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| tyco Electronics | Tyco Electronics Corporation 300 Constitutional Drive Mindo Park, CA 94025 USA | Raychem | FSCM 08090 | REVISION: F | ECN#: APPROVED: DATE: T-1789/ M.H.J.M. 93/1/28 |
|---|--|---|---|---|--|
| ···· | SPECI | ICATION CO | NTROL | DRAWI | NG |
| C | ONTACTS, ELEC REMOVABLE, (FOR MIL-C- | TRICAL CONNECT SHIELDED, SIZE 38999 SERIES I. | or, socke 12, m39 III and IV | et, sole 1029/75 Connec | DERTACT 😵 TYPE TORS) |
| 2. METRI 3. DIMER A POINT FIRST SLEEV THE D A MATE: 7. CON | G END OF CONTACT BODY BODY BODY BODY BODY BODY BODY BODY | OB3 MIN OO3 R MAX OO3 R MAX OO3 R MAX OD OD OD OD OD OD OD OD OD OD OD OD OD | BAME BASIC I ROVISION FOR IK TUBING OV | DIAMETER A CLEARENCE ER THE CAR | S THE MATING CONTACT HOLE SHALL BE PROVIDED. BLE SHALL NOT EXCEED |
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| MAKES NO WARRANTIES IN CONNECTION WITH RAYCHEM'S STANDARE WILL RAYCHEM BE ARISING OU USERS OF RAYC | AS TO ITS ACCURACY (1 ITS USE, RAYCHEM'S O 1 TERMS AND CONDITIONS 1 LABLE FOR ANY INCIDEN 17 OF THE SALE, RESALE CHEM PRODUCTS SHOULD I LITY OF EACH SUCH PRO | ELIEVED TO BE RELIABLE, H R COMPLETENESS AND DISC BLIGATIONS SHALL BE ONLY OF SALE FOR THIS PRODUC TAL, INDIRECT OR CONSEQUE , USE OR MISUSE OF THE P MAKE THEIR OWN EVALUATIO DUCT FOR THE SPECIFIC APP | LAIMS ANY LIABIL AS SET FORTH I T AND IN NO CA ENTIAL DAMAGES RODUCT, N TO DETERMINE | LITY DI N SE DEC .XX .XX | LESS OTHERWISE SPECIFIED MENSIONS ARE IN INCHES. METRIC DIMENSIONS ARE IN BRACKETS. IMALS X ± [mm] ± [mm] LES ± |
| PREPARED BY: TJ | CAD NAME: | CHECKED: AI | PROVED: | DOCUM | D-602-0145 |
| DATE | 001461-1 | D | TE: | | SHEET 1 OF 5 |

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| tyco Electronics | Tyee Electronics Corporation 300 Constitutional Drive Memb Park, CA 94025 USA | Raychem | FSCM 06090 | REVISION: F | ECN#: T- | APPROVED | DATE: |
| | | | | | i., | <u>(</u> | |

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.

| CABLE ACCOMODATED 1/ | CONTACT CAVITY SIZE | TYPE | CLASS |
|---|---------------------------|------|-------|
| M17/119 - RG 174 M17/094 - RG 179 M17/113 - RG 315 RAYCHEM 5024A1X*X RAYCHEM 5026A1X*X RAYCHEM 7528A1X*X RAYCHEM 7530A1X*X RAYCHEM 9530A1X*X RAYCHEM 9530H1X*X RAYCHEM 9532A1X*X | 12 | D | A |

TABLE 1. 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 TOOLS | REFLECTORS | STANDARD | FIXTURE 2/ REPAIL | | INSTALLING | REMOVAL |
|---------------------------|--|---------------|-------------------|---------|--------------------|------------------------|
| 2/ | <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u> | BASIC FIXTURE | ADAPTER | | TOOLS | TOOLS |
| AA-400 SUPER HEATER | #979663 MINI SOLDER SLEEVE | AD-1319 OR | AT-1319-24 | AD-1568 | M8 196978-09 OR | M8 1969 / 8 - 10 OR |
| CV-5300 MINI GUN | MG~1 SOLDERSLEEVE | AD 1567 | | | | M8 19697 14-04 |

TABLE II. TOOLS

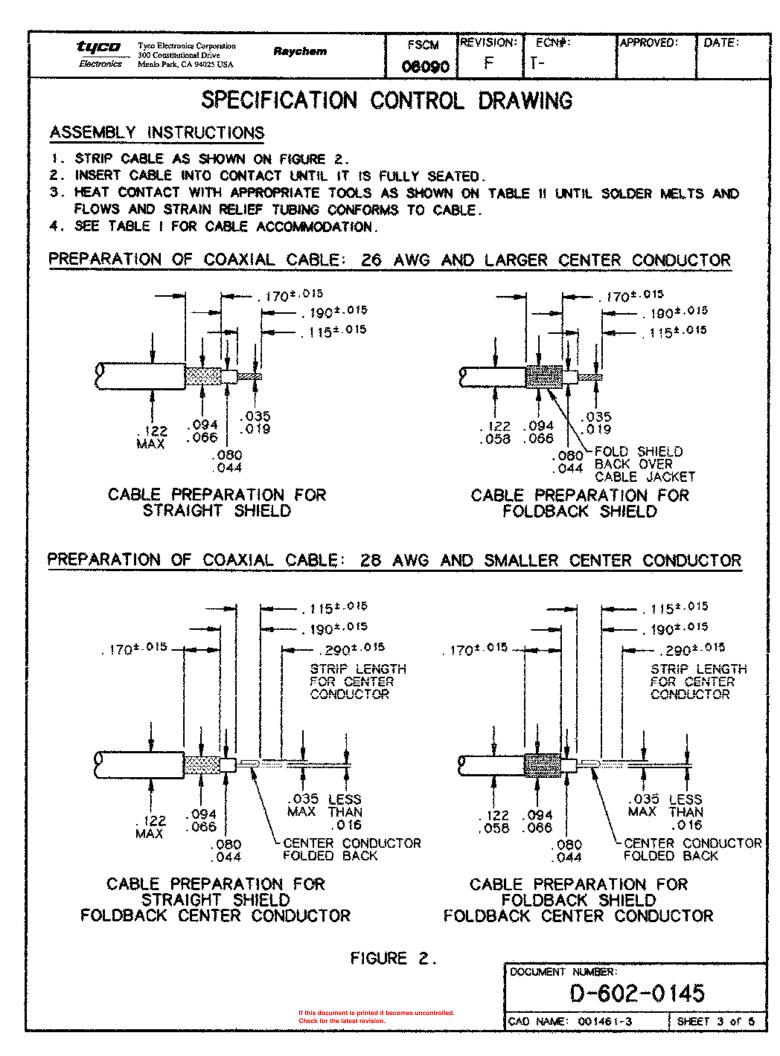
2/ SEE TERMINATION PROCEDURE: RAYCHEM ES-61206

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| Electronics | Menio Park, CA 94025 USA | - | 06090 | F | T - | | |

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.

| TEST PIN DIAMETER | MINIMUM SE FORCE ((| EPARATION DUNCES! | MAXIMUM ENGAGEMENT FORCE (QUINCES) | | |
|----------------------|------------------------|-----------------------|---------------------------------------|-----------------------|--|
| (INCH) | INITIAL | AFTER CONDITIONING | INITIAL | AFTER CONDITIONING | |
| .0950 +.0002 0000 | N/A | N/A | 30.0 | 36.0 | |
| .0930 +.0000 0002 | 3.0 | 2.5 | NZA | N/A | |

TABLE III

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

| | MA) | (imum v | OLTAGE | DROP (| MILLIVO | LTS) | | | | | |
|---|--|--|---|--|---|---|--|--|--|--|--|
| TEST CABLE | 25' | +3* C -0* C | 25* * | 3 ³ ° <u>3</u> ∕ | 125* | 3; c | TE: CURF (AM | ENT | | | |
| | CON | TACT | CON | TACT | CON | TACT | CON | TACT | | | |
| | 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 5026A1317 7528A1114 7528A1114 7530A1314 9530A1314 9530H1014 9532A1314 | 110 120 110 60 55 100 90 68 86 68 55 | 54 47 47 47 54 54 47 54 47 89 | 132 144 132 72 72 66 120 108 80 80 80 80 80 | 65 57 57 57 65 65 65 57 65 57 83 | 165 180 165 90 90 83 150 135 99 99 99 99 99 | 81 71 71 81 81 81 71 81 71 71 104 | 2.0 1.0 2.0 3.0 2.0 1.5 1.0 1.0 1.0 0.5 | 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 | | | |

3/ AFTER CONDITIONING.

4/ CENTER CONDUCTOR PLATED STEEL

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|---------------------|--|------------|---------------------------------|-------|----------------|---------------------|------------|------|
| | SPECIF | ICATION | CONTRO | | DRAWI | NG | | |
| | | | | | | | | |
| | W SIGNAL LEVEL O | | • • • • | | | | | |
| 1 | FINSILE STRENGTH (| | | | | ee t ab le ' | V. | |
| | | | EVEL CONTACT I AND TENSILE S | | | | | |
| r | · · · · · · · · · · · · · · · · · · · | MAXIMUM | CONTACT | | MINIMUM 7 | | -] | |
| į | TEST CABLE | RESISTANCE | | l s | STRENGTH | | | |
| L | | INETTAL. | AFTER CONDITIONING | INNER | CONTACT | OUTER | | |
| м | 17/113 - RG 174 | 62 | 75 | | 15.0 | 15.0 | | |
| M | 17/094 - RG 179 | 120 | 144 | Į | 3.5 | 15.0 | | |
| M | 17/093 - RG 316 | 55 | 66 | | 10.0 | 15.0 | - | |
| RA | YCHEM | 1 | | ł | | | | |
| 50 | 24A1311 | 20 | 24 | | 6.0 | 25.0 | | |
| 50 | 24A1314 | 20 | 24 | | 8.0 | 25.0 | | |
| 50 | 26A1311 | 28 | 34 | | 6.0 | 25.0 | | |
| | 28A 1317 4/ | 50 | 60 | | 6.0 | 25.0 | 1 | |
| - | 28A1114 | 60 | 72 | | 6.0 | 25.0 | 4 | |
| 1 | 30A 13 14 | 66 66 | 80 80 | | 3.5 | 25.0 | 1 | |
| 80 | 30A 13 14 | 66 | 00 | | 3.5 | 25.0 | 1 | |

4/ CENTER CONDUCTOR PLATED STEEL.

66

110

9530H1014

9432A1314

MATERIAL: CONTACT BODY BERYLLIUM COPPER, ALLOY 173, CONDITION H PER ASTM B196 INNER CONTACT BERYLLIUM COPPER, ALLOY 173, CONDITION H PER ASTM 8196 PLATING GOLD PLATE PER MIL-G-45204 TYPE II, GRADE C ICONTACT BODY AND 50 MICROINCHES MINIMUM INNER CONTACT) SVER NICKEL PER OG-N-290A **50 MIRCOINCHES MINIMUM** OVER COPPER STRIKE - 40 MICROINCHES MAXIMUM SOLDER Sn83 PER 00-5-571 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.

80

132

3.5

2.9

25.0

15.0

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