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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 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 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

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	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 ± 5 ppm 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

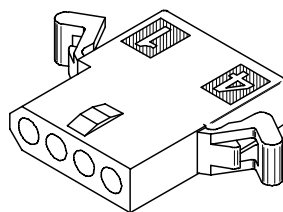
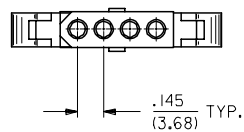
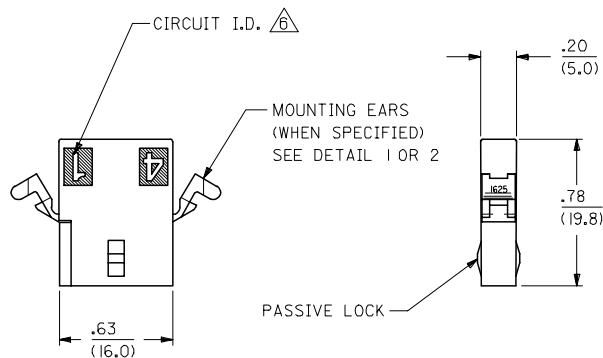
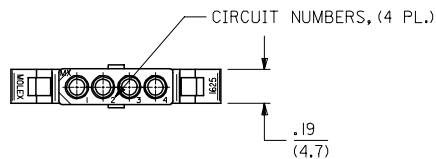
6. Construction, Dimension and Material : Specified by the attached drawing.

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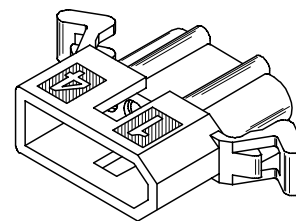
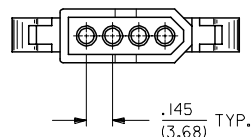
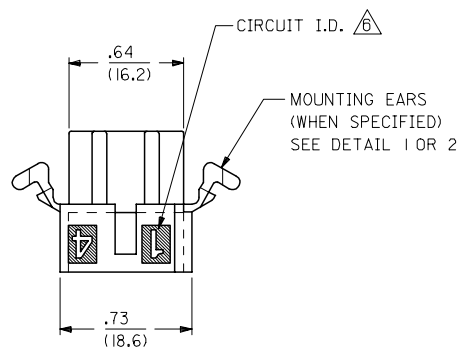
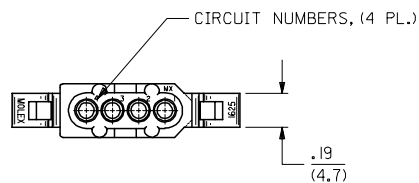
7. Insertion and Extraction Force

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



RECEPTACLE HOUSING



PLUG HOUSING


K1	2	M1
K1	1	M1
MFG.	SHT.	REV.

UPDATE TITLE BLOCK	EC NO: UCP2006-1478	2006/01/26
DRWN:AEHAG	CHKD:ADERR	2006/01/26
APPR:FSM TH		2006/01/27
REV	DESCRIPTION	
M1		

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)		
	mm	INCH
4 PLACES ±	---	---
3 PLACES ±	---	±.010
2 PLACES ±	0.25	±.014
1 PLACE ±	0.36	---
ANGULAR ± 1 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE	
IN/MM	
DRAWN BY	DATE
GC	8/17/92
CHECKED BY	DATE
RW	8/17/92
APPROVED BY	DATE
RAS	8/17/92
MATERIAL NO.	
SIZE	
C	

SCALE ---	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
TITLE		
PLUG & RECEPTACLE HOUSINGS, 4 CIRCUIT, .062 DIA., .145 CENTERS		
MOLEX INCORPORATED		
DOCUMENT NO. SD-1625-4*		SHEET NO. 1 OF 2
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