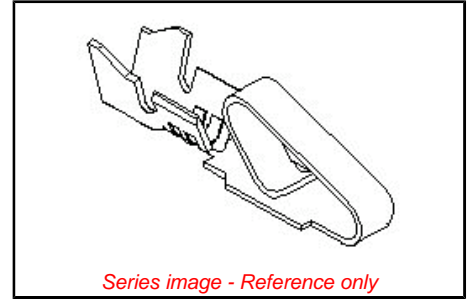


**Part Number:** [0008500106](#)  
**Status:** **Active**  
**Overview:** [KK@](#)  
**Description:** 3.96mm (.156") Pitch KK@ Crimp Terminal 2478, 18-24 AWG, Bag, Brass Tin (Sn)



### General

Product Family	Crimp Terminals
Series	2478
Overview	<a href="#">KK@</a>
Product Name	KK@

### Physical

Gender	Female
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Packaging Type	Bag
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.50
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50
Termination Interface: Style	Crimp or Compression
Wire Insulation Diameter	2.79mm (.110") max.
Wire Size AWG	18
Wire Size AWG	20
Wire Size AWG	22
Wire Size AWG	24
Wire Size mm <sup>2</sup>	N/A

### Material Info

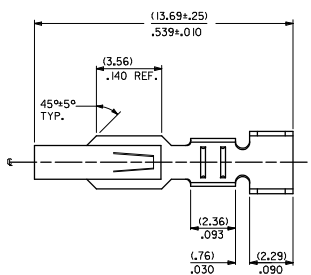
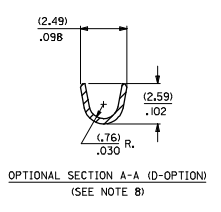
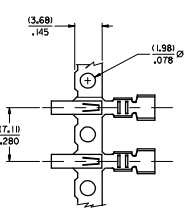
Old Part Number	2478-1-(P909)L
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**EU RoHS**  
**ELV and RoHS**  
**Compliant**

**China RoHS**



20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1



2478- \* - \* - \*

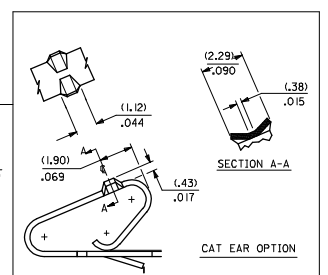
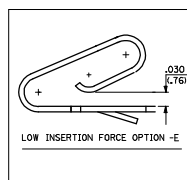
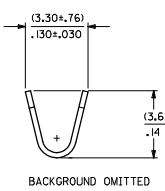
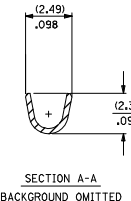
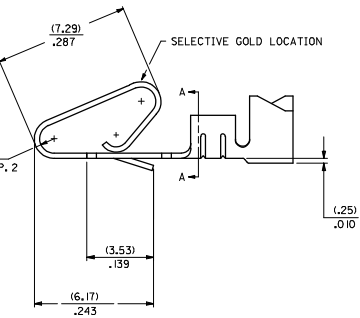
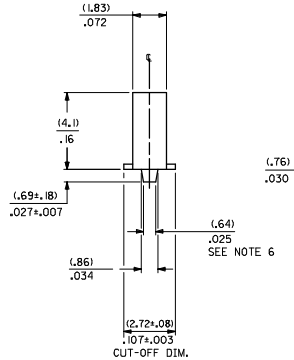
MATERIAL CODE  
L=27/.0106 THK  
1=BRASS  
3=PHOS BRONZE

OPTION CODE  
BLANK-AS SHOWN  
C=CAT EAR OPTION  
D=OPTIONAL CONDUCTOR CRIMP (FOR IRELAND)  
(SEE OPT. SECTION A-A) WITHOUT CAT EARS  
E=LOW INSERTION FORCE OPTION

WINDING SPEC.  
A=PER ES-339-A  
BLANK=PER ES-339-B  
L=LOOSE

FINISH: PER SDES-88  
(P909) \*OVERALL HOT TIN DIP: 2.54 MICROMETERS MIN.  
(550) SELECT GOLD: 0.38 MICROMETERS MIN.  
OVERALL GOLD FLASH: 0.05 MICROMETERS MIN.  
OVERALL NICKEL UNDERPLATE: 0.76 MICROMETERS MIN.  
(555) SELECT GOLD: 0.38 MICROMETERS MIN.  
OVERALL NICKEL UNDERPLATE: 0.76 MICROMETERS MIN.

\*THE PRIMARY SHIPPING CARTON WILL BE LABELED 'COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC'. CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN/LEAD PLATING.



- NOTES:
- CRIMP ACCEPTS 18 TO 24 GA. WIRE WITH (2.79)/.110 MAX. INSUL. DIA. WHEN USED WITH 2574 CONNECTOR.  
(2.54)/.100 MAX. INSUL. DIA. WHEN USED WITH 2139 CONNECTOR.  
HOUSING 41695 IS RECOMMENDED FOR OVER (2.54)/.100 DIA. INSULATION.  
CRIMP ACCEPTS (3.00)/.118 MAX. INSUL. DIA. WITH SPECIAL TOOLING.
  - DIMENSIONS GIVEN ACROSS CENTERLINES ARE SYMMETRICAL ABOUT THOSE CENTERLINES WITHIN HALF THE TOTAL TOLERANCE.
  - 
  - 
  - 
  - (.86±.05)/.034±.002 IS AN OPTIONAL DESIGN.
  - THIS PART CONFORMS TO PRODUCT SPEC. 08-50.
  - CONDUCTOR CRIMP FOR 16 AWG. WIRE WITH .110 MAX. INSULATION DIA.

CHANGE TO MEMO E.C. NO. 11E/2005-4602 W APPROVED BY: 2006/01/28 APPROVED BY: 2006/01/28	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$\nabla=0$ $\nabla=0$	4 PLACES ±--- INCH 3 PLACES ±--- ±.010 2 PLACES ±.025 ±.014 1 PLACE ± 0.36 ±--- ANGULAR ±1/2°	IN/MM INCH	DRAWN BY: DATE SAMIEC 06/03/86 CHECKED BY: DATE PATEL 06/03/86 APPROVED BY: DATE LENZ 06/03/86	FILE CRIMP TERMINAL .156 CENTERS 18 TO 24 GA WIRE	MOLEX INCORPORATED	SHEET NO. 1 OF 2
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE CHART	MATERIAL NO. SD-2478	DOCUMENT NO. SD-2478			
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

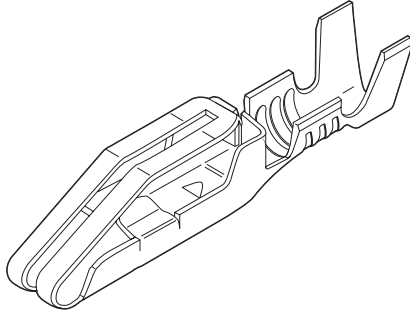
h:\frame\_d\_p\_ah.t Rev. D 2004/06/28 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

2478-1-(***)*		2478-3-(***)*		2478-IC-(***)*		2478-3C-(***)*		2478-ID-(***)*		2478-3E-(***)*	
PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.
08-50-0105	2478-1-(P909)	08-52-0071	2478-3-(P909)	08-50-0014	2478-IC-(P909)	08-52-0044	2478-3C-(P909)	08-50-0055	2478-ID-(P909)		2478-3E-(P909)
08-50-0106	2478-1-(P909)I	08-52-0072	2478-3-(P909)I	08-50-0045	2478-IC-(P909)I	08-52-0045	2478-3C-(P909)I	08-50-0056	2478-ID-(P909)I		2478-3E-(P909)I
08-56-0105	2478-1-(550)	08-55-0114	2478-3-(555)	08-50-0047	2478-IC-(P102)	08-52-0023	2478-3C-(102)				2478-3E-(555)
08-56-0106	2478-1-(550)I	08-55-0115	2478-3-(555)I	08-50-0046	2478-IC-(P102)I	08-52-0024	2478-3C-(102)I				2478-3E-(550)I
08-55-0103	2478-1-(555)	08-52-0073	2478-3-(P102)	08-50-0091	2478-IC-(102)	08-52-0027	2478-3C-(122)				2478-3E-(550)
08-55-0104	2478-1-(555)I	08-52-0074	2478-3-(P102)I	08-50-0093	2478-IC-(102)I						
08-50-0146	2478-1-(109)	08-52-0811	2478-3-(102)			08-52-0047	2478-3C-(P102)I				
08-50-0147	2478-1-(109)I	08-52-0912	2478-3-(102)I			08-52-0046	2478-3C-(P102)				
08-50-0119	2478-1-(122)	08-50-0281	2478-3-(122)								
08-50-0120	2478-1-(122)I	2478-3-(122)I									
08-50-0271	2478-1-(P909)A	08-58-0121	2478-3-(550)								
	2478-1-(550)A	08-58-0122	2478-3-(550)I								
08-56-0153	2478-1-(507)	08-58-0103	2478-3-(59)I								
08-56-0154	2478-1-(507)I	08-58-0104	2478-3-(59)III								
	2478-1-(506)	08-58-0114	2478-3-(558)								
	2478-1-(506)I	08-58-0115	2478-3-(558)I								
08-50-0015	2478-1-(102)										
08-50-0016	2478-1-(102)I										
08-52-0114	2478-1-(P909)										
08-52-0115	2478-1-(P909)I										
	2478-1-(132)										
	2478-1-(132)I										
08-50-0001	2478-1-(P224)										
08-50-0006	2478-1-(P224)I										
08-50-0063	2478-1-(224)										
08-50-0064	2478-1-(224)I										
08-55-0133	2478-1-(56)I										
08-55-0134	2478-1-(56)III										
08-50-0073	2478-1-(P102)										
08-50-0074	2478-1-(P102)I										

SEE SHEET I	SEE SHEET I	SEE SHEET I	SEE SHEET I
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LTR.	REVISIONS	LTR.	REVISIONS

0 0 0 REVISION ONLY ON CAD SYSTEM  
 CRIMP TERMINAL  
 #56 #  
 8/24 AWG WIRE  
 MOLEX INCORPORATED  
 SERIAL: 0888  
 DATE: 10/12/86  
 SEE CHARTS SD-2478  
 100% INSPECTION REQUIRED FOR ALL PARTS AND FINISHES  
 100%

# 3.96mm (.156") Pitch Double-Sided Edge KK<sup>®</sup> 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

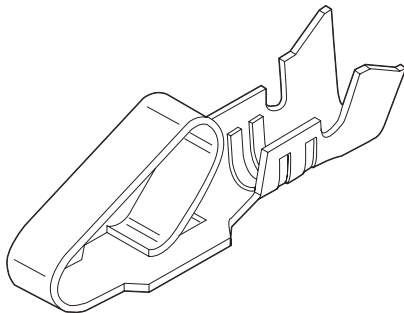
Contact Retention to Housing: 8 lb min.  
Wire Pull-Out Force: 20 lb for 18 AWG  
(less for smaller wire)

### 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					
<a href="#">08-03-0303</a>	<a href="#">08-03-0304</a>	18-20	2.79 (.110)	4366	Tin	Yes
<a href="#">08-05-0301</a>	<a href="#">08-05-0302</a>			4366	Gold	

# L 3.96mm (.156") Pitch KK<sup>®</sup> 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					
<a href="#">08-52-0071</a>	<a href="#">08-52-0072</a>	<a href="#">08-58-0121</a>	<a href="#">08-58-0122</a>	<a href="#">08-65-0114</a>	<a href="#">08-65-0115</a>	18-20	2.79 (.110)	max. 2478	Phosphor Bronze	Yes
<a href="#">08-50-0105</a>	<a href="#">08-50-0106</a>	<a href="#">08-56-0105</a>	<a href="#">08-56-0106</a>	<a href="#">08-55-0103</a>	<a href="#">08-55-0104</a>	18-20	2.79 (.110)	max. 2478	Brass	
<a href="#">08-50-0133</a>	<a href="#">08-50-0134</a>	<a href="#">08-58-0125</a>	<a href="#">08-58-0126</a>	<a href="#">08-65-0116</a>	<a href="#">08-65-0117</a>	22-26	1.65 (.065)	max. 2578	Phosphor Bronze	
<a href="#">08-50-0107</a>	<a href="#">08-50-0108</a>	<a href="#">08-56-0107</a>	<a href="#">08-56-0108</a>	<a href="#">08-55-0105</a>	<a href="#">08-55-0106</a>	22-26	1.65 (.065)	max. 2578	Brass	

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

