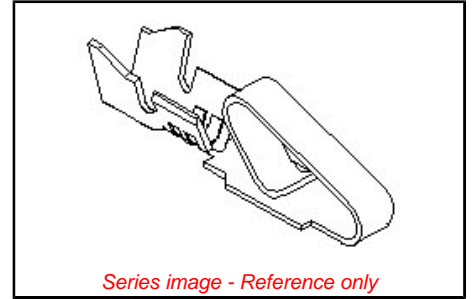


Part Number: [0008520072](#)
Status: **Active**
Overview: [KK®](#)
Description: 3.96mm (.156) Pitch KK® Crimp Terminal 2478, 18-24 AWG, Bag, Phosphor Bronze, Tin (Sn)



General

Product Family	Crimp Terminals
Series	2478
Overview	KK®
Product Name	KK®

Physical

Gender	Female
Material - Metal	Phosphor Bronze
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 mm²	N/A

Material Info

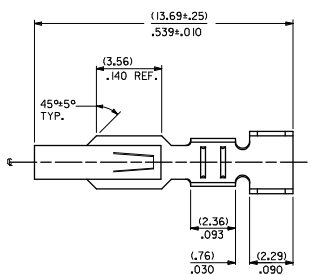
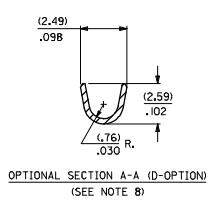
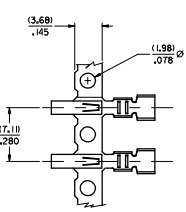
Old Part Number	2478-3-(P909)L
-----------------	----------------

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- * - * - *

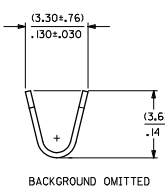
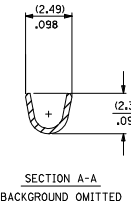
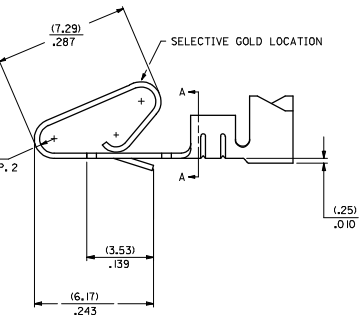
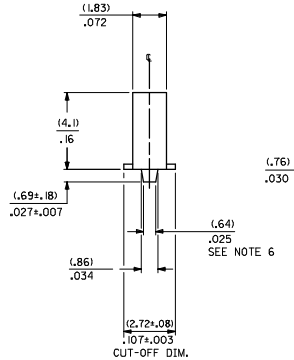
MATERIAL CODE
L=27/.0106 THK
I=BRASS
3=PHOS BRONZE

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

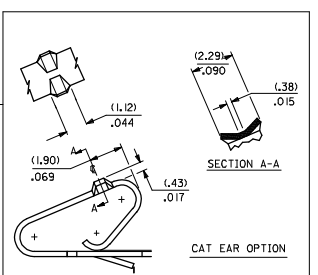
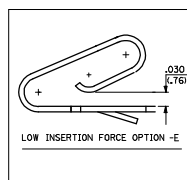
WINDING SPEC.
A=PER ES-339-A
BLANK=PER ES-339-B
L=LOOSE

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 MEIO EIC NO. IEP-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	
	4 PLACES ±--- INCH 3 PLACES ±--- INCH 2 PLACES ±.25 ±.014 1 PLACE ±0.36 ±---	DIM IN/MM ±--- ±.010 ±.014 ±---	DRAWN BY: DATE SAMIEC 06/03/86 CHECKED BY: DATE PATEL 06/03/86 APPROVED BY: DATE LENZ 06/03/86	IN/MM		INCH	CRIMP TERMINAL .156 CENTERS 18 TO 24 GA WIRE
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE CHART DOCUMENT NO. SD-2478	MOLEX INCORPORATED				SHEET NO. 1 OF 2
	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)				
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				
08-56-0105	2478-1-(550)		08-55-0114	2478-3-(555)		08-50-0047	2478-IC-(P102)		08-52-0023	2478-3C-(102)							
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							
08-55-0103	2478-1-(555)		08-52-0073	2478-3-(P102)		08-50-0091	2478-IC-(102)		08-52-0027	2478-3C-(122)							
08-55-0104	2478-1-(555)I		08-52-0074	2478-3-(P102)I		08-50-0093	2478-IC-(102)I		08-52-0047	2478-3C-(122)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)													
08-56-0153	2478-1-(507)		08-58-0122	2478-3-(550)I													
08-56-0154	2478-1-(507)I		08-58-0103	2478-3-(591)													
	2478-1-(506)		08-58-0104	2478-3-(591)I													
	2478-1-(506)I		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-(561)																
08-55-0134	2478-1-(561)I																
08-50-0073	2478-1-(P102)																
08-50-0074	2478-1-(P102)I																

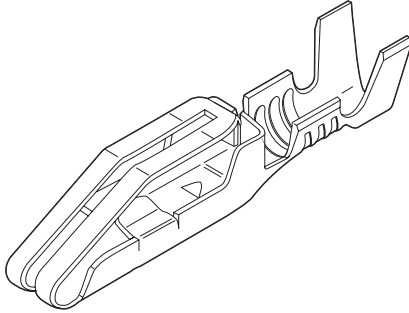
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1	<input type="checkbox"/> 0 1 <input type="checkbox"/> 0	REVISE ONLY ON CAD SYSTEM
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		
SEE SHEET 1	SEE SHEET 1	SEE SHEET 1		

REVISIONS	DATE	BY	CHKD

SD-2478
 CRIMP TERMINAL
 #56 &
 8/24 AWG WIRE
 MOLEX INCORPORATED
 106/12/86
 SEE CHARTS
 SD-2478

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)

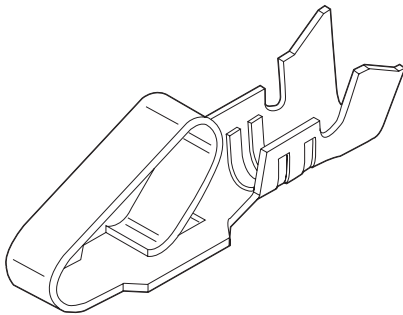
Physical

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	

L 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: 20µm min. Gold in contact area with a flash overall
Plating No. 2: 15µm min. Gold in contact area only