

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







THEOElectronics

Raychem
Products

Tyco Electronics Corporation 305 Constitution Drive Menlo Park, CA 94025 U.S.A. FSCM 06090 REVISION:

ECN#: T-15710 APPROVED:

DATE:

SPECIFICATION CONTROL DRAWING

CONTACTS, ELECTRICAL CONNECTOR, PIN SOLDERTACT ® , REMOVABLE, SHIELDED, SIZE 12, M39029/28 TYPE (FOR MIL-C-38999 SERIES I, II, III, AND IV CONNECTORS)

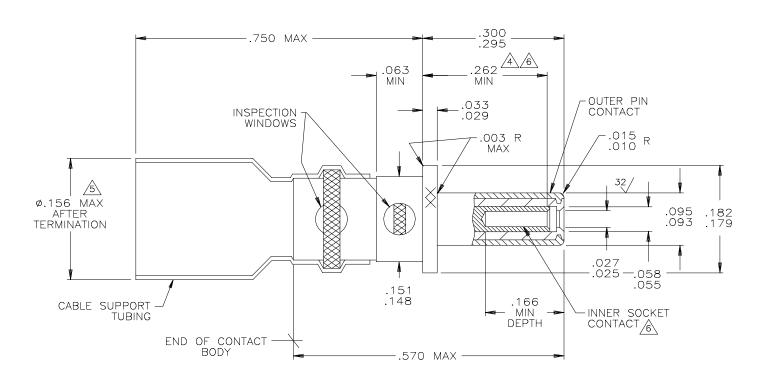


FIGURE 1.

- 1. DIMENSIONS ARE IN INCHES.
- 2. METRIC EQUIVALENTS CAN BE CALCULATED BASED UPON 1.00 INCH=25.4 m.m.
- 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 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.

⚠ MATES WITH .0205/.0195 DIAMETER PIN.

If this document is printed it becomes uncontrolled. Check for the latest revision.

7. CONTACT WEIGHT: 0.560 GRAMS MAXIMUM UNTERMINATED.

NOTICE: THE INFORMATION GIVEN HEREIN IS BELIEVED TO BE RELIABLE, HOWEVER, RAYCHEM MAKES NO WARRANTIES AS TO ITS ACCURACY OR COMPLETENESS AND DISCLAIMS ANY LIABILITY IN CONNECTION WITH ITS USE. RAYCHEM'S OBLIGATIONS SHALL BE ONLY AS SET FORTH IN RAYCHEM'S STANDARD TERMS AND CONDITIONS OF SALE FOR THIS PRODUCT AND IN NO CASE WILL RAYCHEM BE LIABLE FOR ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE SALE, RESALE, USE OR MISUSE OF THE PRODUCT. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS. DECIMALS $.XXX \pm$ mm USERS OF RAYCHEM PRODUCTS SHOULD MAKE THEIR OWN EVALUATION TO DETERMINE THE SUITABILITY OF EACH SUCH PRODUCT FOR THE SPECIFIC APPLICATION. .XX ± mm] ANGLES ± PREPARED BY: CAD NAME: CHECKED: APPROVED: DOCUMENT NUMBER: D-602-0150CP TJXX1464-1DEV MGR DATE: DATE: DATE: SHEET 1 of 5



Raychem **Products**

Tyco Electronics Corporation 305 Constitution Drive Menlo Park, CA 94025 U.S.A.

FSCM 06090 REVISION: R

ECN#: T-

APPROVED:

DATE:

SPECIFICATION CONTROL DRAWING

REQUIREMENTS:

DIMENSIONS (FIGURE 1), DESIGN CHARACTERISTICS, AND CONFIGURATION 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 I FOR CABLE ACCOMODATIONS.

THIS CONTACT IS QUALIFIED TO RAYCHEM SPECIFICATION D-6002.

MATING CONTACT: D-602-0151 (M39029/75)

TOOLS: SEE TABLE II.

TABLE I. DESIGN CHARACTERISTICS

CABLE ACCOMODATED 1/	CONTACT CAVITY SIZE	TYPE	CLASS
RAYCHEM 5022A1X*X RAYCHEM 9528A1X*X RAYCHEM 9528D1X*X	12	D	А

^{1/} other applications using different cables may be accomodated. CONSULT CONTACT MANUFACTURER FOR DETAILS.

TABLE II. TOOLS

HEATING	REFLECTORS	standard fixture <u>2</u> /		REPAIR FIXTURE	INSTALLING	REMOVAL
TOOLS <u>2</u> /	2/	BASIC FIXTURE	ADAPTER	$\frac{2}{2}$	TOOLS	TOOLS
AA-400 SUPER HEATER	#979663 MINI SOLDER SLEEVE	AD-1319 OR	AT-1319-24	AD-1566	M81969/8-09 OR M81969/14-04	M81969/8-10 OR M81969/14-04
CV-5300 MINI GUN	MG-1 SOLDERSLEEVE	AD1567				

2/ SEE TERMINATION PROCEDURE: RAYCHEM ES-61223

DOCUMENT NUMBER:

D-602-0150

CAD NAME: XX1464-2

SHEET 2 of 5

DESIGNATION CAN BE REPLACED WITH NUMBER 1 OR 2.

tyco **Electronics**

Raychem **Products**

Tyco Electronics Corporation 305 Constitution Drive Menlo Park, CA 94025 U.S.A.

FSCM 06090 **REVISION:** R

ECN#:

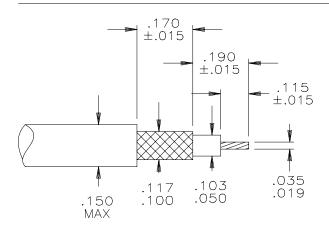
APPROVED:

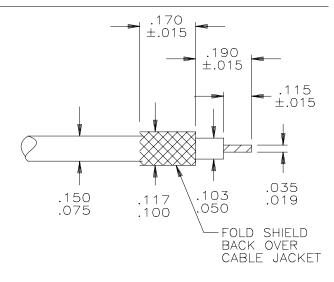
DATE:

SPECIFICATION CONTROL DRAWING ASSEMBLY INSTRUCTIONS

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

PRFPARATION OF COAXIAL CABLE: 26 AWG AND LARGER CENTER CONDUCTOR

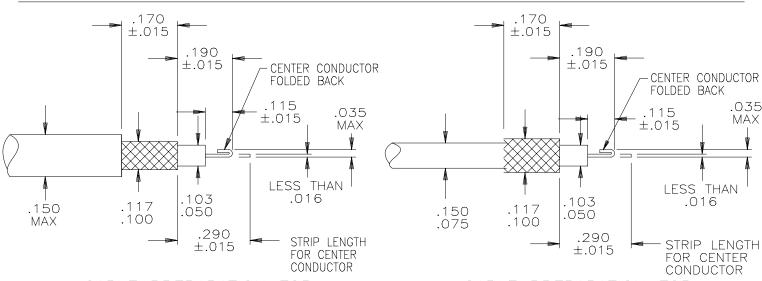




CABLE PREPARATION FOR STRAIGHT SHIFLD

CABLE PREPARATION FOR FOLDBACK SHIFLD

28 AWG AND SMALLER CENTER CONDUCTOR PREPARATION OF COAXIAL CABLE:



CABLE PREPARATION FOR STRAIGHT SHIELD FOLDBACK CENTER CONDUCTOR

CABLE PREPARATION FOR FOLDBACK SHIELD FOLDBACK CENTER CONDUCTOR

FIGURE 2.

DOCUMENT NUMBER:

D-602-0150

CAD NAME: XX1464-3 SHEET 3 of 5

If this document is printed it becomes uncontrolled. Check for the latest revision.

TycoElectronics

Raychem
Products

Tyco Electronics Corporation 305 Constitution Drive Menlo Park, CA 94025 U.S.A. FSCM 06090

REVISION:

ECN#:

APPROVED:

DATE:

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	MINIMUM SE FORCE (C		MAXIMUM ENGAGEMENT FORCE (OUNCES)		
DIAMETER (INCH)	INITIAL	AFTER CONDITIONING	INITIAL	AFTER CONDITIONING	
.0205 +.0002 0000	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. AT 50,000 FEET: 250 VAC. RMS.

CONTACT RESISTANCE: SEE TABLE IV.

If this document is printed it becomes uncontrolled. Check for the latest revision.

TABLE IV. CONTACT RESISTANCE

	MAXIMUM VOLTAGE DROP (MILLIVOLTS)					T.E.	¬.	
TEST CABLE	25° +3° C		25° +3° C 3/		125° +3° C		TEST CURRENT (AMPS)	
	CONTACT		CONTACT		CONTACT		CONTACT	
	INNER	OUTER	INNER	OUTER	INNER	OUTER	INNER	OUTER
RAYCHEM 5022A1311 9528A1318 4/ 9528D1024	20 100 60	60 60 60	24 120 72	72 72 72	30 150 90	90 90 90	1.0 1.0 1.0	12.0 12.0 12.0

 $\underline{\mathbf{3}}/$ AFTER CONDITIONING.

4/ CENTER CONDUCTOR PLATED STEEL

DOCUMENT NUMBER:

D-602-0150

CAD NAME: XX1464-4 SHEET 4 of 5

Liectronics

Raychem
Products

Tyco Electronics Corporation 305 Constitution Drive Menlo Park, CA 94025 U.S.A. FSCM 06090

REVISION:

ECN#:

APPROVED:

DATE:

SPECIFICATION CONTROL DRAWING

LOW SIGNAL LEVEL 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)		
	INITIAL	AFTER CONDITIONING	INNER CONTACT	OUTER CONTACT	
RAYCHEM 5022A1311 9528A1318 4/ 9528D1024	20 100 60	24 120 72	10 6 6	20 20 20 20	

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

(CONTACT BODY AND 50 MICROINCHES MINIMUM

INNER CONTACT)

OVER

NICKEL PER QQ-N-290A 50 MICROINCHES MINIMUM

OVER

COPPER STRIKE - 40 MICROINCHES MAXIMUM

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.

DOCUMENT NUMBER: