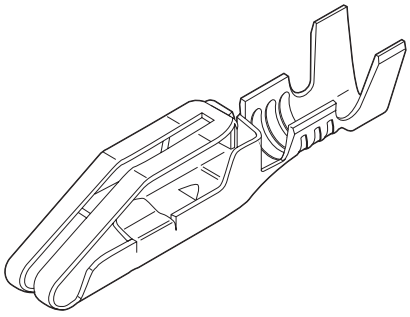
Jameco Part Number 1960281

3.96mm (.156") Pitch Double-Sided Edge KK® Connector Terminals

4366

PC Crimp and Solder Eyelet



Features and Benefits

- Solder loop version available
- Anti-fishhooking feature prevents terminals from snagging
- Wire barrier prevents stripped wire from entering the contact area
- Coined outside edges prevent excess scoring of the solder pad surfaces
- Patented bifurcated contact area
- Anti-overstress feature

Reference Information

Packaging: Reel or bag
Use With: 4338
Designed In: Inches

Electrical

Voltage: 250V
Current: 5.0A
Contact Resistance: 20 milliohms max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 50,000 Megohms min.

Mechanical

Contact Retention to Housing: 8 lb min.
Wire Pull-Out Force: 20 lb for 18 AWG
(less for smaller wire)

Physical

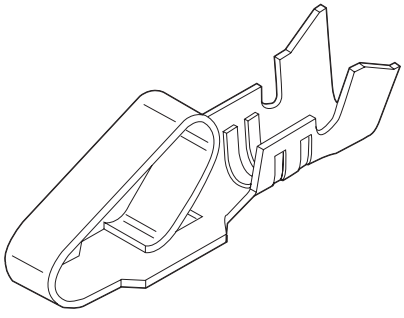
Contact: Brass
Plating: See Table
Operating Temperature: 0 to +75˚C

Order No.		Crimp Wire Size	Maximum Insulation Diameter	Engineering No.	Plating	Lead-free
Reel Form	Bag Form					
08-03-0303	08-03-0304	18-20	2.79 (.110)	4366	Tin	Yes
08-05-0301	08-05-0302			4366	Gold	

www.molex.com/product/edgecard/

3.96mm (.156") Pitch KK® Crimp Terminal

2478/2578



Features and Benefits

- Double cantilever design
- Single beam terminal is available for low insertion force 7821 Series (contact Molex)
- For low-level current and voltage, use Gold plating
- Phosphor Bronze is recommended for rated current
- Complete line of terminal crimping equipment available (see Application Tooling section of this catalog)

Reference Information

Product Specification: PS-08-50
Packaging: Reel or bag
Tooling Information: See crimp tooling section
UL File No.: E29179
CSA File No.: LR19980
Use With: 2139, 3069 and 41695
Designed In: Inches

Electrical

Voltage: 250V AC max.
Current: Max.

AWG	18	20	22	24	26
Phosphor Bronze	7.00A	6.25A	5.50A	5.00A	4.50A
Brass	5.00A	4.75A	4.50A	4.25A	4.00A

Contact Resistance: 6 milliohms max.
Dielectric Withstanding Voltage: 1500V AC
Insulation Resistance: 50K Megohms min.

Mechanical

Contact Insertion Force: 1.8kg (4 lb) max.
Contact Retention to Housing: 3.6kg (8 lb) min.
Wire Pull-Out Force: 20 lb max./18 AWG
Normal Force: 0.75kg (1.65 lb)
Durability: 25 cycles max.

Physical

Contact: Brass or Phosphor Bronze
Plating: See Table
Operating Temperature: Phosphor Bronze—0 to +75˚C
Brass—0 to +50˚C

Order No.						Wire Size AWG	Insulation OD	Series	Material	Lead-free
Tin Plating		Gold Plating No. 1		Gold Plating No. 2						
Reel	Bag	Reel	Bag	Reel	Bag					
08-52-0071	08-52-0072	08-58-0121	08-58-0122	08-65-0114	08-65-0115	18-20	2.79 (.110)	max. 2478	Phosphor Bronze	Yes
08-50-0105	08-50-0106	08-56-0105	08-56-0106	08-55-0103	08-55-0104	18-20	2.79 (.110)	max. 2478	Brass	
08-50-0133	08-50-0134	08-58-0125	08-58-0126	08-65-0116	08-65-0117	22-26	1.65 (.065)	max. 2578	Phosphor Bronze	
08-50-0107	08-50-0108	08-56-0107	08-56-0108	08-55-0105	08-55-0106	22-26	1.65 (.065)	max. 2578	Brass	

Recommended wire range assumes stranded wire
Plating No. 1: 20µ" min. Gold in contact area with a flash overall
Plating No. 2: 15µ" min. Gold in contact area only

PRODUCT SPECIFICATION

DUALCON TM
STRAIGHT/ON EDGE DUAL POSITION CONNECTOR

1.0 SCOPE
This Product Specification covers the 3.96 mm (.156 inch) centerline (pitch) straight/on edge Dualcon – TM connectors terminated with 18 to 30 AWG wire when mated to the edge of a printed circuit board (PCB).

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS
Crimp terminals: 4366 (18 – 24 AWG; Insulation Dia. .060-.120), 4573 (24 – 30 AWG; Insulation Dia. .040 - .090)
Solder lug terminals: 4574
Split – eyelet terminals: 4873
Housings: 4338

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS
Terminal Material: Alloy 260 brass, .010 thick
Housing Material: Glass filled polyester, UL – 94 V – 0

2.3 SAFETY AGENCY APPROVALS
UL File Number……E29179
CSA……..LR19980

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS
None

4.0 RATINGS

4.1 VOLTAGE
Rated voltages, current maximum voltage: 250 VAC

4.2 CURRENT
Up to 5 amps maximum per circuit is possible (*)
(*) Current capacity is dependent on wire size, connector size, contact material/plating, ambient temperature, printed circuit board characteristics and related factors.

4.3 TEMPERATURE
Ambient Temperature Range: -40°C to 120°

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
1	**Terminal Resistance (Voltage drop measured at 1 amp)**	Depends greatly on mating P.C. board and finish and condition of mating surface. One probe should be placed on the wire approximately 1" from the crimp barrel and the other probe on the P.C. board conductor as close as possible to the terminal interface (18 GA. Wire).	**5.0 mV** Typical value Includes the terminal, P.C.B. interface, plus the crimp.
2	**Dielectric Withstanding Voltage**	Unmate connectors: apply a voltage of **1500** VAC for **1** minute between adjacent terminals and between terminals to ground.	No breakdown; current leakage < **5** mA
3	**Temperature Rise (via Current Cycling)**	Mate connectors: measure the temperature rise at the rated current after: 1.) **96** hours (steady state) 2.) **240** hours (**45** minutes ON and **15** minutes OFF per hour). 3.) **96** hours (steady state)	Temperature rise: **+30**°C MAXIMUM

5.2 MECHANICAL REQUIREMENTS (continued)

ITEM	DESCRIPTION	TEST CONDITION	REQUIREMENT
4	**Terminal Retention Force (in Housing)**	Axial pullout force on the terminal in the.	**44.48** N (**10** lbf) MINIMUM retention force
5	**Wire Pullout Force (Axial)**	Apply an axial pullout force on the wire.	AWG / N / lbf 18 **88.96** **20** 20 **66.72** **15** 22 **53.38** **12** 24 **35.59** **8** 26 **22.24** **5** 28 **13.34** **3** 30 **8.90** **2**
6	**Terminal Insertion Force (into Housing)**	Apply an axial insertion force on the terminal.	**13.34** N (**3** lbf) Avg. insertion force
7	**Normal Force**	Apply a perpendicular force.	**3.43** N (**350** g) approx.
8	**PCB Engagement and Separation Forces**	Engage and separate a connector at a rate. (Depends on the number of circuits and the actual size and type of P.C. board)	**3.89** N (**.875** lbf) Typical insertion force **1.11** N (**.25** lbf) Typical withdrawal force (Typical force per dual circuits)

6.0 PACKAGING

Parts shall be packaged to protect against damage during handling, transit and storage.

7.0 GAGES AND FIXTURES

8.0 OTHER INFORMATION

Polarizing key (between contacts) # 6532 polyester, color: natural.
Polarizing key (replaces contacts) #4338-* polyester, color: natural.

4366

NOTES

1) MATERIAL: BRASS, ALLOY 260, .010/(0.25) THICK.

2) FINISH:

P555: .000015/(0.00038) MIN. SELECT GOLD OVER .000030/(0.00076) MIN. NICKEL OVERALL.

P913: .000100/(0.00254) - .000250/(0.00635) HOT TIN-LEAD DIP.

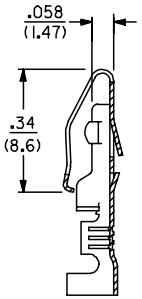
P607: .000050/(0.00127) MIN. SELECT GOLD OVER .000050/(0.00127) MIN. NICKEL OVERALL.

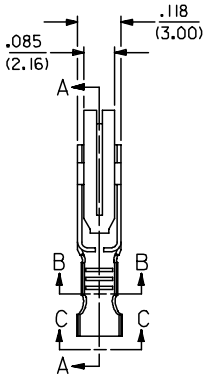
P228: .000030/(0.00076) MIN. SELECT GOLD ON CONTACT AREA, .000100/(0.00254) MIN. SELECT MATTE TIN, BOTH OVER .000050/(0.00127) MIN. NICKEL OVERALL.

3) PRODUCT SPECIFICATION PS-09-50 APPLIES.

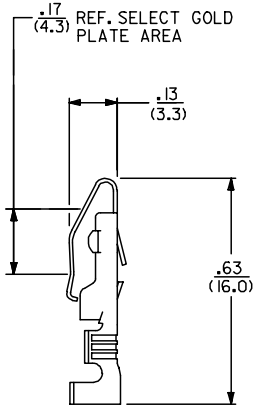
4) TERMINAL FOR USE WITH 18-24 AWG WIRE.

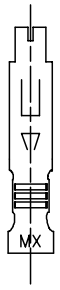
5) THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPEC. PS-45499-002 .





SECTION A-A



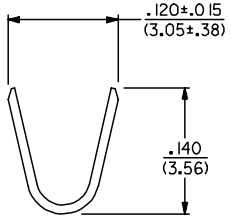


LEGEND

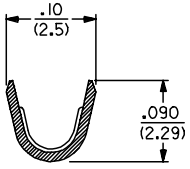
4366-**

PLATING (SEE NOTE 2)

FORM
BLANK=CHAIN
L=LOOSE



VIEW C-C



SECTION B-B

REV	DESCRIPTION	DATE
C1	ADD P228 FINISH EC NO: UCP2007-3134 DRWN:MKIPPER CHKD:ADERR APPR:FSMITH	2007/06/13 2007/06/18 2007/06/19
2	C1	
1	C1	
SHT.	REV.	

QUALITY SYMBOLS

▼=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM

SCALE: 4:1

DESIGN UNITS: INCH

THIRD ANGLE PROJECTION

DRAWN BY	ROBERTS	DATE 1991/08/15
CHECKED BY	PATEL	DATE 1991/08/15
APPROVED BY	LENZ	DATE 1991/08/15

TITLE: TERMINAL CRIMP ON

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART

DOCUMENT NO.: SD-4366

SHEET NO.: 1 OF 2

SIZE: C

PART NO.	ENG. NO	REF.
08-03-0304	4366-P913L	
08-03-0303	4366-P913	
08-05-0302	4366-P555L	ES-150-*
08-05-0301	4366-P555	ES-150-*
08-05-0305	4366-P607	ES-150-*
50-36-1873	4366-P228	ES-150-*

PART NO.	ENG. NO

PART NO.	ENG. NO

PART NO.	ENG. NO

COLUMN NO. 1	CON'T. IN COLUMN NO.	SHEET NO.
COLUMN NO. 2	CON'T. IN COLUMN NO.	SHEET NO.
COLUMN NO. 3	CON'T. IN COLUMN NO.	SHEET NO.
COLUMN NO. 4	CON'T. IN COLUMN NO.	SHEET NO.

ADD P/N 50-36-1873
EC NO: UCP2007-3134 2007/06/13
DRWN:MKIPPER 2007/06/18
CH'KD:ADERR 2007/06/19
APPR:FSMITH
DESCRIPTION
C1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY	ROBERTS	DATE 1991/08/28
CHECKED BY	PATEL	DATE 1991/08/28
APPROVED BY	LENZ	DATE 1991/08/28

TITLE: TERMINAL CRIMP ON

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-4366
SHEET NO.: 2 OF 2
SIZE: C