FEDERAL SUPPLY CLASS
5935

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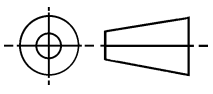

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PREPARED BY SAE SUBCOMMITTEE AE-8C1

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
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400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
SOCKET, CRIMP REMOVABLE, SHIELDED,
(FOR MIL-C-81511 SERIES 2 CONNECTORS)

AS39029/14
SHEET 1 OF 7

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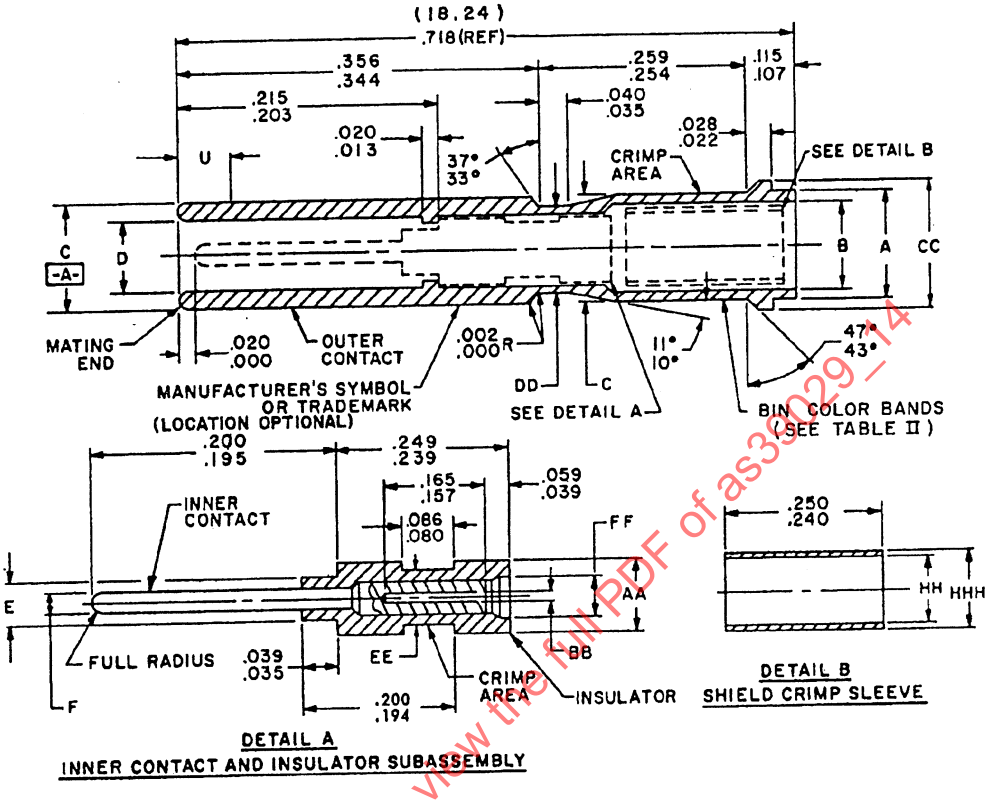
INACTIVE FOR NEW DESIGN



NOTES:
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 DIA	B DIA	C DIA	D DIA	E MAX DIA	AA DIA	BB MIN DIA	CC DIA	DD DIA	EE DIA	FF MIN DIA	HH MIN DIA	HHH MAX DIA	U
158	.103	.0910	.113	.0750	.042	.081	.022	.133 (3.38)	.099	.068	.037	.058	.087	.042
	.101	.0885	.110	.0725		.078		.130 (3.30)	.096	.062				.018
159	.162	.1430	.161	.1210	.070	.128	.022	.190 (4.83)	.145	.076	.067	.086	.130	.042
	.159	.1405	.158	.1175		.126		.187 (4.75)	.142	.070				.018
160	.162	.1430	.161	.1210	.070	.128	.022	.190 (4.83)	.145	.076	.108	.110	.130	.042
	.159	.1405	.158	.1175		.126		.187 (4.75)	.142	.070				.018
161	.162	.1430	.161	.1210	.070	.128	.022	.190 (4.83)	.145	.076	.108	.128	.142	.042
	.159	.1405	.158	.1175		.126		.187 (4.75)	.142	.070				.018
162	.162	.1430	.161	.1210	.070	.128	.034	.190 (4.83)	.145	.089	.098	.128	.142	.042
	.159	.1405	.158	.1175		.126		.187 (4.75)	.142	.085				.018
163	.162	.1430	.161	.1210	.070	.128	.034	.190 (4.83)	.145	.089	.098	.110	.130	.042
	.159	.1405	.158	.1175		.126		.187 (4.75)	.142	.085				.018

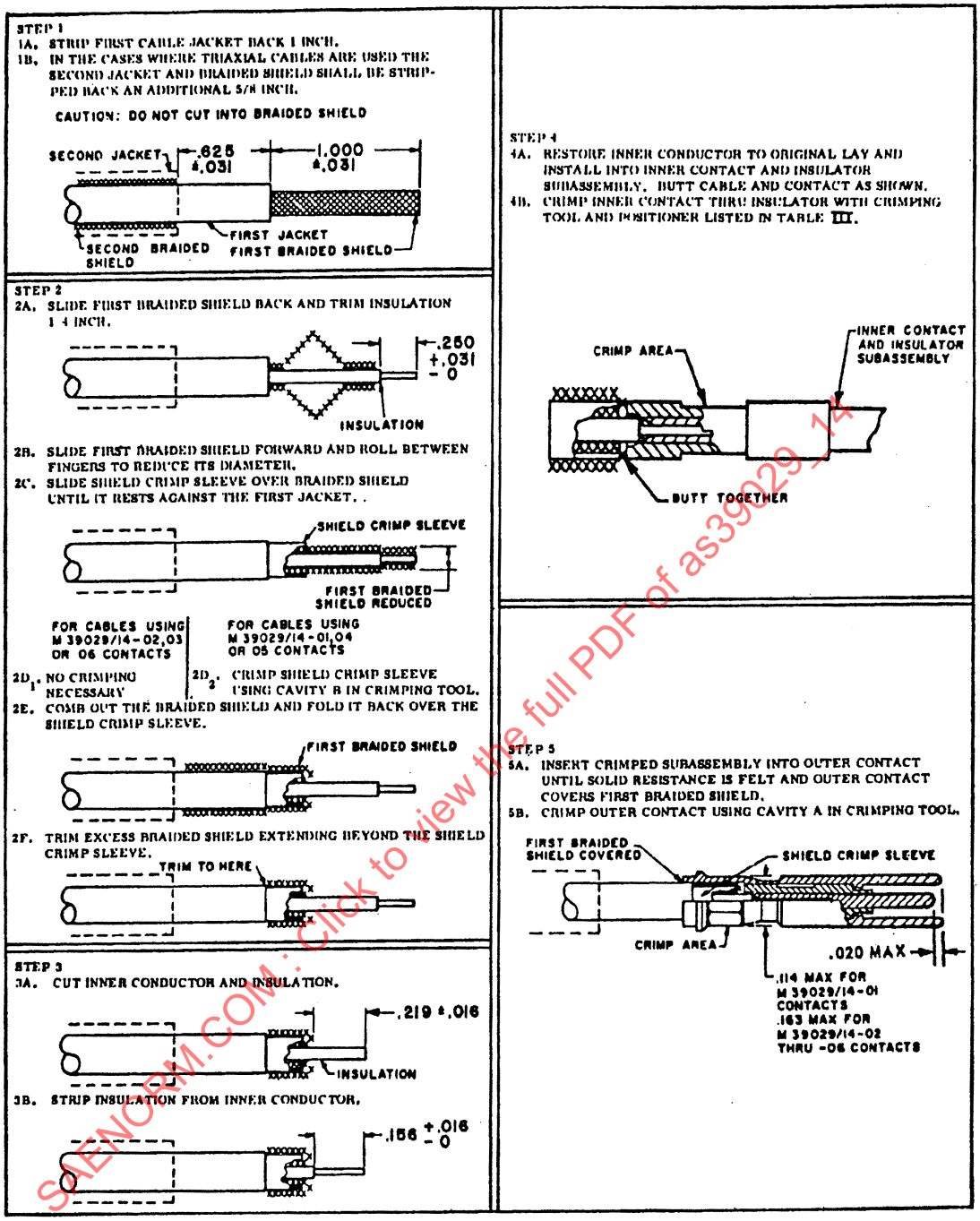


FIGURE 2. ASSEMBLY PROCEDURE.

TABLE II. DESIGN CHARACTERISTICS.

BIN code	Color bands			Contact cavity size	Cables accommodated	Type	Class
	1st	2nd	3rd				
158	Brown	Green	Gray	16	RG-178A/U RG-196A/U	D	B
159	Brown	Green	White	12	RG-179B/U RG-187A/U RG-188A/U		
160	Brown	Blue	Black	12	9530D5117 (RAYCHEM) 1/		
161	Brown	Blue	Brown	12	RG-180B/U RG-195A/U 293-3922 (MICRODOT) 1/		
162	Brown	Blue	Red	12	250-4070 (MICRODOT) 1/		
163	Brown	Blue	Orange	12	5022E5111 (RAYCHEM) 1/		

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 instructions 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.