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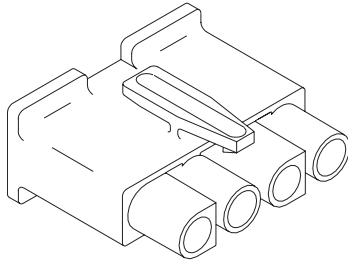
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Jameco Part Number 1960265

8.38mm (.330") Pitch HCS-125 Pin and Socket Receptacle

42179
Single Row



Circuits	Order No.
1	03-12-1016
2	03-12-1026
3	03-12-1036
4	03-12-1046

Features and Benefits

- The HCS-125 is an enhanced version of the Molex proven .125" system and meets the need for a connector system rated at greater than the industry standard 12.0A per circuit.
- Positive locks prevent accidental unmating
- Fully isolated terminals protect terminals
- Pull tabs
- 1, 2, 3 and 4 circuit housings

Reference Information

Packaging: Bag
 UL File No.: E29179
 CSA File No.: LR19980
 TUV License No.: R9151436
 Mates with: 42179 Plug housing
 Use With: .125" terminals
 Designed In: Inches

Electrical

Voltage: 600V
 Current: 20.0A
 Dielectric Withstanding Voltage: 1500V AC rms

Mechanical

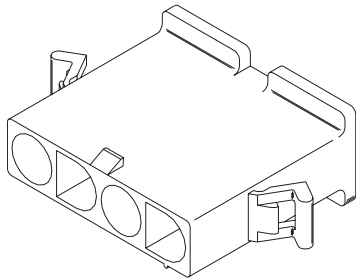
Contact Retention to Housing: 88.96N min.

Physical

Housing: Nylon, UL 94V-2
 Operating Temperature: -40 to +105°C
 Wire Accommodation: 10 to 18 AWG

8.38mm (.330") Pitch HCS-125 Pin and Socket Plug

42179
Single Row



Circuits	Order No.	
	Panel Mount	Free Hanging
1	03-12-2015	03-12-2016
2	03-12-2025	03-12-2026
3	03-12-2035	03-12-2036
4	03-12-2045	03-12-2046

Features and Benefits

- The HCS-125 is an enhanced version of the Molex proven .125" system and meets the need for a connector system rated at greater than the industry standard 12.0A per circuit.
- Positive locks prevent accidental unmating
- Fully isolated terminals protect terminals
- Pull tabs
- 1, 2, 3 and 4 circuit housings

Reference Information

Packaging: Bag
 UL File No.: E29179
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 TUV License No.: R9151436
 Mates With: 42179 Receptacle housing
 Use With: .125" terminals
 Designed In: Inches

Electrical

Voltage: 600V
 Current: 20.0A max.
 Dielectric Withstanding Voltage: 1500V AC rms

Mechanical

Contact Retention to Housing: 88.96N min.

Physical

Housing: Nylon, UL 94V-2
 Operating Temperature: -40 to +105°C
 Wire Accommodation: 10 to 18 AWG



PRODUCT SPECIFICATION

1.0 Scope
This specification covers the .125 inch (3.18 mm) diameter tin plated connector series terminated to 10 to 18 AWG wire using crimp technology.

2.0 Product Description
2.1 Product Name and Engineering number

Product Name	Engineering Number
Housing, plug and receptacle	42179
Terminal, socket, 10-14 AWG	1901
Terminal, pin, 10-14 AWG	1900
Terminal, socket, 16-18 AWG	2047
Terminal, pin, 16-18 AWG	2046
Terminal, socket, 16-18 AWG	8947
Terminal, pin, 16-18 AWG	42554
Terminal, socket, 16-18 AWG	42555
Terminal, pin, 10-14 AWG	42546
Terminal, socket, 10-14 AWG	42547

2.2 Materials, Platings, and Markings:
See the appropriate Sales Drawings for information on materials, platings and markings

3.0 Applicable documents and specifications:
See the Sales Drawing and the other sections of this specification for the necessary referenced documents and specifications.

4.0 Ratings:
4.1 Voltage: 600 volts
4.2 Current rating in amperes per circuit:

AWG	Circuit Size		
	1,2,3,4	6,8	10,12
10 - 14	20	TBD	TBD
16 - 18	12	TBD	TBD

4.3 Temperature: Operating -40 C to + 105 C
Non-operating -40 C to + 125 C

REVISION: 2	ECR/ECN INFORMATION: EC No: 10394861 DATE: 2008 / 11 / 24	TITLE: PRODUCT SPECIFICATION 42179 PLUG AND RECEPTACLE .125" DIAMETER TERMINALS	SHEET No. 1 of 4
DOCUMENT NUMBER: PSX-42179	CREATED / REVISED BY: AELHAG	CHECKED BY: JBELL	APPROVED BY: FSMITH



PRODUCT SPECIFICATION

5.0 Performance Specification
5.1 Electrical Performance

ITEM	TEST CONDITION	REQUIREMENT
Contact resistance (low level)	Mate connectors with a maximum voltage of 20 mV and a current of 10 mA	10 milliohms maximum
Insulation resistance	Mate connectors with a voltage of 500 VDC between adjacent terminals and between terminals to ground	1000 megohms minimum
Dielectric strength	Mate connectors with a voltage of 2200 VAC for 1 minute between adjacent terminals and between terminals and ground	No breakdown

5.2 Mechanical Performance

ITEM	TEST CONDITION	REQUIREMENT												
Terminal engagement and disengagement	Insert and withdraw terminals at a rate of 1 +/- 1/4 inch per minute (25 +/- 3mm per minute)	Avg engagement 5.75 lbf (2.8 kgf) Avg dis-engagement 3.4 lbf (1.53 kgf)												
Retention Force in housing	Axial pull out force on the terminal in the housing at a 1 +/- 1/4 inch per minute (25 +/- 3mm per minute)	30.0 lbf (13.8 kgf) minimum												
Wire pullout force (axial)	Apply an axial pullout force on the wire at a rate of 1 +/- 1/4 inch per minute (25 +/- 3mm per minute)	<table border="1"> <thead> <tr> <th>AWG</th> <th>Pullout force</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>78 lbf (35.4 kgf)</td> </tr> <tr> <td>12</td> <td>70 lbf (31.7 kgf)</td> </tr> <tr> <td>14</td> <td>50 lbf (22.7 kgf)</td> </tr> <tr> <td>16</td> <td>45 lbf (20.4 kgf)</td> </tr> <tr> <td>18</td> <td>30 lbf (13.6 kgf)</td> </tr> </tbody> </table>	AWG	Pullout force	10	78 lbf (35.4 kgf)	12	70 lbf (31.7 kgf)	14	50 lbf (22.7 kgf)	16	45 lbf (20.4 kgf)	18	30 lbf (13.6 kgf)
AWG	Pullout force													
10	78 lbf (35.4 kgf)													
12	70 lbf (31.7 kgf)													
14	50 lbf (22.7 kgf)													
16	45 lbf (20.4 kgf)													
18	30 lbf (13.6 kgf)													
Terminal Insertion Force (Axial)	Apply in axial insertion force on the terminal at a rate of 1 +/- 1/4 inch per minute (25 +/- mm per minute)	9.25 lbf (4.2 kgf) max												
Durability	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute	20 milliohm max change from initial												

REVISION: 2	ECR/ECN INFORMATION: EC No: 10394861 DATE: 2008 / 11 / 24	TITLE: PRODUCT SPECIFICATION 42179 PLUG AND RECEPTACLE .125" DIAMETER TERMINALS	SHEET No. 2 of 4
DOCUMENT NUMBER: PSX-42179	CREATED / REVISED BY: AELHAG	CHECKED BY: JBELL	APPROVED BY: FSMITH



PRODUCT SPECIFICATION

Vibration	Amplitude: .080" (1.5 mm) peak to peak Sweep: 10-55-10 Hertz in one minute Duration: 2 hours in each X-Y-Z axis	Appearance: no damage Contact resistance: 20 milliohm maximum change from initial. discontinuity: 1 micro second maximum
Mechanical shock	50 G's with three shocks in each X-Y-Z axis	Appearance: no damage. Contact resistance: 20 milliohm maximum change from initial. discontinuity: 1micro second maximum.

5.3 Environmental Performance

ITEM	TEST CONDITION	REQUIREMENT
Thermal shock	Mate connectors exposed for 5 cycles of: Temperature Duration -55 +/- 3 C 30 minutes +25 +/- 10 C 5 minute max +105 +/- 3 C 30 minutes +25 +/- 10C 5 minutes max	Appearance: No damage Contact resistance: 20 milliohm maximum change from initial
Thermal aging	Mate connectors exposed for 96 hours at 105 +/- 2 C	Appearance: No damage Contact resistance: 20 milliohm maximum change from initial
Humidity steady state	Mate connectors and expose to a temperature of 85 +/- 2C with a relative humidity of 90 to 95% for 98 hours	Appearance: No damage Contact resistance: 20 milliohm maximum change from initial
Temperature rise	Mate the connectors and measure the contact temperature at the rated current load	Maximum temperature of the terminal of 30 C above ambient

REVISION: 2	ECR/ECN INFORMATION: EC No: 10394861 DATE: 2008 / 11 / 24	TITLE: PRODUCT SPECIFICATION 42179 PLUG AND RECEPTACLE .125" DIAMETER TERMINALS	SHEET No. 3 of 4
DOCUMENT NUMBER: PSX-42179	CREATED / REVISED BY: AELHAG	CHECKED BY: JBELL	APPROVED BY: FSMITH



PRODUCT SPECIFICATION

6.0 Packaging

Parts shall be packaged to protect against damage during handling, transit, and storage. No Styrofoam shall be used in any packaging that comes in direct contact with the connectors.

7.0 Gages and Fixtures

8.0 Other Information

8.1 Agency Approval and listings

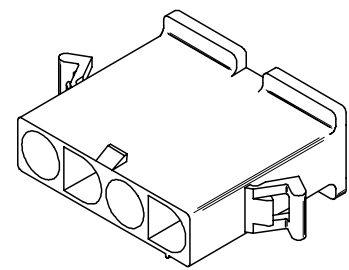
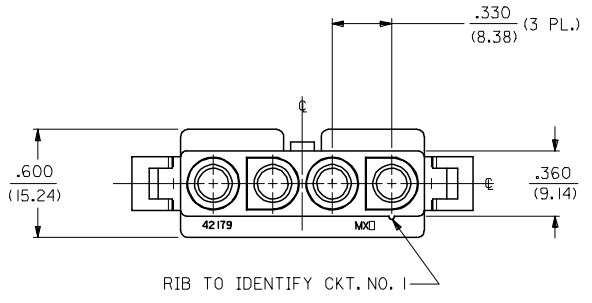
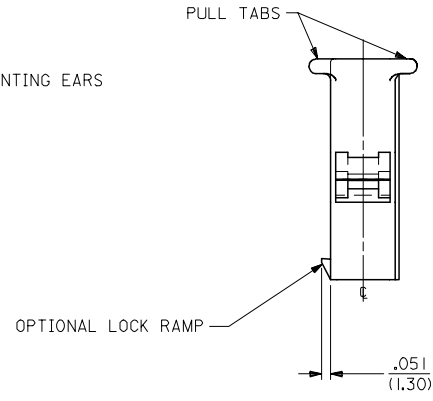
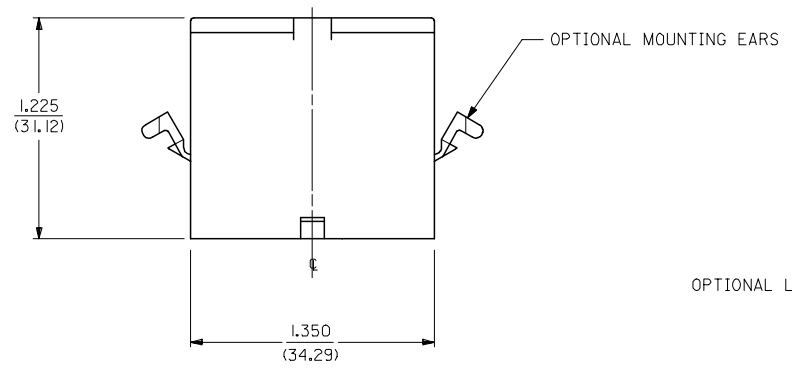
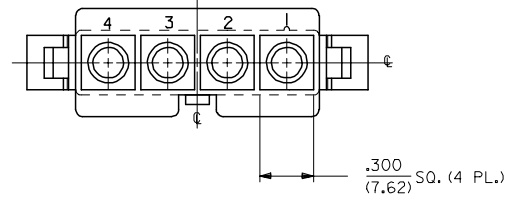
UL File # E29179
CSA File # 19980
VDE File # Applied For

REVISION: 2	ECR/ECN INFORMATION: EC No: 10394861 DATE: 2008 / 11 / 24	TITLE: PRODUCT SPECIFICATION 42179 PLUG AND RECEPTACLE .125" DIAMETER TERMINALS	SHEET No. 4 of 4
DOCUMENT NUMBER: PSX-42179	CREATED / REVISED BY: AELHAG	CHECKED BY: JBELL	APPROVED BY: FSMITH

13 12 11 10 9 8 7 6 5 4 3 2 1

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PLUG

UPDATE TITLE BLOCK EC NO. UCP2007-2085 DRAWN/PRI/DDR 2007/04/13 CHKD: AEL/HAG 2007/04/16 APPR: FSM/TH 2007/04/19 REV DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	=0 =0	mm INCH 4 PLACES ± .005 ± .001 3 PLACES ± .005 ± .007 2 PLACES ± 0.18 ± .010 1 PLACE ± 0.25 ± .010 ANGULAR ±1/2°	IN/MM	2:1	INCH	☉ THIRD ANGLE PROJECTION
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART			TITLE .125/(3.17) HOUSINGS, PLUG AND RECEPTACLE, 4 CKT .330/(8.38) CTRS.
						MOLEX MOLEX INCORPORATED MATERIAL NO. SD-42179-4* DOCUMENT NO. SHEET NO. 2 OF 3

12 11 10 9 8 7 6 5 4 3 2 1

PLUG		
PART NO.	ENG. NO.	
03-12-2046	42179-4P1	
03-12-2045	42179-4P	
03-12-7042	42179-4PYW	
03-12-7043	42179-4PIYW	
03-12-7040	42179-4PBK	
03-12-7041	42179-4P1BK	
03-12-7044	42179-4PIRD	OBSOLETE
03-12-7045	42179-4P2	

RECEPTACLE	
PART NO.	ENG. NO.
03-12-1046	42179-4R1
03-12-6040	42179-4R1BK
03-12-6041	42179-4R1YW

LEGEND:

42179-4***

CIRCUIT SIZE: _____

HOUSING TYPE: _____

P = PLUG

R = RECEPTACLE

FEATURE OPTIONS: _____

BLANK = WITH MOUNTING EARS (PLUG ONLY)

1 = WITHOUT MOUNTING EARS

2 = WITH MOUNTING EARS (PLUG ONLY); WITHOUT LOCKING RAMP

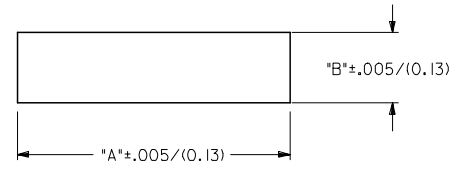
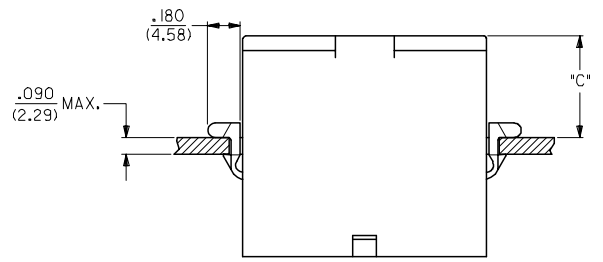
COLOR: _____

BLANK = 94V-2; TRANSLUCENT NATURAL COLOR

AM=AMBER BK=BLACK BU=BLUE

BN=BROWN GY=GRAY GN=GREEN

OR=ORANGE RD=RED YW=YELLOW



HOUSING	DIM. "A"	DIM. "B"	DIM. "C"
PLUG	1.511/(38.38)	.440/(11.18)	.57/(14.5)

NOTES:

1. MATERIAL: NYLON (PA), UL94V-2, COLOR-NATURAL (TRANSLUCENT)
2. FINISH: NONE
3. PRODUCT SPECIFICATION: NONE
4. PACKAGING SPECIFICATION: PK-42179-001
5. PART ACCEPTS A MAXIMUM .250/(6.35) INSULATION DIAMETER WIRE.
6. FOR USE WITH ALL MOLEX .125/(3.17) DIAMETER SERIES TERMINALS EXCEPT THE 1219/1220 SERIES.
7. PARTS CONFORM TO CLASS B REQUIREMENT OF COSMETIC SPECIFICATION PS-45499-002

OBS. P/N 03-12-7044 EC NO. UCP2007-2085 DRAWN/PRD/DR 2007/04/13 CHKD: AEL/HAG 2007/04/16 APPR: FSM/TH 2007/04/19	QUALITY SYMBOLS
	▽=0
	▽=0
	REV

GENERAL TOLERANCES (UNLESS SPECIFIED)	
mm	INCH
4 PLACES ± .005	± .0007
3 PLACES ± .007	± .0010
2 PLACES ± 0.18	± .010
1 PLACE ± 0.25	± .010
ANGULAR ± 1 °	

DIMENSION STYLE	
IN/MM	DATE
DRAWN BY	GEP
CHECKED BY	RW
APPROVED BY	RAS
MATERIAL NO.	

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
2:1	INCH	☉
TITLE		
.125/(3.17) HOUSING, PLUG AND RECEPTACLE, 4 CKT .330/(8.38) CTRS.		
MATERIAL NO. SD-42179-4*		
DOCUMENT NO. 3 OF 3		
SHEET NO. 3 OF 3		
SIZE C THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		