEE DETAIL A.
- Feature: BIN COLOR BANDS (SEE TABLE II).
- Feature: 47° 45°.
- Feature: 11° 10°.
- Feature: .002 .000R.
- Feature: DD.
- Feature: C.

Bottom View (Main Assembly):

- Dimensions from left: .200, .195, .579, .569, .165, .157, .389, .369, .086, .080.
- Labels: INNER CONTACT, FULL RADIUS, .039, .035, .0155 DIA, .0140 DIA, EE, CRIMP AREA, INSULATOR, FF, AA, BB.

DETAIL A: INNER CONTACT AND INSULATOR SUBASSEMBLY

DETAIL B: SHIELD CRIMP SLEEVE

Dimensions for Detail B: .250, .240, HH, HHH.

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) 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.

FIGURE 1. CONNECTOR CONTACT.

TABLE I. DIMENSIONS.

BIN code	A	B	C	D	E MAX DIA	AA DIA	BB MIN DIA	CC DIA	DD DIA	EE DIA	FF MIN DIA	HH MIN DIA	HHH MAX DIA	U
152	.103 .101	.0910 .0885	.113 .110	.0750 .0725	.042	.081 .078	.022	.133 (3.38) .130 (3.30)	.099 .096	.068 .062	.037	.058	.087	.042 .018
153	.162 .159	.1430 .1405	.161 .158	.1210 .1175	.070	.128 .126	.022	.190 (4.83) .187 (4.75)	.145 .142	.076 .070	.067	.086	.130	.042 .018
154	.162 .159	.1430 .1405	.161 .158	.1210 .1175	.070	.128 .126	.022	.190 (4.83) .187 (4.75)	.145 .142	.076 .070	.093	.110	.130	.042 .018
155	.162 .159	.1430 .1405	.161 .158	.1210 .1175	.070	.128 .126	.022	.190 (4.83) .187 (4.75)	.145 .142	.076 .070	.108	.128	.142	.042 .018
156	.162 .159	.1430 .1405	.161 .158	.1210 .1175	.070	.128 .126	.034	.190 (4.83) .187 (4.75)	.145 .142	.089 .085	.098	.128	.142	.042 .018
157	.162 .159	.1430 .1405	.161 .158	.1210 .1175	.070	.128 .126	.034	.190 (4.83) .187 (4.75)	.145 .142	.089 .085	.098	.110	.130	.042 .018

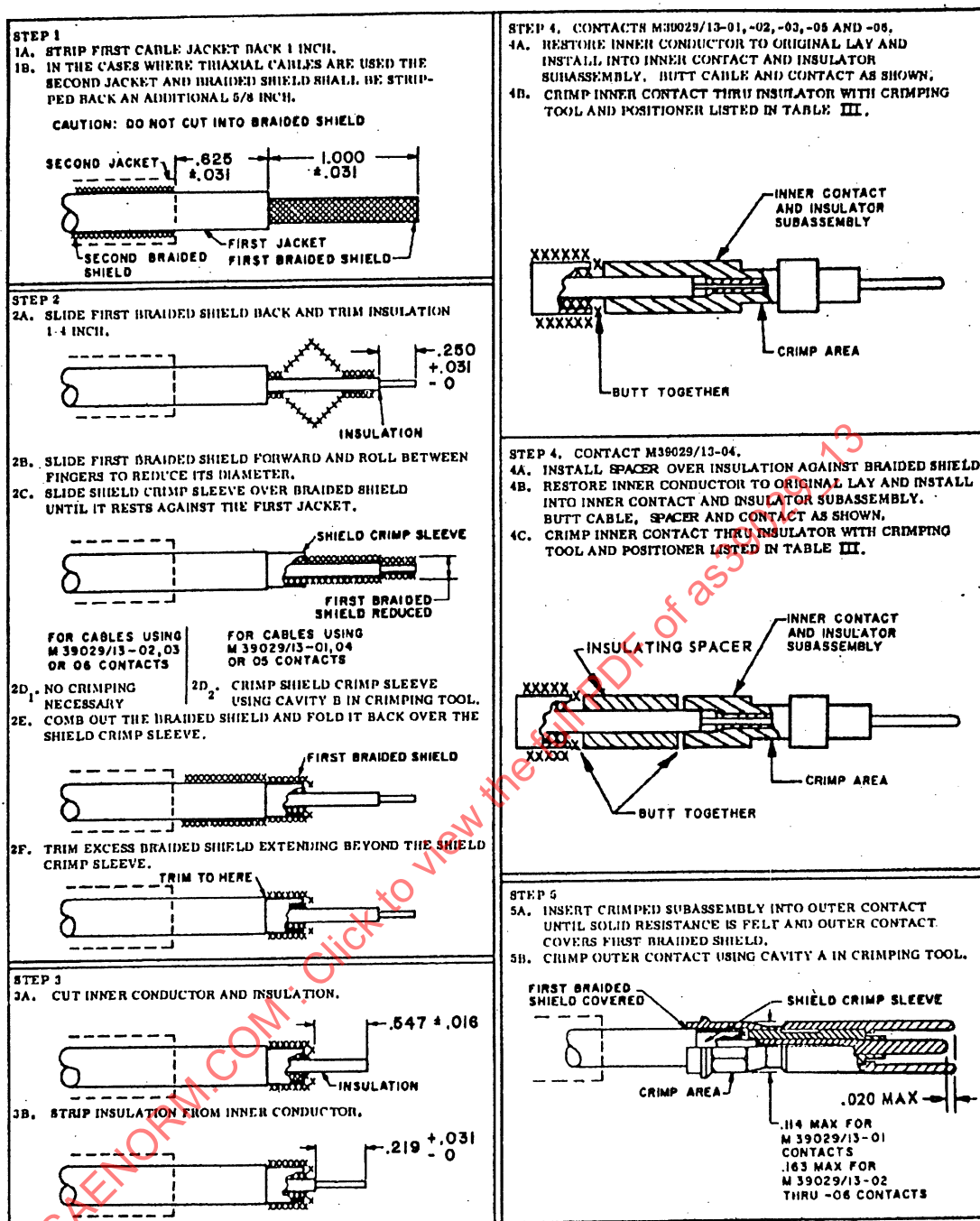


FIGURE 2. ASSEMBLY PROCEDURE.

TABLE II. DESIGN CHARACTERISTICS.

BIN code	Color bands			Contact cavity size	Cables accommodated	Type	Class
	1st	2nd	3rd				
152	Brown	Green	Red	16	RG-178A/U RG-196A/U	D	B
153	Brown	Green	Orange	12	RG-179B/U RG-187A/U RG-188A/U		
154	Brown	Green	Yellow	12	9530D5117 (RAYCHEM) <u>1/</u>		
155	Brown	Green	Green	12	RG-180B/U RG-195A/U 293-3922 (MICRODOT) <u>1/</u>		
156	Brown	Green	Blue	12	250-4070 (MICRODOT) <u>1/</u>		
157	Brown	Green	Violet	12	5022E5111 (RAYCHEM) <u>1/</u>		

1/ or equivalent

REQUIREMENTS:

Dimensions, design characteristics, and configuration: See figure 1 and tables I and II.

Tools: See table III.

Mating contact: MIL-C-39029/6.

Manufacturer's recommended assembly instruction to be shipped with unit package.

Assembly procedure: See figure 2.

Preparation of samples: Contacts shall be wired as required using wire in accordance with table II (cables accommodated column).

Contact resistance: Contact resistance at a load current of 1.0 ampere shall meet the requirements of table IV.

Contact engagement and separation forces: The contact separation and engagement forces shall meet the requirements of table IV.

Dielectric withstanding voltage: 1,000 volts, ac, rms from sea level to 110,000 feet altitude.

Tensile strength: The tensile strength shall meet the requirements of table IV.

QPL evaluating activity: Naval Weapons Support Center, Code 3074, Crane, Indiana 47522.