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Jameco Part Number 229956

The subject products should meet the following requirements when tested under the condition of involving all circuits with terminals crimped on the specified maximum size wire.

1. Electrical Performance

	Item	Test Condition	Requirement
1-1	Rated voltage and current		1~15 CKTS. AC&DC 250V 5A
			24 CKTS. AC&DC 250V 4A
1-2	Contact resistance	Mate connectors measure by Dry Circuit, 20mV max., 10mA.	10 mΩ max.
1-3	Dielectric strength	When applied AC 1500V 1 minute between adjacent terminals or ground	No breakdown
1-4	Insulation resistance	When applied DC 500V between adjacent terminals or ground	1000 MΩ min.

2. Mechanical Performance

	Item	Test Condition	Requirement
2-1	Insertion force	Mating speed : 25±3mm/minute	See para 7
2-2	Extraction force	Disengaging speed : 25±3mm/minute	See para 7
2-3	Durability	When mated up to 30 cycles by the rate of 10 cycles per minute	Contact resistance 20 mΩ max.
			Insertion extraction force See para 7
2-4	Terminal retention force	Pull speed : 25±3mm/minute	7.0 kg min.
2-5	Terminal strength	When applied a load of 500gw, 1 minute	No damage

3. Environmental Performance

	Item	Test Condition	Requirement
3-1	Temperature rise	When carried the rated current	30 °C max.
3-2	Vibration	1.5mm,10-55-10Hz/min.,each 2 hrs. for X,Y&Z directions, applying 1mA-DC current	Contact resistance 20 mΩ max.
			Discontinuity 1 μsec. max.
			Appearance No damage
3-3	Shock	50G,each 3 times for X,Y,Z directions, applying 1mA-DC current	Discontinuity 1 μsec. max.
			Appearance No damage

REV. B

Item	Test Condition	Requirement	
3-4 Solderability	Soldering time : 3 ± 0.5 sec. Soldering pot : 230 ± 5 °C	Min. 3/4 of immersed area	
3-5 Resistance to soldering heat	Soldering time : 5 ± 0.5 sec. Soldering pot : 260 ± 5 °C	No damage	
3-6 Heat resistance	85 ± 2°C, 96 hours	Contact resistance	20 mΩ max.
		Appearance	No damage
3-7 Humidity	Temperature : 40±2°C Relative Humidity: 90~95% Duration : 96 hours Measurement must be taken within 30 minute after tested	Contact resistance	20 mΩ max.
		Dielectric strength	To pass para 1-3
		Insulation resistance	100 MΩ min.
		Appearance	No damage
3-8 Temperature cycling ( 5 cycles )	One cycle consists of (1) -55±3°C, 30 minute (2) Room temp. 10~15 minute (3) 105±2°C, 30 minute (4) Room temp. 10~15 minute	Contact resistance	20 mΩ max.
		Appearance	No damage
3-9 Salt Spray	Temperature: 35±2°C Solution : 5±1% Spray time : 48±4 hours Measurement must be taken after water rinse.	Contact resistance	20 mΩ max.
		Appearance	No significant corrosion
3-10 SO <sub>2</sub> Gas	24 hours in sulfur dioxide gas (SO <sub>2</sub> ) 50±5ppm at 40±2°C	Contact resistance	20 mΩ max.

4. Terminal To Be Used

	Customer P/No.	Molex P/No.	Wire Size	Insulation Dia.
1.		1560,1561	AWG #18 ~ #24	φ (1.5) ~ 3.1
2.		1854,1855	AWG #22 ~ #28	φ (1.1) ~ 1.5
3.		1778,1779	-----	-----
4.				

5. Ambient Temperature Range : -40°C ~ 105°C

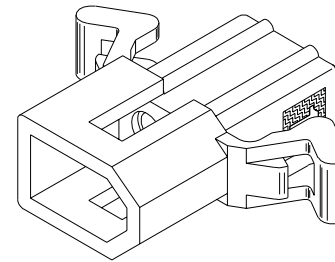
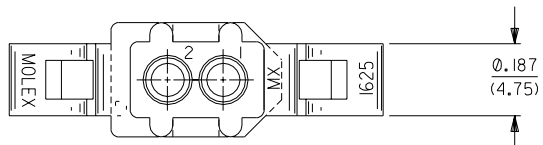
6. Construction, Dimension and Material : Specified by the attached drawing.

REV. B

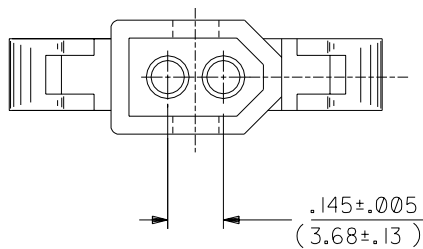
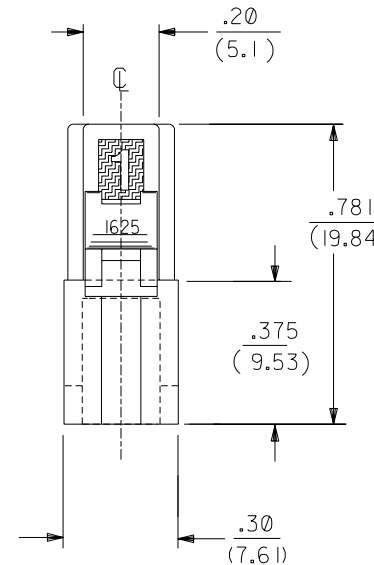
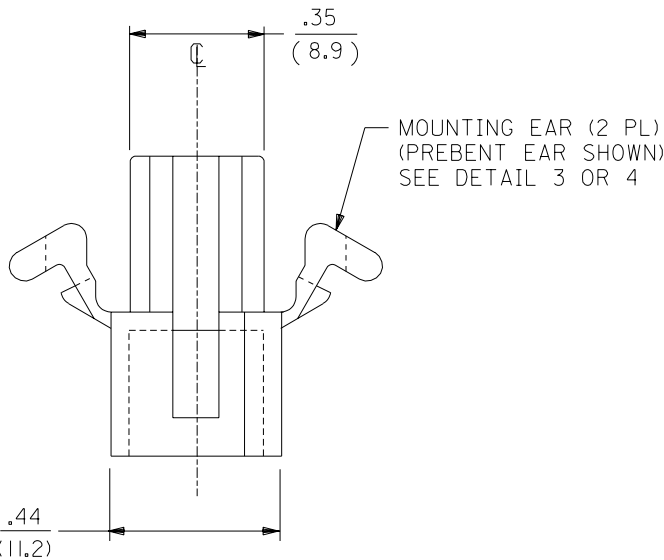
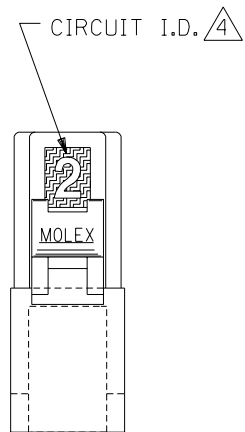
7. Insertion and Extraction Force

No of Ckt.	Insertion Force (kgf, max.)			Extraction Force (kgf, min.)		
	1st	6th	30th	1st	6th	30th
1	5.0	4.5	4.5	0.8	0.5	0.5
2	7.0	6.0	6.0	1.5	1.0	1.0
3	10.0	9.0	8.0	1.8	1.2	1.2
4	13.0	12.0	10.0	2.0	1.4	1.4
5	15.5	14.0	11.0	2.3	1.5	1.5
6	18.0	16.0	12.0	2.5	1.6	1.6
9	26.0	23.0	17.0	3.5	2.5	2.5
12	34.0	30.0	23.0	4.5	3.5	3.5
15	40.0	35.0	30.0	5.5	4.5	4.5
24	60.0	55.0	50.0	6.5	5.5	5.5

REV. B



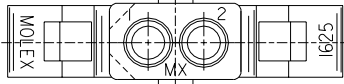
PLUG HOUSING



AE	REV DIM'S/OBS P/N'S UCP2003-1545 AELHAG, 03-01-31	
ADI	REVISED UCR1998-0112 WANG 98-04-07	
AD	REVISED ECN U81434 WANG 98-01-06	
AC	ADD -2R1 BU ECN #U6 1505 5-31-96 RW	
AB	CHG. -2R's TO -2R2's ECR U4 0671 CNC 5/26/94 RW	
AA	REMOVE 1625-2P ECR U2 1817 CNC 12/16/92 RW	
ZI	FINAL REL. -2P2BK ECN #U3 0328 3-2-93 RW	
Z	REVISE PER ECR U2 0850 CNC 6/8/92 RW	
Y	REVISE PER ECR U1 2251 CNC 11/20/91 RW	
X	REVISE PER ECR U1 1963 CNC 10/29/91 RW	
W	REVISE RECEPTACLE PER ECR U1 1034 CNC 7/2/91 RW	
V	ADD CKT ID RIBS ECR U0 0229 CNC 2/27/90 RW	
T	ADD -2PGN OPTION ECR # US 0979 8-21-89 RW	
S	REVISED PER ECR #U90390 GEP 4-26-89 RW	
R	ADDED OPTIONS ECR # U90277 KBW 03-22-89 RW	
P	REV. CORE DETAILS ECR # U8 1202 GEP 3-29-88 RW	
N	REDRAWN PER ECR #9482 7-27-87 ME/RW	

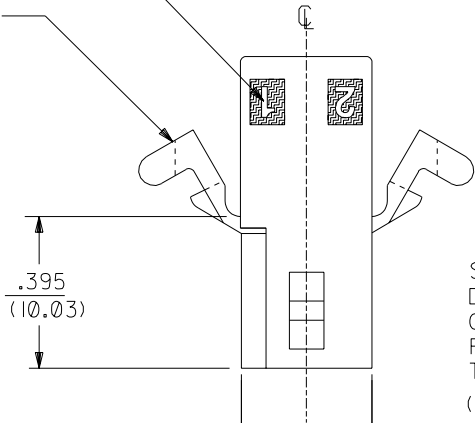
DIMENSIONS SHOWN (METRIC) INCH		▽ = 0	▼ = 0	REVISE ONLY ON CAD SYSTEM
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± .007				
INCH METRIC				
3 PLACE ± .007	---			
2 PLACE ± .010	± 0.18			
1 PLACE ---	± 0.25			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
DRWG. BY: JJS	CHK'D. BY: RW			
APP'D. BY: RAS	SCALE: 4:1			
TITLE: PLUG & RECEPTACLE HOUSINGS 2 CIRCUIT, .062/(1.57) DIA.				
MOLEX INCORPORATED		SHEET NO. 1 OF 3	DATE 4/13/88	
LITSE, ILL. 60532				
SEE CHART		SD-1625-2*		
FILE NAME: S16252X1		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.		
DIV. CP				

.187  
(4.75)



4 CIRCUIT I.D.

MOUNTING EAR (2 PL)  
(WHEN SPECIFIED)  
SEE DETAIL 3 OR 4



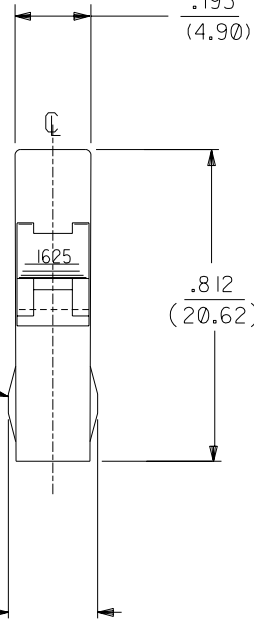
.395  
(10.03)

0.340  
(8.64)

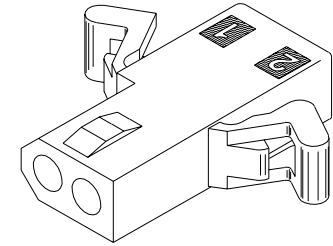
STANDARD  
DETENT SHOWN.  
OPTIONAL  
POSITIVE LOCK  
THIS SIDE ONLY  
(SEE NOTE 5)

0.233±.010  
(5.92±0.25)

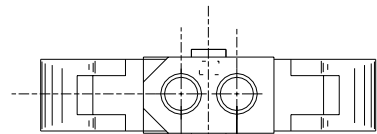
.193  
(4.90)



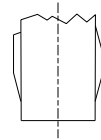
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(20.62)



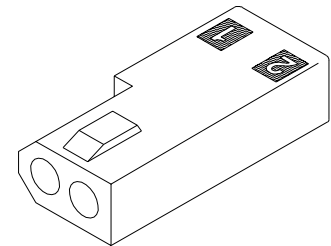
RECEPTACLE HOUSING  
(1625-2R2 SHOWN)



.145±.005  
(3.68±0.13)



OPTIONAL POSITIVE LOCK  
ONE SIDE ONLY  
SCALE 4:1



RECEPTACLE HOUSING  
(1625-2R3 SHOWN)

AD1	SEE SHT. I
AD	SEE SHT. I
X	SEE SHT. I
W	SEE SHT. I
V	SEE SHT. I
P	SEE SHT. I
AE	SEE SHT. I
LTR.	REVISIONS

DIMENSIONS SHOWN (METRIC) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± .10	
INCH METRIC	
3 PLACE ± .007	---
2 PLACE ± .010	± .18
1 PLACE ---	± .25
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
DRWG. BY: JJS	CHK'D. BY: RW
APP'D. BY: RAS	SCALE: 4:1

▽ = 0	▼ = 0	REVISE ONLY ON CAD SYSTEM	
TITLE PLUG & RECEPTACLE HOUSING 2 CIRCUIT, .062/(1.57) DIA.			
FROM: MOLEX INCORPORATED L1SLE,ILL. 60532 U.S.A.		SHEET NO. 2	DATE 4/14/88
PART NO. SEE CHART		DRWG. NO. SD-1625-2*	
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