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Jameco Part Number 224506

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
			Insertion extraction force
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
			Discontinuity 1 μ sec. max.
			Appearance No damage
3-3	Shock	50G,each 3 times for X,Y,Z directions, applying 1mA-DC current	Discontinuity 1 μ sec. 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 ₂ Gas	24 hours in sulfur dioxide gas (SO ₂) 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

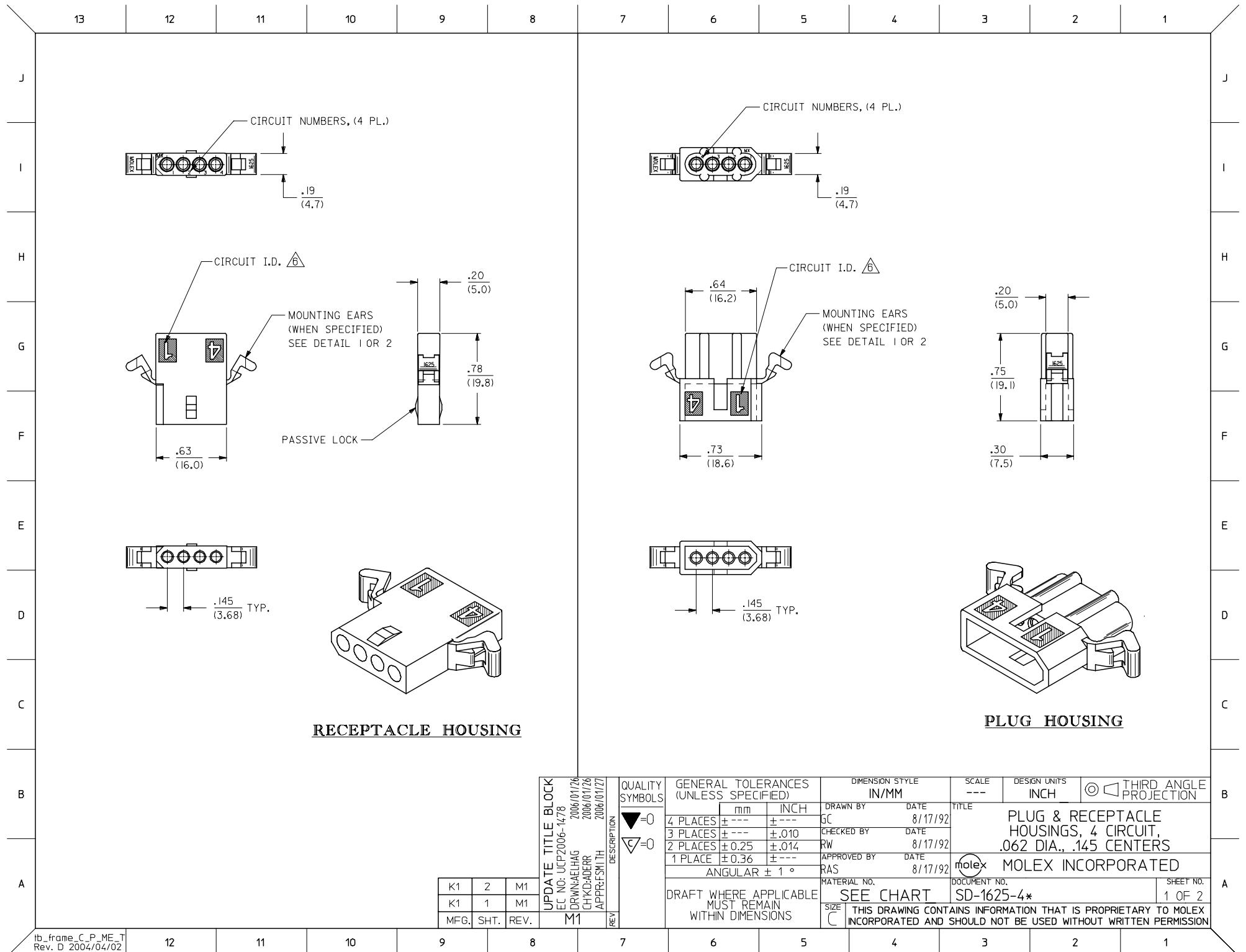
6. Construction, Dimension and Material : Specified by the attached drawing.

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



13	12	11	10	9	8	7	6	5	4	3	2	1
J	PLUG											J
	PART NO.	ENG. NO.										
	03-06-2041	I625-4P										
	03-06-7041	I625-4PBK	OBSOLETE									
I	03-06-2042	I625-4PI										I
	03-06-7042	I625-4PIBK										
	NOT TOOLED	I625-4P2										
I	NOT TOOLED	I625-4P2BK										I
	-	-										
H	RECEPTACLE											H
	PART NO.	ENG. NO.										
	03-06-1041	I625-4R										
	03-06-6041	I625-4RBK	OBSOLETE									
G	03-06-1042	I625-4RI										G
	03-06-6042	I625-4RIBK										
	50-29-1758	I625-4R2										
G	-	-										G
	-	-										
F												F
E												E
D												D
C	NOTES:											C
	1. MATERIAL - NYLON TYPE 6/6, 94V-2											
	2. FINISH: N/A.											
	3. THIS PRODUCT COMPLIES WITH MOLEX											
	PRODUCT SPEC 02-06.											
	4. PACKAGING: NOT SPECIFIED.											
	5. HOUSINGS FOR USE WITH MOLEX											
	.062/(1.57) DIA. SERIES TERMINALS.											
B	 CIRCUIT I.D. NUMBERS ON SIDE OF HOUSING APPEAR											B
	ON PARTS BUILT AFTER 8/10/92.											
A												A

LEGEND:

I625-4***

CIRCUIT SIZE

R = RECEPTACLE

P = PLUG

BLANK = WITH STANDARD MTG. EARS

I = WITHOUT EARS

2 = WITH PREBENT MTG. EARS

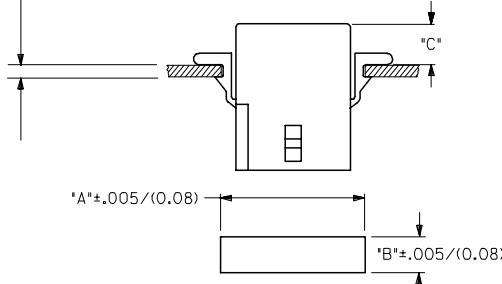
BLANK = NOT DYED

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW

MAX. PANEL THICKNESS .060/(1.52)



RECOMMENDED PANEL OPENING

HOUSING	DIM. "A"	DIM. "B"	"C" PREBENT EAR	"C" STANDARD EAR
PLUG	.865/.(21.97)	.312/.(7.92)	.19/.(4.8)	.18/.(4.6)
RECEPT.	.785/.(19.94)	.260/.(6.60)	.21/.(5.3)	.20/.(5.1)

ADD P/N 1625-4R2
EC NO: UCP2006-1478
DRAWN BY: JAG
CHK'D BY: HAG
APPR'D BY: HAG
REV: M1

QUALITY SYMBOLS
 = 0
 = 0

GENERAL TOLERANCES (UNLESS SPECIFIED)

DIMENSION STYLE
IN/MM

SCALE

DESIGN UNITS
INCH

THIRD ANGLE PROJECTION

GC

DATE
8/17/92

TITLE
PLUG & RECEPTACLE

HOUSINGS, 4 CIRCUIT,
.062 DIA., .145 CENTERS

RW

DATE
8/17/92

APPROVED BY
RAS

DATE
8/17/92

MATERIAL NO.

DOCUMENT NO.

SIZE

MOLEX INCORPORATED

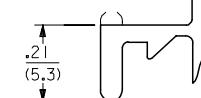
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SEE CHART

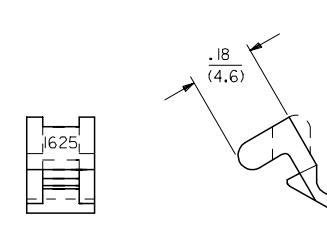
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2 OF 2

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DETAIL 1
STANDARD MOUNTING EARS
(SCALE 4:1)



DETAIL 2
PREBENT MOUNTING EARS
(SCALE 4:1)