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Raychem

FSCM **08090**

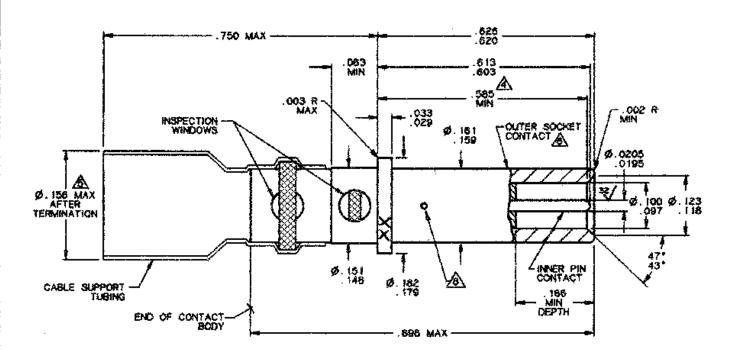
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SPECIFICATION CONTROL DRAWING

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, SOLDERTACT PRINTING REMOVABLE, SHIELDED, SIZE 12, M39029/75 TYPE (FOR MIL-C-38999 SERIES I, III AND IV CONNECTORS)



- 1. DIMENSIONS ARE IN INCHES.
- FIGURE 1.
- 2. MÉTRIC EQUIVALENTS CAN BE CALCULATED BASED UPON 1.00 INCH=25.4mm.
- 3. DIMENSIONS SHOWN APPLY AFTER PLATING.
- POINT AT WHICH A SQUARE ENDED PIN OF THE SAME BASIC DIAMETER AS THE MATING CONTACT FIRST ENGAGES THE OUTER CONTACT SPRING. PROVISION FOR CLEARENCE HOLE SHALL BE PROVIDED.
- SLEEVE RECOVERY: THE DIAMETER OF THE SHRINK TUBING OVER THE CABLE SHALL NOT EXCEED THE DIAMETER SHOWN.
- AS MATES WITH .0957.093 DIA PIN
- 7. CONTACT WEIGHT: 1.441 GRAMS MAXIMUM UNTERMINATED.
- THE FEATURES SHOWN ARE TWO HOLES REQUIRED TO ACCOMMODATE THE CONTACT MANUFACTURING PROCESS (REF).

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS.

DECIMALS .XXX ± .XX ± ANGLES ±

mm]

PREPARED BY: GAD NAME: CHECKED: APPROVED: DOCUMENT NUMBER:

TJ 001461-1 ZT DEV MGR.

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SPECIFICATION CONTROL DRAWING

REQUIREMENTS:

DIMENSIONS (FIGURE 1). DESIGN CHARACTERISTICS, AND CONFIGURATIONS MEET THE REQUIREMENTS OF M39029/75 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 SPECIFICATION D-6002.

MATING CONTACT: D-802-0144 (M39029/28)

TOOLS: SEE TABLE II.

TABLE 1. DESIGN CHARACTERISTICS

CABLE ACCOMODATED 1/	CONTACT CAVITY SIZE	TYPE	CLASS
M17/119 - RG 174 M17/094 - RG 179 M17/113 - RG 316 RAYCHEM 5024A1X+X RAYCHEM 5026A1X+X RAYCHEM 7528A1X+X RAYCHEM 7530A1X+X RAYCHEM 9530A1X+X RAYCHEM 9530A1X+X RAYCHEM 9532A1X+X	12	ס	А

OTHER APPLICATIONS USING DIFFERENT CABLES MAY BE ACCOMMODATED. CONSULT CONTACT MANUFACTURER FOR DETAILS.

TABLE II. TOOLS

HEATING TOOLS	REFLECTORS	STANDARD	FIXTURE 2/	REPAIR	INSTALLING	REMOVAL	
2/	2/ Z/	BASIC FIXTURE	ADAPTER	FIXTURE 2/	TOOLS	TOOLS	
AA-400 SUPER HEATER	#979663 MINI SOLDER SLEEVE	AD-1319	AT-13f9-24	AD-1568	M81969/8-09 OR M81969/14-04	M8 1969/8-10 OR M8 1969/14-04	
CV-5300 MINI GUN	MG-1 SOLDERSLEEVE	OR AD 1567					

2/ SEE TERMINATION PROCEDURE: RAYCHEM ES-61206

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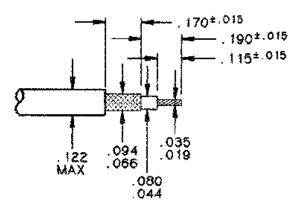
^{*} DESIGNATION CAN BE REPLACED WITH NUMBER 1 OR 2.

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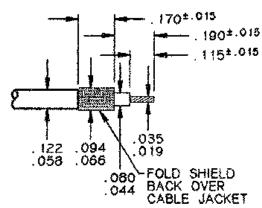
ASSEMBLY INSTRUCTIONS

- 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: 26 AWG AND LARGER CENTER CONDUCTOR

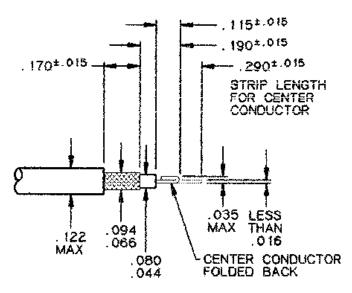


CABLE PREPARATION FOR STRAIGHT SHIELD

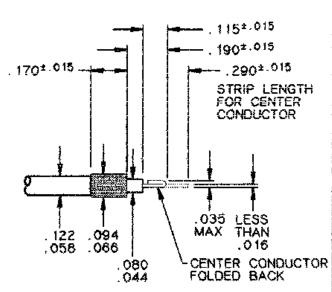


CABLE PREPARATION FOR FOLDBACK SHIELD

PREPARATION OF COAXIAL CABLE: 28 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

CONTACT ENGAGEMENT AND SEPARATION FORCES (OUTER 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 (QUNCES)		
	INITIAL	AFTER CONDITIONING	INITIAL	AFTER CONDITIONING	
.0950 +.0002	N/A	N/A	30.¢	36.0	
.0930 +.0000	3.0	2.5	N/A	N/A	

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

> AT SEA LEVEL: 1000 VAC. RMS. AT 50,000 FEET: 250 VAC. RMS.

CONTACT RESISTANCE: SEE TABLE IV

TABLE IV. CONTACT RESISTANCE

	MAXIMUM VOLTAGE DROP (MILLIVOLTS)					TE	\$T	
TEST CABLE	25° +3° C		25* +3* c 3/		125***3* C		CURRENT (AMPS)	
			CONTACT CONTACT		CONTACT		CONTACT	
	INNER	OUTER	INNER	OUTER	INNER	OUTER	INNER	OUTER
M17/119 - RG 174 M17/094 - RG 179	110 120	54 47	132 144	65 57	165 180	81 71	2.0	7.5 7.5
M17/113 - RG 316 RAYCHEM 5024A1311	110 60	47 47	13Z 72	57 57	165 90	71 71	3.0	7.5
5024A1314 5026A1311 5026A1317 4/	60 55 100	47 54 54	72 66 120	57 65 65	90 83 150	71 81 81	3.0 2.0 2.0	7.5 7.5 7.5
7528A 1 1 14 7530A 13 14	90 66	47 54	801 80	57 65	135 99	71 81	1.5	7.5 7.5
9530A1314 9530H1014 9532A1314	56 66 55	47 47 69	80 80 66	57 57 63	99 99 83	71 71 104	1.0 1.0 0.5	7.5 7.5 7.5

3/ AFTER CONDITIONING.

4/ CENTER CONDUCTOR PLATED STEEL

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SPECIFICATION CONTROL DRAWING

LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY): SEE TABLE V. TINSILE 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)		
	INITIAL.	AFTER CONDITIONING	INNER CONTACT	OUTER CONTACT	
M17/113 - RG 174 M17/094 - RG 179 M17/093 - RG 316	62 120 55	75 144 66	15.0 3.5 10.0	15.0 15.0 15.0	
RAYCHEM 5024A1311 5024A1314 5026A1311 5026A1317 4/ 7526A1114 7530A1314 9530A1314 9530H1014 9432A1314	20 20 28 50 60 66 66 66	24 24 34 60 72 80 80 80	6.0 8.0 6.0 6.0 3.5 3.5 3.5 2.9	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	

4/ 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

50 MICROINCHES MINIMUM OVER

(CONTACT BODY AND INNER CONTACT)

NICKEL PER OG-N-290A

50 MIRCOINCHES MINIMUM

OVER

COPPER STRIKE - 40 MICROINCHES MAXIMUM

SOLDER -

Sn63 PER QQ-S-571

TYPE RMA PER QQ-S-571

SHRINK TUBING

HEAT-SHRINKABLE, RADIATION-CROSSLINKED

POLYVINYLIDENE FLUORIDE

DIELECTRIC

ETFE FLUOROPOLYMER PER ASTM D3159

SHIPPING

FIGURE 1 INDICATES THE ONE-PIECE ASSEMBLY. TERMINATION INSTRUCTIONS

ARE TO BE SHIPPED WITH THE UNIT PACKAGE.

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