imall

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Rayche		A CORPORATION NSTITUTION DRIVE PARK, CALIFORNIA 94025	FSCM 06090	REVISION: G	ECN#: T-1789/	APPROVED:	DATE: 13/1/ 14
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COMPONENTS ENGINEERING GROUP	RAYCHEM CORPORATION 300 CONSTITUTION DRIVE MENLO PARK, CALIFORNIA 94025	FSCM (REVISION: G	ECN#: T−	APPROVED	DATE
SPE	CIFICATION CON	TROL	DRAWI	NG		

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REQUIREMENTS:

DIMENSIONS (FIGURE 1), DESIGN CHARACTERISTICS, AND CONFIGURATIONS MEET THE REQUIREMENTS OF M39029/28 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-602-0145 (M39029/75)

TOOLS: SEE TABLE II.

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 9530H1X+X RAYCHEM 9532A1X+X	12	D	*

TABLE I. DESIGN CHARACTERISTICS

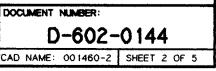
1/ OTHER APPLICATIONS USING DIFFERENT CABLES MAY BE ACCOMMODATED. CONSULT CONTACT MANUFACTURER FOR DETAILS.

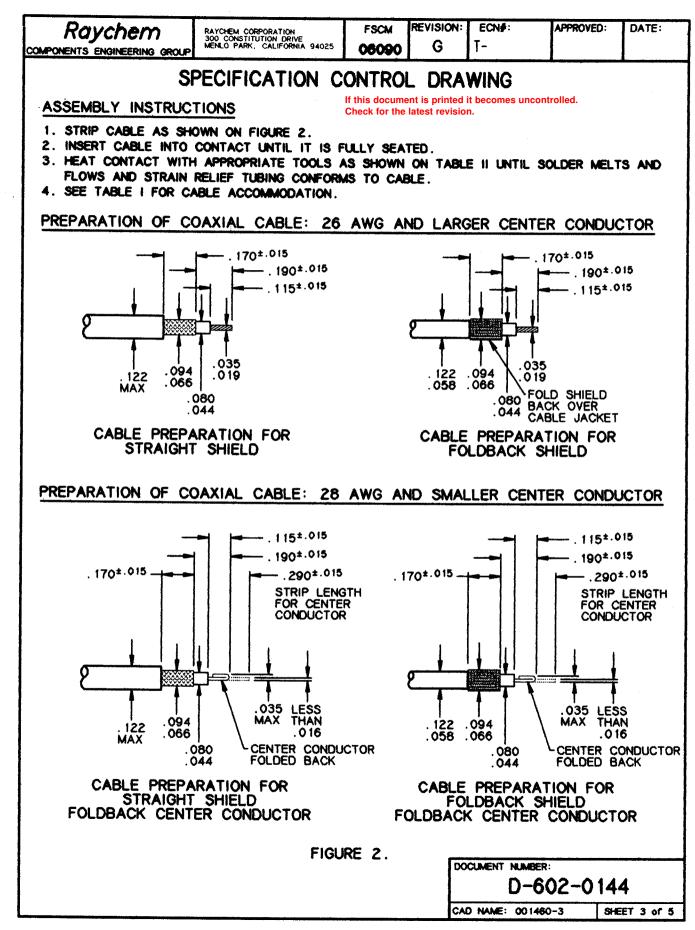
* DESIGNATION CAN BE REPLACED WITH NUMBER 1 OR 2.

HEATING REFLECTORS	STANDARD	FIXTURE 2/	REPAIR	INSTALLING	REMOVAL		
2/	2/	BASIC FIXTURE ADAPTER		FIXTURE	TOOLS	TOOLS	
AA-400 SUPER HEATER	#979663 Mini Solder Sleeve	AD-1319	AT-1319-24	AD~1566	M8 1969/8-09 OR	M81969/8-10 OR	
CV-5300 MINI GUN	MG-1 SOLDERSLEEVE	AD-1319 OR AD1567		AD-1966	M8 19697 14-04		

TABLE II. TOOLS

2/ SEE TERMINATION PROCEDURE: RAYCHEM ES-61206







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 (C	PARATION JUNCES)	MAXIMUM ENGAGEMENT FORCE (OUNCES)		
	INITIAL	AFTER CONDITIONING	INITIAL	AFTER CONDITIONING	
.0205 +.0002	N/A	N/A	12.0	14.0	
.0195 +.0000 0002	0.5	0.4	N/A	N/A	

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

AT	SEA LEVEL:	1000	VAC.	RMS.
AŤ	50.000 FEET:	250	VAC.	RMS.

CONTACT RESISTANCE: SEE TABLE IV.

TABLE IV. CONTACT RESISTANCE

	MAXINUM VOLTAGE DROP (MILLIVOLTS)						75	.
TEST CABLE	25* +3* c -0* c CONTACT		25* +3* C 3/		125*+3* C CONTACT		CURRENT (AMPS) CONTACT	
	INNER	OUTER	INNER	OUTER	INNER	OUTER	INNER	OUTER
M17/119 - RG 174 M17/094 - RG 179 M17/113 - RG 316 <u>RAYCHEM</u> 5024A1311 5026A1311 5026A1311 5026A1317 <u>4</u> / 7528A1114 7530A1314 9530A1314 9530H1014 9532A1314	110 120 110 60 60 55 100 90 66 66 66 55	54 47 47 47 54 47 54 47 47 89	132 144 132 72 72 66 120 106 80 80 80 80 80 80	65 57 57 57 65 65 57 65 57 57 83	165 180 165 90 90 83 150 135 99 99 99 99 99	81 71 71 81 81 71 81 71 104	2.0 1.0 2.0 3.0 2.0 2.0 1.5 1.0 1.0 1.0 5	7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5

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3/ AFTER CONDITIONING.

4/ CENTER CONDUCTOR PLATED STEEL

DOCUMENT NUMBER: D-602-0144 CAD NAME: 001460-4 SHEET 4 OF 5

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SPECIFICATION CONTROL DRAWING

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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)		TENSILE STRENGTH (POUNDS) (MINIMUM)		
	INITIAL	AFTER CONDITIONING	INNER CONTACT	OUTER CONTACT	
M17/113 - RG 174	62	75	15.0	15.0	
M17/094 - RG 179	120	144	3.5	15.0	
M17/093 - RG 316	55	66	10.0	15.0	
RAYCHEM					
5024A1311	20	24	5.0	25.0	
5024A1314	20	24	6.0	25.0	
5026A1311	28	34	8.0	25.0	
5026A1317 4/	50	60	8.0	25.0	
7528A1114	60	72	8.0	25.0	
7530A 1314	66	80	3.5	25.0	
9530A 13 14	66	80	3.5	25.0	
9530H1014	66	80	3.5	25.0	
9432A 1314	110	132	2.9	15.0	

4/ CENTER CONDUCTOR PLATED STEEL.

MATERIAL: CONTACT BODY BERYLLIUM COPPER, ALLOY 173, CONDITION H PER ASTM B 196 INNER CONTACT BERYLLIUM COPPER, ALLOY 173, CONDITION H PER ASTM B195 PLATING GOLD PLATE PER MIL-G-45204 TYPE II, GRADE C (CONTACT BODY AND **50 MICROINCHES MINIMUM** INNER CONTACT) OVER NICKEL PER OQ-N-290A **50 MIRCOINCHES MINIMUM** OVER COPPER STRIKE - 40 MICROINCHES MAXIMUM SOLDER Sn63 PER QQ-5-571 FLUX 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.

> DOCUMENT NUMBER: D-602-0144 CAD NAME: 001460-5 SHEET 5 OF 5