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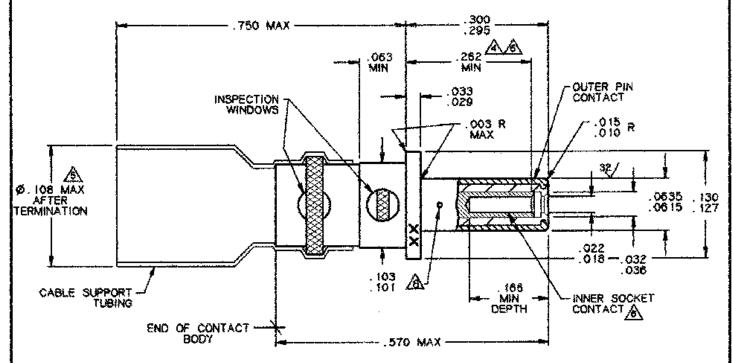
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### SPECIFICATION CONTROL DRAWING

CONTACTS, ELECTRICAL CONNECTOR, PIN SOLDERTACT®, REMOVABLE SHIELDED, SIZE 16 M39029/76 TYPE (FOR MIL-C-38999 SERIES I, II, III, IV AND MIL-C-24308 CONNECTORS)



- FIGURE 1.
- 1. DIMENSIONS ARE IN INCHES.
- 2. METRIC EQUIVALENTS CAN BE CALCULATED BASED UPON 1.00 INCH=25.4mm.
- 3. DIMENSIONS SHOWN APPLY AFTER PLATING.
- A POINT AT WHICH A SQUARE ENDED PIN OF THE SAME BASIC DIAMETER AS THE MATING CONTACT FIRST ENGAGES THE INNER CONTACT SPRING, PROVISION FOR CLEARANCE HOLE SHALL BE PROVIDED.
- SLEEVE RECOVERY: THE DIAMETER OF THE SHRINK TUBING OVER THE CABLE SHALL NOT EXCEED THE DIAMETER SHOWN.
- A MATES WITH .01557.0145 DIAMETER PIN.
- 7. CONTACT WEIGHT: 0.243 GRAMS MAXIMUM UNTERMINATED.
- THE FEATURES SHOWN ARE TWO HOLES REQUIRED TO ACCOMMODATE THE CONTACT MANUFACTURING PROCESS (REF).

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## SPECIFICATION CONTROL DRAWING

#### REQUIREMENTS:

DIMENSIONS (FIGURE 1). DESIGN CHARACTERISTICS, AND CONFIGURATIONS MEET THE REQUIREMENTS OF M39029/76 EXCEPT THAT THE TEMPERATURE RATING IS 125°C INSTEAD OF 200°C. TERMINATION IS BY SOLDERING INSTEAD OF CRIMPING. SEE TABLE 1 FOR CABLE ACCOMMODATIONS.

THIS CONTACT IS QUALIFIED TO RAYCHEM SPECIFICATIONS D-6002.
MATING CONTACT: D-602-0141 (M39029/77), D-602-0171 (M39029/78)

TOOLS: SEE TABLE II.

TABLE 1. DESIGN CHARACTERISTICS

CABLE ACCOMODATED	1/	CONTACT CAVITY SIZE	TYPE	CLASS
M17/093 - RG 178 2 M17/094 - RG 179 M17/113 - RG 318 RAYCHEM 5026A1X*X RAYCHEM 5026D1X*X RAYCHEM 5028A1X*X RAYCHEM 5030A1X*X RAYCHEM 7528A1X*X RAYCHEM 7530A1X*X	<u>2</u> /	16	D	A

- 1/ OTHER APPLICATIONS USING DIFFERENT CABLES MAY BE ACCOMMODATED. CONSULT CONTACT MANUFACTURER FOR DETAILS.
- 2/ ADDITIONAL DIELECTRIC BARRIER IS REQUIRED. (RAYCHEM P/N D-800-0018 OR EQUIVALENT).
- \* DESIGNATION CAN BE REPLACED WITH NUMBER 1 OR 2.

TABLE II. TOOLS

HEATING TOOLS	REFLECTORS	STANDARD	TANDARD FIXTURE 3/		INSTALLING	REMOVAL	
3/	3/	BASIC FIXTURE ADAPTER		FIXTURE 3/	TOOLS	TOOLS	
AA-400 SUPER HEATER	#979663 MINI SOLDER SLEEVE	AD-1319 OR AD1567	AT-1319-78 OR AT-1319-27	AD-1565	M8 1969 / 8-07 OR M8 1969 / 14-03	M8 1969/8-08 OR 1 M8 1969/14-03	
CV-5300 MINI GUN	MG-1 SOLDERSLEEVE						

3/ SEE TERMINATION PROCEDURE: RAYCHEM ES-61226

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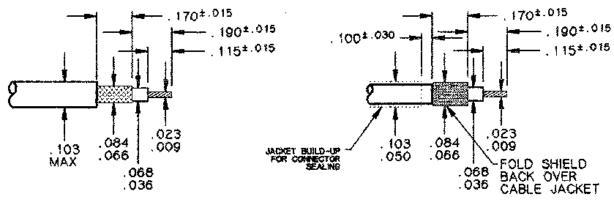
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### SPECIFICATION CONTROL DRAWING

#### ASSEMBLY INSTRUCTIONS

- 1. STRIP CABLE AS SHOWN ON FIGURE 2.
- 2. INSERT CABLE INTO CONTACT UNTIL IT IS FULLY SEATED.
- 3. HEAT CONTACT WITH APPROPRIATE TOOLS AS SHOWN ON TABLE II UNTIL SOLDER MELTS AND FLOWS AND STRAIN RELIEF TUBING CONFORMS TO CABLE.
- 4. SEE TABLE I FOR CABLE ACCOMMODATION.

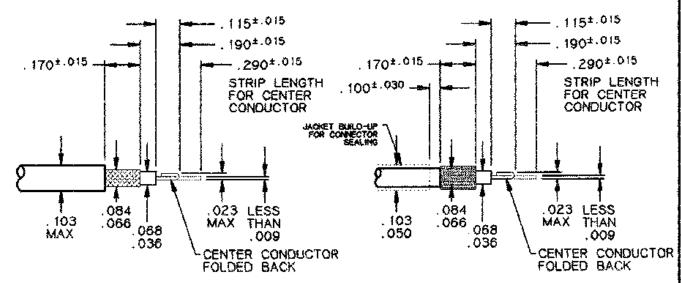
#### PREPARATION OF COAXIAL CABLE: 30 AWG AND LARGER CENTER CONDUCTOR



CABLE PREPARATION FOR STRAIGHT SHIELD

CABLE PREPARATION FOR FOLDBACK SHIELD

#### PREPARATION OF COAXIAL CABLE: 32 AWG AND SMALLER CENTER CONDUCTOR



CABLE PREPARATION FOR STRAIGHT SHIELD FOLDBACK CENTER CONDUCTOR

CABLE PREPARATION FOR FOLDBACK SHIELD FOLDBACK CENTER CONDUCTOR

FIGURE 2.

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#### SPECIFICATION CONTROL DRAWING

#### PREPARATION OF COAXIAL CABLE: RG-178B/U COAXIAL CABLE

- 1. STRIP THE RG-178B/U COAXIAL CABLE AS SHOWN.
- 2. SLIP THE D-600-0018 DIELECTRIC BARRIER BETWEEN THE SHIELD BRAID AND THE CABLE DIELECTRIC (FIGURE 3).

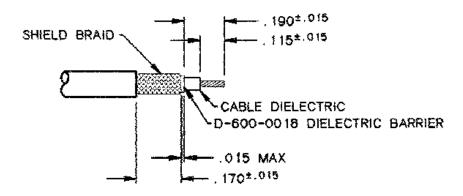


FIGURE 3

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### SPECIFICATION CONTROL DRAWING

CONTACT ENGAGEMENT AND SEPARATION FORCES (INNER SOCKET CONTACT ONLY): 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 THE FOLLOWING. AND SURFACE ROUGHNESS SHALL NOT EXCEED 3 MICROINCHES. PROVISIONS FOR CLEARANCE HOLE SHALL BE PROVIDED.

TABLE III

TEST PIN DIAMETER (INCH)	MINIMUM SE FORCE (		MAXIMUM ENGAGEMENT FORCE (OUNCES)		
	INITIAL	AFTER CONDITIONING	INITIAL.	AFTER CONDITIONING	
.0155 + .0002	N/A	N/A	12.0	14.0	
.0145 +.0000	0.5	0.4	N/A	N/A	

DIELECTRIC WITHSTANDING VOLTAGE (APPLIED BETWEEN INNER AND OUTER CONTACT): TEST VOLTAGE:

AT SEA LEVEL: 800 VAC. RMS. AT 50,000 FEET: 250 VAC. RMS.

CONTACT RESISTANCE: SEE TABLE IV.

TABLE IV. CONTACT RESISTANCE

	MAXIMUM VOLTAGE DROP (MILLIVOLTS)							
TEST CABLE	25° +3° c		25* +3* c		125° +3° C		TEST CURRENT (AMPS)	
	CONTACT		CONTACT		CONTACT		CONTACT	
	INNER	OUTER	INNER	OUTER	INNER	OUTER	INNER	OUTER
M17/093 - RG 178 M17/094 - RG 179 M17/113 - RG 316	120 120 110	89 44 47	144 144 132	83 53 57	180 180 165	104 66 71	1.0 1.0 2.0	7.5 7.5 7.5
RAYCHEM 5026A 1311 5026D 1028 5/ 5028A 1114 5030A 1114 7528A 1317 5/ 7530A 1118 5/	55 115 65 60 135 120	54 54 69 110 47 54	66 138 78 72 162 144	65 65 83 132 57 65	83 172 98 90 203 180	81 81 104 165 71 81	2.0 2.0 1.5 1.0 1.5	7.5 7.5 7.5 7.5 7.5 7.5

4/ AFTER CONDITIONING.

5/ CENTER CONDUCTOR PLATED STEEL

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## SPECIFICATION CONTROL DRAWING

LOW SIGNAL LEYEL CONTACT RESISTANCE (INNER CONTACT ONLY) SEE TABLE V. TENSILE STRENGTH (INNER AND OUTER CONTACT SOLDER JOINT) SEE TABLE V.

TABLE V. LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY) AND TENSILE STRENGTH

TEST CABLE	MAXIMUM CONTACT RESISTANCE (MILLIOHMS)		MINIMUM TENSILE STRENGTH (POUNDS)		
	!NIT{AL,	AFTER CONDITIONING	INNER CONTACT	OUTER CONTACT	
M17/093 - RG 178	120	144	3.5	10.0	
M17/094 - RG 179	120	144	3.5	15.0	
M17/113 - RG 318	55	66	10.0	15.0	
RAYCHEM					
5026A (311	33	40	6.0	15.0	
5026D1028 5/	58	70	6.0	15.0	
5028A1114	45	54	6.0	15.0	
5030A1114	ଶ୍ରଣ	80	3.5	10.0	
7528A 1317 5/	93	112	5.0	15.0	
7530A1118 <u>5</u> /	120	<b>[44</b>	3.5	15.0	

5/ CENTER CONDUCTOR PLATED STEEL.

MATERIAL:

CONTACT BODY

BERYLLIUM COPPER, ALLOY 173, CONDITION H

PER ASTM B196

INNER CONTACT

BERYLLIUM COPPER, ALLOY 173, CONDITION H

PER ASTM B196

**PLATING** 

GOLD PLATE PER MIL-G-45204 TYPE II, GRADE C

CONTACT BODY AND 50 MICROINCHES MINIMUM

INNER CONTACT)

OVER

NICKEL PER QQ-N-290A 50 MIRCOINCHES MINIMUM

COPPER STRIKE - 40 MICROINCHES MAXIMUM

SOLDER FLUX

3n63 PER QQ-S-571

TYPE RMA PER QQ-S-571

SHRINK TUBING

MEAT-SHRINKABLE, RADIATION-CROSSLINKED POLYVINYLIDENE FLUORIDE

DIELECTRIC

ETFE FLUOROPOLYMER PER ASTM 03159

SHIPPING

FIGURE 1 INDICATES THE ONE-PIECE ASSEMBLY, TERMINATION INSTRUCTIONS

ARE TO BE SHIPPED WITH THE UNIT PACKAGE.

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