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| REDRAWN IN ME-10 EC NO: UCP2006-3071 DRWN: JOMERC1 2006/06/22 CHKD: JOMERC1 2006/06/22 APPR: JOMERC1 2006/06/23 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | SCALE 8:1 | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .016 1 PLACE ± 0.40 ± --- ANGULAR ± 1/2° | mm INCH DRAWN BY DATE R/JF 1/7/92 CHECKED BY DATE R/JF 1/7/92 APPROVED BY DATE RAS 1/7/92 | TITLE MALE CRIMP TERMINAL, 12, 10 & 8AWG MINIFIT SR. | | MOLEX MOLEX INCORPORATED | DOCUMENT NO. SD-42817-* |
| H1 | DESCRIPTION | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | MATERIAL NO. SEE CHART | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

| ITEM NUMBER | WIRE RANGE | DIM. A | DIM. B | DIM. C | DIM. D | DIM. E | DIM. F | DIM. G | MAX. INSULATION DIAMETER | PLATING |
|-------------|-------------|--|--|--------------------------|--|--|--------------------------|-------------------------|----------------------------|-------------|
| 42817-0011 | 12 & 10 AWG | $\frac{.213 \pm .024}{(5.40 \pm .60)}$ | $\frac{.240 \pm .016}{(6.10 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.232 \pm .024}{(5.90 \pm .60)}$ | $\frac{.260 \pm .016}{(6.60 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.087}{(27.60)}$ | $\frac{.209}{(5.30)}$ DIA. | OVERALL TIN |
| 42817-0031 | 8 AWG | $\frac{.229 \pm .024}{(5.83 \pm .60)}$ | $\frac{.292 \pm .016}{(7.42 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.236 \pm .024}{(6.00 \pm .60)}$ | $\frac{.216 \pm .016}{(5.50 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.087}{(27.60)}$ | $\frac{.260}{(6.60)}$ DIA. | |
| 42817-0111 | 12 & 10 AWG | $\frac{.213 \pm .024}{(5.40 \pm .60)}$ | $\frac{.240 \pm .016}{(6.10 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.232 \pm .024}{(5.90 \pm .60)}$ | $\frac{.260 \pm .016}{(6.60 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.165}{(29.60)}$ | $\frac{.209}{(5.30)}$ DIA. | |
| 42817-0131 | 8 AWG | $\frac{.229 \pm .024}{(5.83 \pm .60)}$ | $\frac{.292 \pm .016}{(7.42 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.236 \pm .024}{(6.00 \pm .60)}$ | $\frac{.216 \pm .016}{(5.50 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.165}{(29.60)}$ | $\frac{.260}{(6.60)}$ DIA. | |
| 42817-0012 | 12 & 10 AWG | $\frac{.213 \pm .024}{(5.40 \pm .60)}$ | $\frac{.240 \pm .016}{(6.10 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.232 \pm .024}{(5.90 \pm .60)}$ | $\frac{.260 \pm .016}{(6.60 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.087}{(27.60)}$ | $\frac{.209}{(5.30)}$ DIA. | SELECT GOLD |
| 42817-0032 | 8 AWG | $\frac{.229 \pm .024}{(5.83 \pm .60)}$ | $\frac{.292 \pm .016}{(7.42 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.236 \pm .024}{(6.00 \pm .60)}$ | $\frac{.216 \pm .016}{(5.50 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.087}{(27.60)}$ | $\frac{.260}{(6.60)}$ DIA. | |
| 42817-0112 | 12 & 10 AWG | $\frac{.213 \pm .024}{(5.40 \pm .60)}$ | $\frac{.240 \pm .016}{(6.10 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.232 \pm .024}{(5.90 \pm .60)}$ | $\frac{.260 \pm .016}{(6.60 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.165}{(29.60)}$ | $\frac{.209}{(5.30)}$ DIA. | |
| 42817-0132 | 8 AWG | $\frac{.229 \pm .024}{(5.83 \pm .60)}$ | $\frac{.292 \pm .016}{(7.42 \pm .40)}$ | $\frac{.067}{(1.70)}$ R. | $\frac{.236 \pm .024}{(6.00 \pm .60)}$ | $\frac{.216 \pm .016}{(5.50 \pm .40)}$ | $\frac{.087}{(2.20)}$ R. | $\frac{1.165}{(29.60)}$ | $\frac{.260}{(6.60)}$ DIA. | |

NOTES:

1) MATERIAL: COPPER ALLOY 151, .020/(.50) THICK.

2) PLATING:

1 = .000100/(.00254) MIN. *TIN OVER
.000050/(.00127) MIN. NICKEL.

2 = .000030/(.00076) MIN. SELECT GOLD IN CONTACT AREA.
.000100/(.00254) MIN. SELECT *TIN ON SOLDER TAILS
OVER .000050/(.00127) MIN. NICKEL.

* THE PRIMARY SHIPPING CARTON WILL BE LABELED
* COMPLIANT TO ROHS DIRECTIVE 2002/95/EC
AND ELV ANNEX II OF DIRECTIVE 2000/53/EC.
CARTONS WITHOUT THIS LABEL MAY CONTAIN
PRODUCT WITH TIN-LEAD.

3) PRODUCT SPEC.: PS-42815-001

4) PART IS DESIGNED IN METRIC.

5) TERMINALS FOR USE WITH STRANDED WIRE ONLY.

6) ITEM NUMBERS PRECEDED BY AN *X* IN THE CHART ARE NOT AVAILABLE.

7) THE 8 AWG TERMINAL HAS NO INSULATION CRIMP. THE SECONDARY
CRIMP SECTION ACTS AS A STRAIN RELIEF ON THE BARE CONDUCTOR ONLY.
SEE MOLEX CRIMP SPECIFICATION FOR DETAILS.

8) AFTER CRIMPING, THIS DIMENSION IS .140/(3.55) MINIMUM.

9) AFTER CRIMPING, THIS DIMENSION IS .089/(2.25) MAXIMUM.

10) WHEN USING THE 8 AWG TERMINAL WITH "HI-FLEX" WIRE, MOLEX STRONGLY
RECOMMENDS THAT THE APPROPRIATELY RATED HEAT SHRINK INSULATION BE
APPLIED OVER THE WIRE INSULATION AND CRIMP AREA, AS SHOWN, TO MINIMIZE
WIRE INSULATION CREEPAGE OUTSIDE OF HOUSING.

11) WHEN USING OVERALL TIN PLATED TERMINALS.
FOR APPLICATIONS INVOLVING VIBRATION AND/OR THERMAL CYCLING,
MOLEX STRONGLY RECOMMENDS THE USE OF NYE LUBRICANT, NYOGEL 760G,
ON THE MATING AREA OF THE TERMINAL. LUBRICANT SHOULD BE APPLIED
AFTER THE TERMINALS ARE INSERTED INTO THE HOUSING.

12) THE 8AWG TERMINAL WILL ALSO ACCOMODATE 2 12AWG WIRES
SEE CRIMP SPEC FOR DETAILS.

13) CRIMP SPECS.:
638210000 FOR 10AWG & 12AWG
638300000 FOR 8AWG, 8AWG HI-FLEX & DOUBLE 12AWG

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|---|-------------------------------|---------------------------------------|---------------------------|--|---|---|------------------------|
| SEE SHEET 1 EC NO: UCP2006-3071 DRAWN: COMERC CHKD: 2006/06/22 APPR: COMERC 2006/06/23 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | SCALE --- | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | mm | INCH | DRAWN BY GEP | DATE 1/10/95 | TITLE MALE CRIMP TERMINAL 10-12 AWG AND 8 AWG MINIFIT SR. SERIES | |
| H1 | REV | 4 PLACES ± --- ± --- | CHECKED BY RJF | DATE 1/10/95 | MOLEX MOLEX INCORPORATED DOCUMENT NO. SD-42817-* SHEET NO. 2 OF 2 | | |
| | | 3 PLACES ± --- ± .010 | APPROVED BY RAS | DATE 1/10/95 | | | |
| | | 2 PLACES ± 0.25 ± .016 | MATERIAL NO. SEE CHART | | | | |
| 1 PLACE ± 0.40 ± --- | | ANGULAR ± 1/2° | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | |