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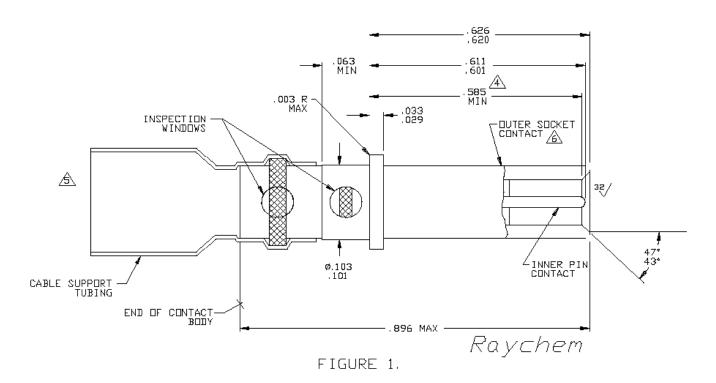
FSCM 06090 REVISION:

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SPECIFICATION CONTROL DRAWING

CONTACTS, ELECTRICAL CONNECTOR, SOCKET, SOLDERTACT R REMOVABLE, TWISTED PAIR, SHIELDED SIZE 16, M39029/77 TYPE (FOR MIL-C-38999 SERIES I,III AND IV CONNECTORS)



- 1. DIMENSIONS ARE IN INCHES.
- 2. METRIC 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.



⚠ MATES WITH .0635/.0615 DIA PIN

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

DECIMALS .XXX ± .XX ± ANGLES ±

mm] mm]

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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 AND THE CABLE ACCOMMODATED IS TWISTED PAIR INSTEAD OF COAXIAL. SEE TABLE I FOR CABLE ACCOMMODATIONS.

THIS CONTACT IS QUALIFIED TO RAYCHEM SPECIFICATION D-6002.

TOOLS: SEE TABLE II.

TABLE I. DESIGN CHARACTERISTICS

CABLE ACCOMODATED 1/	CONTACT CAVITY SIZE	TYPE	CLASS
TWISTED PAIR 26 AWG TWISTED PAIR 28 AWG TWISTED PAIR 30 AWG	16	D	А

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

TABLE II. TOOLS

HEATING TOOLS	REFLECTORS	STANDARD FIXTURE 2/		REPAIR FIXTURE	INTALLING	REMOVAL	FOLDING
2/	2/	BASIC FIXTURE	ADAPTER	5/	TOOLS	TOOLS	TOOL
AA-400 SUPER HEATER	#979663 MINI SOLDER SLEEVE	AD-1319 OR	AT-1319-78	AD-1565	MB1969/8-07 DR M81969/14-03	M81969/8-08 DR M81969/14-03	AD-1575-1
CV-5300 MINI GUN	MG-1 SOLDERSLEEVE	AD1567	111 1019 70	112 1000			ND 1373 1

SEE TERMINATION PROCEDURE: RAYCHEM ES-61224

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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 STRAIN RELIEF TUBING CONFORMS TO CABLE.
- 4. SEE TABLE I FOR CABLE ACCOMMENTATE ON

TWISTED PAIR CABLE ACCOMMODATION

 SOLDERTACTS CONTACTS CAN BE TERMINATED TO TWISTED-PAIR CABLE OF THE FOLLOWING CONSTRUCTION.

SIZE......AWG 26 THROUGH AWG 30 PLATING.....TIN OR SILVER CONSTRUCTION.....SOLID OR STRANDED INSULATION DIAMETER......Ø,045 INCH. MAX.

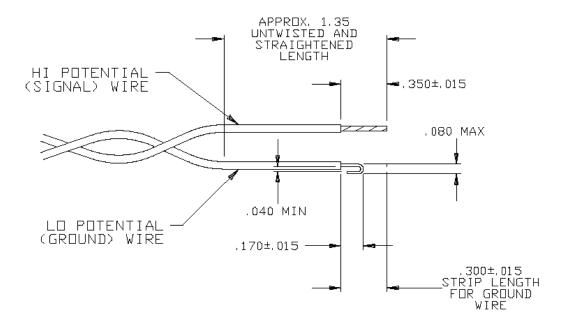


FIGURE 2

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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.

Paycham TABLE III

	<i>K</i> .c	<u>vcnem</u>				
TEST PIN	TEST PIN DIAMETER	MINIMUM SE FORCE (C		MAXIMUM ENGAGEMENT FORCE (OUNCES)		
	(INCH)	INITIAL	AFTER CONDITIONING	INITIAL	AFTER CONDITIONING	
	.0635 +.0002 0000	N/A	N/A	30.0	36.0	
	.0615 +.000D 0002	2.0	1.5	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

	MAX:	IMUM VE	ILTAGE	DROP (M	1ILL I V 🗆	LTZ>				
TEST CABLE	25⁺	-0° C +3°	25* _	-0° C 3 ∕ +3°	125* _	+3°	TES CURR (AMF	ENT		
	CONTACT		CDN.	TACT CONT		TACT	CONTACT			
	INNER	OUTER	INNER	DUTER	INNER	OUTER	INNER	OUTER		
26 AWG T.P./TC 28 AWG T.P./TC	52 54	52 54	63 65	63 65	78 B1	78 81	2.0 1.5	2.0 1.5		
30 AWG T.P./TC	60	60	73	73	90	90	1.0	1. D		
26 AWG T.P./SHSC 28 AWG T.P./SHSC	52 54	52 54	63 65	63 65	78 81	78 81	2, 0 1, 5	2, 0 1, 5		
30 AWG T.P./SHSC	60	60	73	73	90	90	1.0	1.0		

3/ AFTER CONDITIONING.

TC = TIN PLATED COPPER

RA = TWISTED PAIR

SHSC = SILVER PLATED HIGH STRENGTH

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LOW SIGNAL LEVEL CONTACT RESISTANCE (INNER CONTACT ONLY): SEE TABLE V. TENSILE STRENGTH (INNER AND DUTER CONTACT SOLDER JOINT): SEE TABLE V.

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

	MAXIMUM		TENSILE STRENGTH			
TEST CABLE	RESISTANCE (MILLIDHMS)		(POUNDS) (MINIMUM)			
	INITIAL AFTER CONDITIONING		INNER CONTACT	DUTER CONTACT		
26 AWG T.P./TC	31	38	5.0	5.0		
28 AWG T.P./TC	50	60	3.0	3.0		
30 AWG T.P./TC	75	88	1.5	1.5		
26 AWG T.P./SHSC	31	38	5.0	5.0		
28 AWG T.P./SHSC	50	60	4.0	4.0		
30 AWG T.P./SHC	75	88	2.0	2.0		

TC = TIN PLATED COPPER
TP = TWISTED PAIR WIRE

SHSC = SILVER PLATED HIGH STRENGTH COPPER

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

COPPER STRIKE - 40 MICROINCHES MAXIMUM

(CONTACT BODY AND 50 MICROINCHES MINIMUM

INNER CONTACT) OVER

NICKEL PER QQ-N-290A 50 MIRCOINCHES MINIMUM

OVER

SOLDER Sn63 PER QQ-S-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.

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