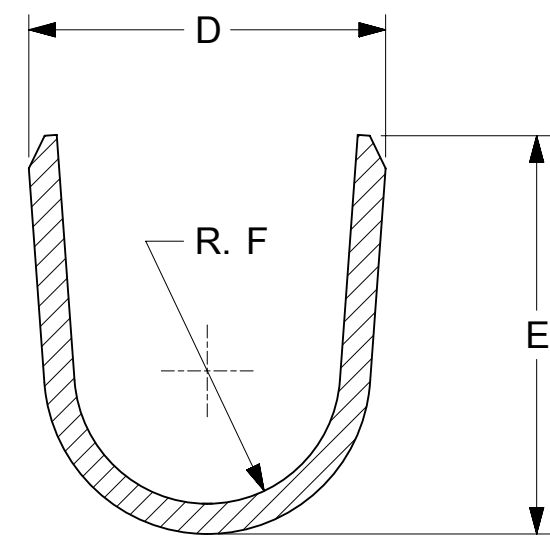
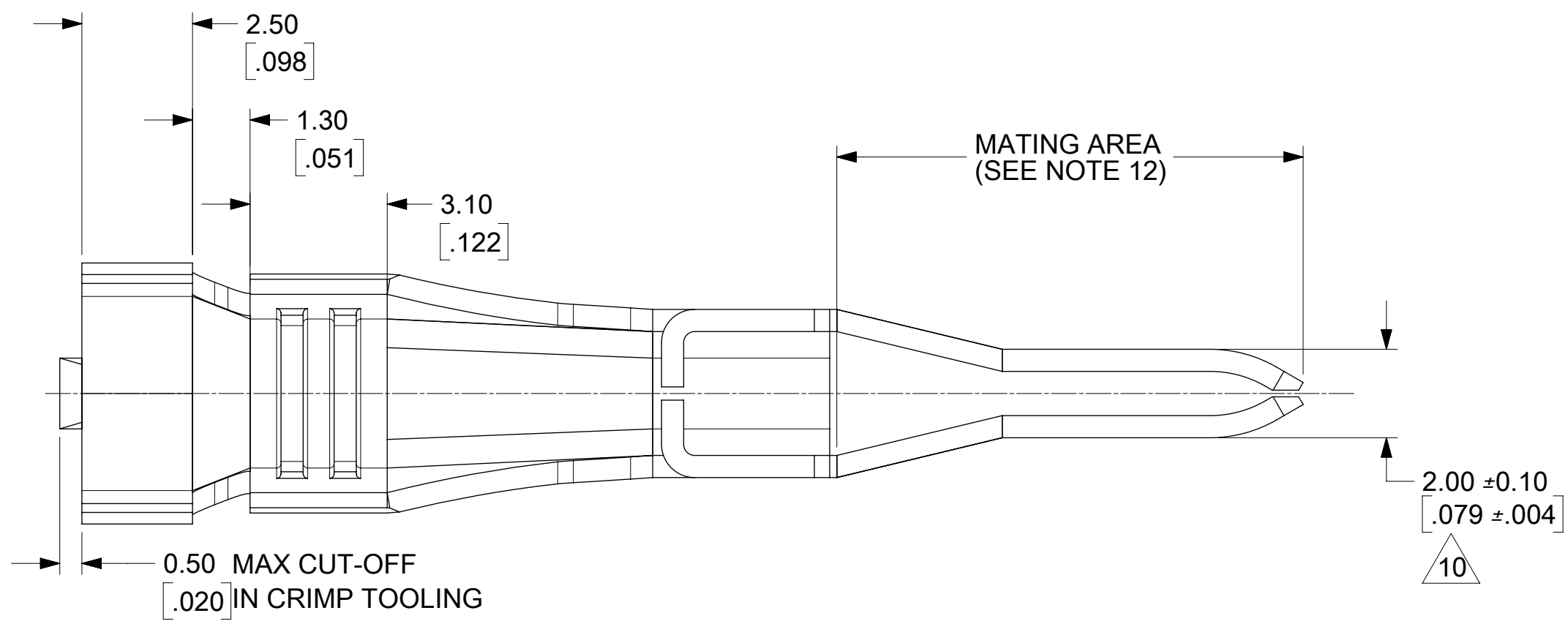


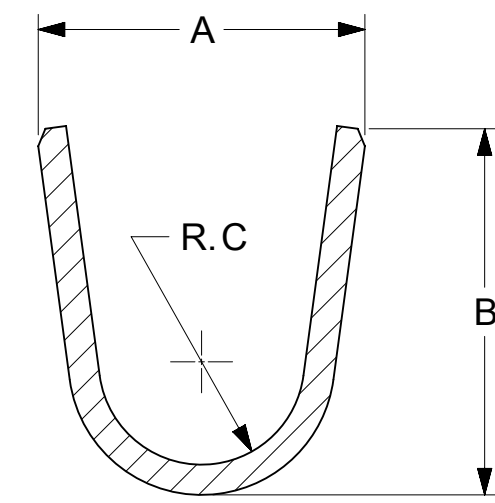


**THE DATASHEET OF**  
**0428170032**

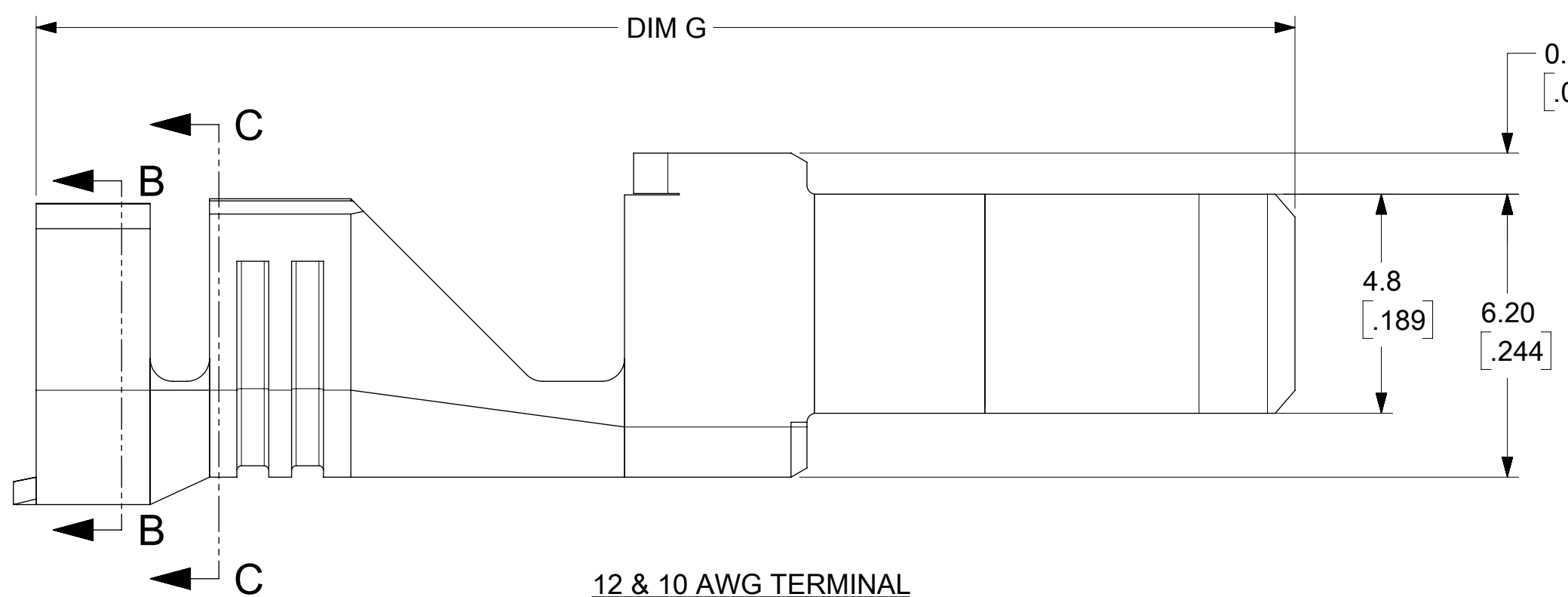




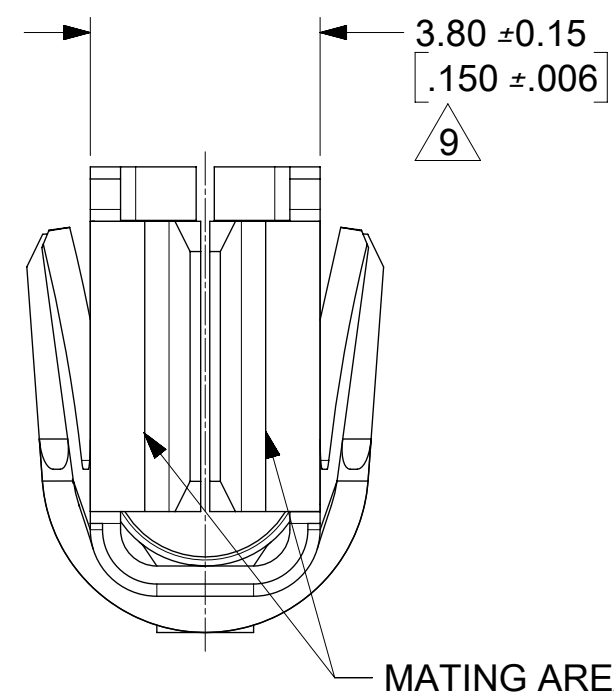
SECTION B-B



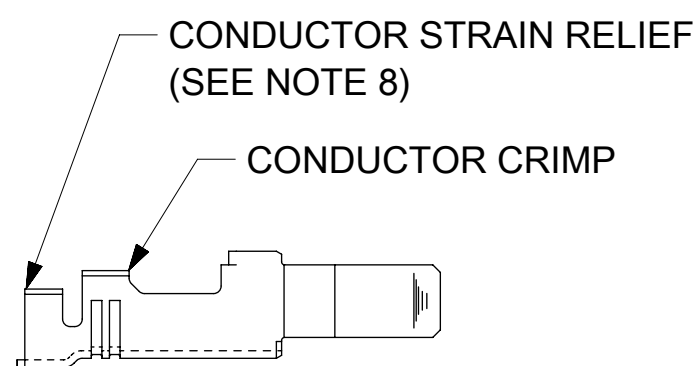
SECTION C-C  
(BACKGROUND OMITTED)



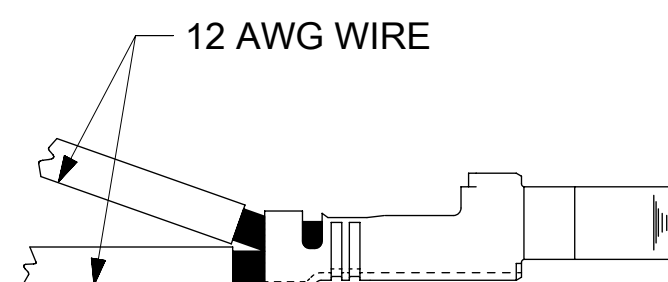
12 & 10 AWG TERMINAL



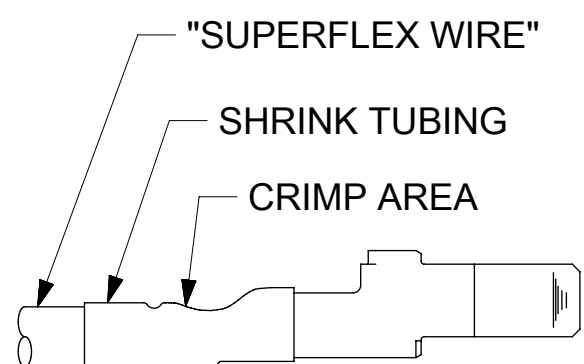
MATING AREA



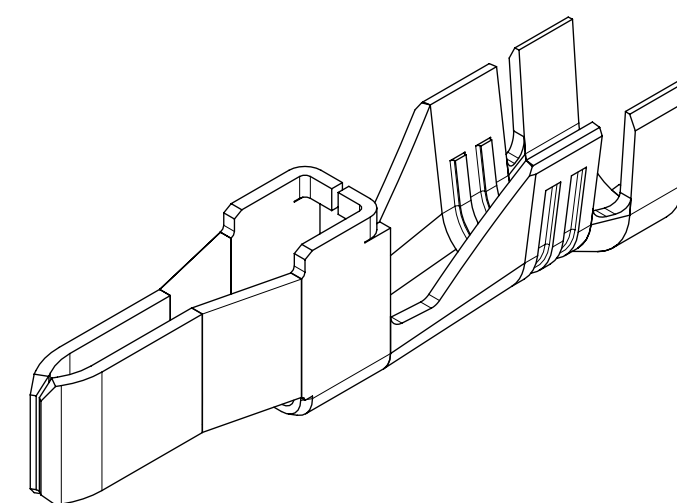
8 AWG TERMINAL  
(SEE NOTE 8)



8 AWG TERMINAL  
12 AWG DOUBLE CRIMP  
(SEE NOTE 13)



8 AWG TERMINAL  
(SEE NOTE 11)



ISOMETRIC VIEW  
(SCALE 4:1)

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																																																			
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515181																																															
MM/IN		8:1		<table border="1"> <tr> <td colspan="3">GENERAL TOLERANCES (UNLESS SPECIFIED)</td> <td colspan="3">EC NO: 794166</td> </tr> <tr> <td>4 PLACES</td> <td>±</td> <td></td> <td colspan="3">DRWN: VISHAH2 2024/05/27</td> </tr> <tr> <td>3 PLACES</td> <td>±</td> <td>0.01</td> <td colspan="3">CHK'D: GGA 2024/08/20</td> </tr> <tr> <td>2 PLACES</td> <td>±</td> <td>0.25 ± 0.016</td> <td colspan="3">APPR: GGA 2024/08/20</td> </tr> <tr> <td>1 PLACE</td> <td>±</td> <td>0.4</td> <td colspan="3">INITIAL REVISION:</td> </tr> <tr> <td>0 PLACES</td> <td>±</td> <td></td> <td colspan="3">DRWN: RJF 1992/07/01</td> </tr> <tr> <td colspan="3">ANGULAR TOL ± 0.5 °</td> <td colspan="3">APPR: RAS 1992/07/01</td> </tr> </table>						GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 794166			4 PLACES	±		DRWN: VISHAH2 2024/05/27			3 PLACES	±	0.01	CHK'D: GGA 2024/08/20			2 PLACES	±	0.25 ± 0.016	APPR: GGA 2024/08/20			1 PLACE	±	0.4	INITIAL REVISION:			0 PLACES	±		DRWN: RJF 1992/07/01			ANGULAR TOL ± 0.5 °			APPR: RAS 1992/07/01		
GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 794166																																																
4 PLACES	±		DRWN: VISHAH2 2024/05/27																																																
3 PLACES	±	0.01	CHK'D: GGA 2024/08/20																																																
2 PLACES	±	0.25 ± 0.016	APPR: GGA 2024/08/20																																																
1 PLACE	±	0.4	INITIAL REVISION:																																																
0 PLACES	±		DRWN: RJF 1992/07/01																																																
ANGULAR TOL ± 0.5 °			APPR: RAS 1992/07/01																																																
PRODUCT CUSTOMER DRAWING				DOCUMENT NUMBER		DOC TYPE		DOC PART REVISION																																											
				428170000-SD		PSD		000 A3																																											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER																																											
				C-SIZE		42817		SEE CHART																																											
CUSTOMER				GENERAL MARKET		SHEET NUMBER		1 OF 2																																											

**molex**

MALE CRIMP TERMINAL, 12, 10 & 8AWG  
MINI-FIT SR.

PRODUCT CUSTOMER DRAWING

428170000-SD

PSD 000 A3


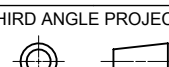
SEE CHART GENERAL MARKET 1 OF 2

ITEM NUMBER	WIRE RANGE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E	DIM. F	DIM. G	MAX. INSULATION DIAMETER	PLATING	STATUS
428170011	12 & 10 AWG (5 & 6mm <sup>2</sup> )	5.40±.60 [.213±.024]	6.10±.40 [.240±.016]	R 1.70 [.067]	5.90±.60 [.232±.024]	6.60±.40 [.260±.016]	R. 2.20 [.087]	27.60 [1.087]	5.30 DIA. [.209]	OVERALL TIN	PLANNED FOR OBSOLESCENCE
428170031	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	27.60 [1.087]	6.60 DIA. [.260]		
428170131	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	29.60 [1.165]	6.60 DIA. [.260]		
428170012	12 & 10 AWG (5 & 6mm <sup>2</sup> )	5.40±.60 [.213±.024]	6.10±.40 [.240±.016]	R 1.70 [.067]	5.90±.60 [.232±.024]	6.60±.40 [.260±.016]	R. 2.20 [.087]	27.60 [1.087]	5.30 DIA. [.209]	SELECT GOLD	ACTIVE
428170032	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	27.60 [1.087]	6.60 DIA. [.260]		
428170112	12 & 10 AWG (5 & 6mm <sup>2</sup> )	5.40±.60 [.213±.024]	6.10±.40 [.240±.016]	R 1.70 [.067]	5.90±.60 [.232±.024]	6.60±.40 [.260±.016]	R. 2.20 [.087]	29.60 [1.165]	5.30 DIA. [.209]		
428170132	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	29.60 [1.165]	6.60 DIA. [.260]	SELECT SILVER	ACTIVE
428171014	12 & 10 AWG (5 & 6mm <sup>2</sup> )	5.40±.60 [.213±.024]	6.10±.40 [.240±.016]	R 1.70 [.067]	5.90±.60 [.232±.024]	6.60±.40 [.260±.016]	R. 2.20 [.087]	27.60 [1.087]	5.30 DIA. [.209]		
428171034	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	27.60 [1.087]	6.60 DIA. [.260]		
428171114	12 & 10 AWG (5 & 6mm <sup>2</sup> )	5.40±.60 [.213±.024]	6.10±.40 [.240±.016]	R 1.70 [.067]	5.90±.60 [.232±.024]	6.60±.40 [.260±.016]	R. 2.20 [.087]	29.60 [1.165]	5.30 DIA. [.209]		
428171134	8 AWG	5.83±.60 [.229±.024]	7.42±.40 [.292±.016]	R 1.70 [.067]	6.00±.60 [.236±.024]	5.50±.40 [.216±.016]	R. 2.20 [.087]	29.60 [1.165]	6.60 DIA. [.260]		

NOTES:

- MATERIAL: COPPER ALLOY 151, .020/(.50) THICK.
- PLATING:
  - .000100/(.00254) MIN. TIN OVER  
.000050/(.00127) MIN. NICKEL.
  - .000030/(.00076) MIN. SELECT GOLD IN CONTACT AREA.  
.000100/(.00254) MIN. SELECT TIN ON SOLDER TAILS  
OVER .000050/(.00127) MIN. NICKEL.
  - .000100/(.00254) MINIMUM SELECT SILVER IN CONTACT AREA.  
.000100/(.00254) MIN. SELECT TIN ON SOLDER TAILS  
OVER .000050/(.00127) MIN. NICKEL.
- PRODUCT SPEC: PS-42815-001.
- PACKAGING INFORMATION: PK-42815-001.
- PART IS DESIGNED IN METRIC.
- TERMINALS FOR USE WITH STRANDED WIRE ONLY.
- ITEM NUMBERS PRECEDED BY AN "X" IN THE CHART ARE NOT AVAILABLE.
- 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.
- AFTER CRIMPING, THIS DIMENSION IS .140/(3.55) MINIMUM.
- AFTER CRIMPING, THIS DIMENSION IS .089/(2.25) MINIMUM.
- 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.

- 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. REFER AS-42815-001 FOR ADDITIONAL INFORMATION.
- THE 8 AWG TERMINAL WILL ALSO ACCOMODATE 2 12 AWG WIRES SEE CRIMP SPEC FOR DETAILS.
- THIS DRAWING REPLACES SD-42817-\*, REV J AND 428170000 REV. A.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS		SCALE		CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515181					
MM/IN		8:1		 MALE CRIMP TERMINAL, 12, 10 & 8AWG MINI-FIT SR.					
GENERAL TOLERANCES (UNLESS SPECIFIED)									
		MM	INCH	EC NO: 794166					
4 PLACES		±	±	DRWN: VISHAH2 2024/05/27					
3 PLACES		±	± 0.01	CHK'D: GGA 2024/08/20					
2 PLACES		± 0.25	± 0.016	APPR: GGA 2024/08/20					
1 PLACE		± 0.4	±	INITIAL REVISION:					
0 PLACES		±	±	DRWN: RJF 1992/07/01					
ANGULAR TOL		± 0.5 °		APPR: RAS 1992/07/01					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
						C-SIZE		42817	
DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION			
428170000-SD		PSD		000		A3			
MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
SEE CHART		GENERAL MARKET		2 OF 2					

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View 0428170032 on WIN SOURCE](#)

 [Molex, LLC Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management