FEDERAL SUPPLY CLASS
5935

RATIONALE

THIS DOCUMENT HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE 5-YEAR REVIEW POLICY.

NOTICE

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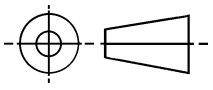
ISSUED 2000-06 REAFFIRMED 2007-01

THIRD ANGLE PROJECTION



PREPARED BY SAE SUBCOMMITTEE AE-8C1

SAE Aerospace
An SAE International Group

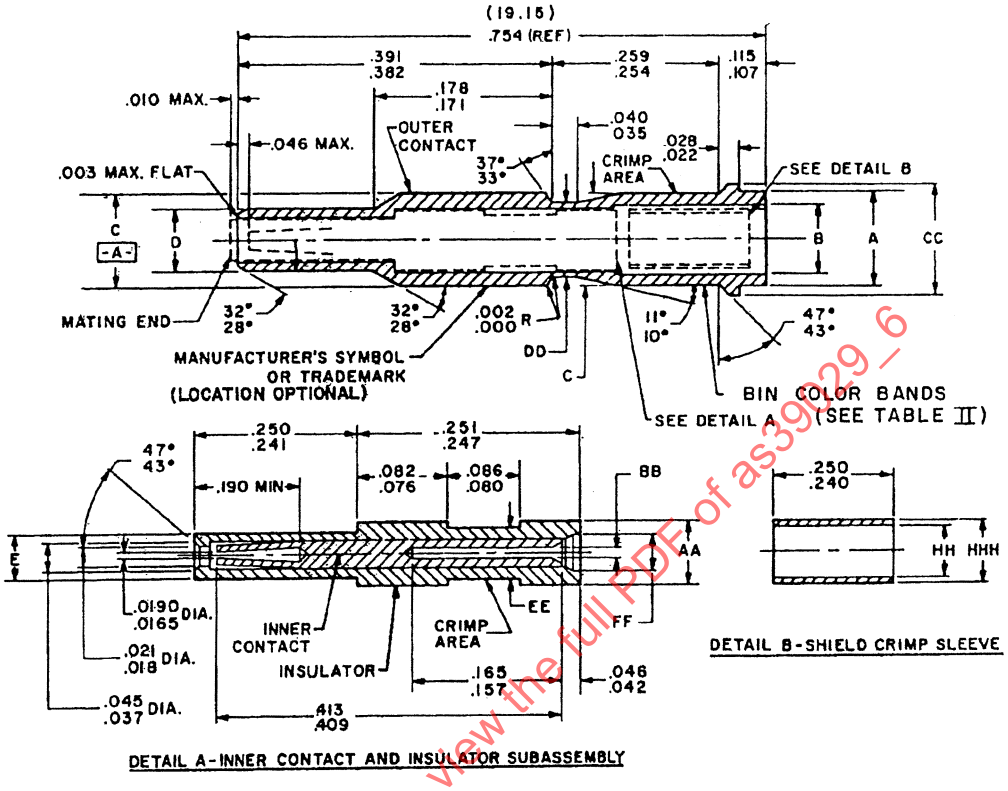
AEROSPACE STANDARD

CONTACTS, ELECTRICAL CONNECTOR,
PIN, CRIMP REMOVABLE, SHIELDED,
(FOR MIL-C-81511 SERIES 1 AND 2 CONNECTORS)

AS39029/6
SHEET 1 OF 7

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

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
120	.103	.0910	.113 (2.87)	.071	.058	.081	.022	.133	.099	.068	.037	.058	.087
	.101	.0885	.110 (2.79)	.069		.078		.130	.096	.062			
121	.162	.1430	.161 (4.09)	.1165	.093	.128	.022	.190	.145	.076	.067	.086	.130
	.159	.1405	.158 (4.01)	.1140		.126		.187	.142	.070			
122	.162	.1430	.161 (4.09)	.1165	.093	.128	.022	.190	.145	.076	.108	.110	.130
	.159	.1405	.158 (4.01)	.1140		.126		.187	.142	.070			
123	.162	.1430	.161 (4.09)	.1165	.093	.128	.022	.190	.145	.076	.108	.128	.142
	.159	.1405	.158 (4.01)	.1140		.126		.187	.142	.070			
124	.162	.1430	.161 (4.09)	.1165	.093	.128	.034	.190	.145	.089	.098	.128	.142
	.159	.1405	.158 (4.01)	.1140		.126		.187	.142	.085			
125	.162	.1430	.161 (4.09)	.1165	.093	.128	.034	.190	.145	.089	.098	.110	.130
	.159	.1405	.158 (4.01)	.1140		.126		.187	.142	.085			

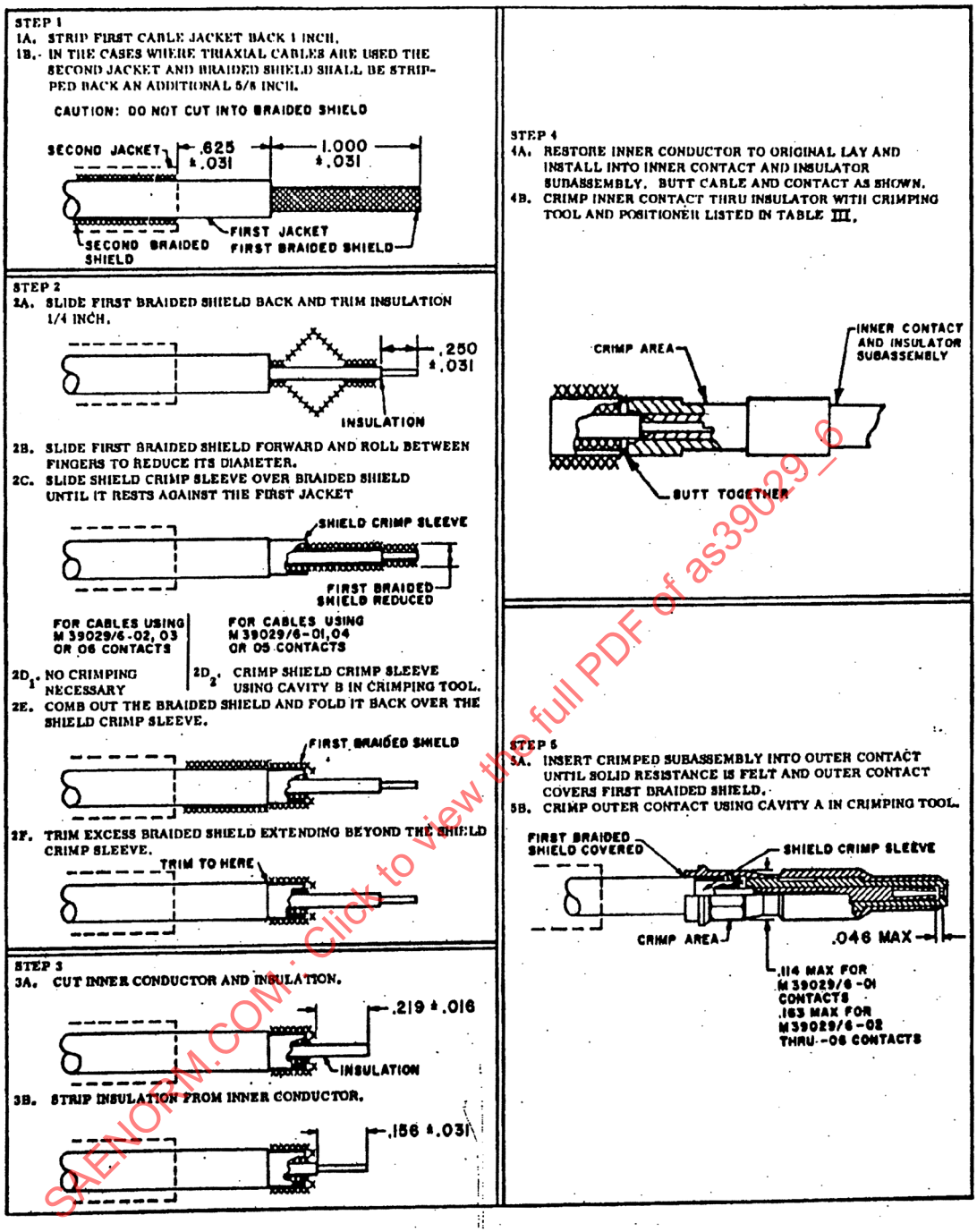


FIGURE 2. ASSEMBLY PROCEDURE.

TABLE II. DESIGN CHARACTERISTICS.

BIN code	Color bands			Contact cavity size	Cables accommodated	Type	Class
	1st	2nd	3rd				
120	Brown	Red	Black	16	RG-178A/U RG-196A/U	D	B
121	Brown	Red	Brown	12	RG-179B/U RG-187A/U RG-188A/U		
122	Brown	Red	Red	12	B530D5117 (RAYCHEM) 1/		
123	Brown	Red	Orange	12	RG-180B/U RG-195A/U 293-3922 (MICRODOT) 1/		
124	Brown	Red	Yellow	12	250-4070 (MICRODOT) 1/		
125	Brown	Red	Green	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-39029/13 and MIL-C-39029/14.

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.

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