

CABLE DRAWING: CAB-0XXX (SALEM CODE)

DRAWING TITLE:  
**Power Supply Front Panel LED Cable**

DRAWING NO.: MWACAB-0027	DRAWN BY: DRC	DATE: 18-Dec-09	REV: A
		SHEET: 1 of 2	

**Cable Detail:**

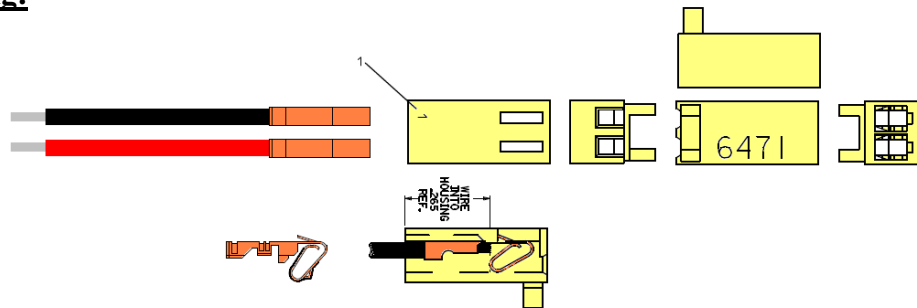
Connectors:	Description	Parts (Qty)
PSU-LED-S	MOLEX - 22-01-2025 - Crimp Housing, 0.1", 2Way	See Note1 Below(1)
PSU-LED-P	MOLEX - 08-50-0032 - Crimp Pin, 22-30AWG	See Note2 Below(2)
Conductors:		
	PTFE-26AWG-BLACK, 7/0.15 strands, 4A	See Note3 Below(?)
	PTFE-26AWG-RED, 7/0.15 strands, 4A	See Note4 Below(?)

Overall Length ??+/-5mm

**Notes:**

- The Housing can be supplied from Farnell #143-126. Any equivalent will be OK refer to data sheets supplied with this drawing.
- The Housing Pins can be supplied from Farnell #977-3789. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.
- The black wire can be supplied from Farnell #118-4006 or PSI # PC-0071. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.
- The red wire can be supplied from Farnell #118-4010 or PSI # PC-0073. Any equivalent will be OK, but must match the housing refer to data sheets supplied with this drawing.

**Typical Drawing:**



**Connection Table:**

PSU-DCS	Description	DC Switch
Pins(3)		Pins(3)
1	Cathode	1
2	Anode	2

**Connection Detail:**

From: (PSU-LED) Attached to the PSU LED connector  
To: (LED) Attach to the DC LED Pins

**REVISION**

Date	Rev	Remarks
18/12/09	A	Draft

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DRAWING NO.: <b>MWACAB-0027</b>	DRAWN BY: <b>DRC</b>	DATE: 18-Dec-09	REV: <b>A</b>
		SHEET: 2 of 2	

**Assembly Details:**

**CRIMPING & STRIPPING**

**Wire Preparation**

The wire must be stripped to the dimension provided in Figure 2.

Do not nick, scrape, or cut the wire conductor during the stripping operation.

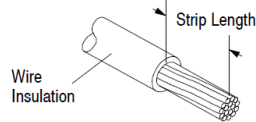


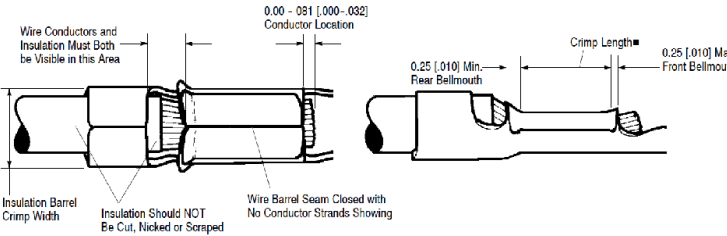
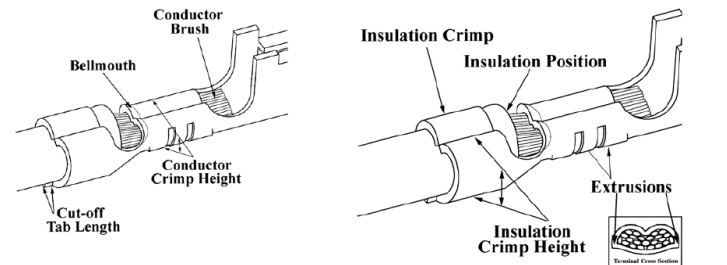
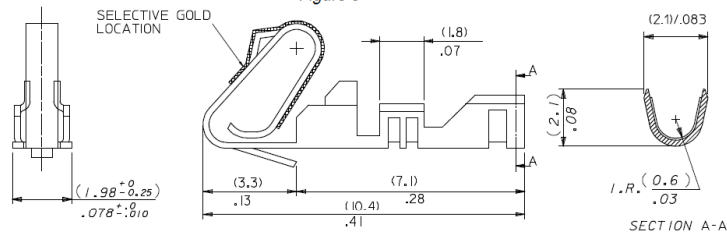
Figure 2

WIRE SIZE RANGE, (AWG)	INSUL DIA MAX.	STRIP LENGTH	WIRE BARREL		INSUL BARREL CRIMP WIDTH
			CRIMP HEIGHT	CRIMP WIDTH	
22	1.55	4.37-2.77	0.97-0.81	1.07	1.57
24	1.55	4.37-2.77	0.86-0.71		
26	1.55	4.37-2.77	0.81-0.71		
26-30	1.22	4.37-2.77	0.74-0.64	1.4	

**Crimp Length**

For optimum crimp effectiveness, the crimp must be within the area shown and must meet the crimp dimensions provided in Figure 3. Effective crimp length shall be defined as that portion of the wire barrel, excluding bellmouth(s), fully formed by the crimping tool.

Figure 3



■ Effective crimp length shall be 2.67 mm minimum for 20-24 AWG wire, and 2.16 mm minimum for all other wire sizes; and is defined as that portion of the wire barrel fully formed by the tool, excluding the bellmouths.

**REVISION**

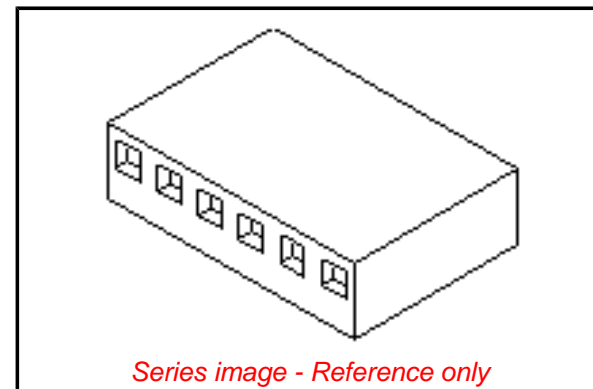
Date	Rev	Remarks
18/12/09	A	Draft

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0022012025](#)  
**Status:** **Active**  
**Overview:** [KK®](#)  
**Description:** 2.54mm (.100") Pitch KK® Crimp Terminal Housing, Friction Ramp, 2 Circuits, Use with 4809

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-99020-0088 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Product Specification PS-10-07 (PDF)</a>	



**General**

Product Family	Crimp Housings
Series	<a href="#">6471</a>
Overview	<a href="#">KK®</a>
Product Name	KK®

**Physical**

Circuits (maximum)	2
Color - Resin	Natural (White)
Flammability	94V-0
Gender	Female
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Resin	Nylon
Number of Rows	1
Packaging Type	Bag
Panel Mount	No
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Polarized to Mating Part	Yes
Stackable	No
Temperature Range - Operating	0°C to +75°C

**Electrical**

CSA	LR19880
UL	E29179

**Material Info**

Old Part Number	6471-021
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**Reference - Drawing Numbers**

Product Specification	PS-10-07
Product Specification	PS-99020-0088
Sales Drawing	SD-6471-N*-**
Sales Drawing	SDE-6471-N*-*
Sales Drawing	SDE-6471-N*D-A

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Halogen-Free Status**

**China RoHS**



**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
Please visit the [Contact Us](#) section for any non-product compliance questions.

**Search Parts in this Series**

[6471 Series](#)

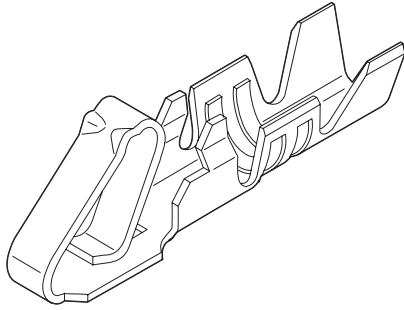
**Mates With**

2.54mm (.100") Pitch KK® Crimp Terminal Housing, Friction Ramp, 2 Circuits, Use with 4809

**Use With**

KK® Crimp Terminal Housing [2695](#) , [6471](#) , [7880](#)

# 2.54mm (.100") Pitch KK<sup>®</sup> Crimp Terminal 4809 Anti-Fishhooking



### Features and Benefits

- Avoids tangling at pre-assembly
- Available with cat ears

### Reference Information

Product Specification: PS-10-07  
Packaging: Reel or bag  
Tooling Information: See crimp tooling section  
UL File No.: E29179  
CSA File No.: LR19980  
Mates With: 5051-NM and 6471 housings  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 2.5A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage: 1500V  
Insulation Resistance: 500K Megohms min.

### Mechanical

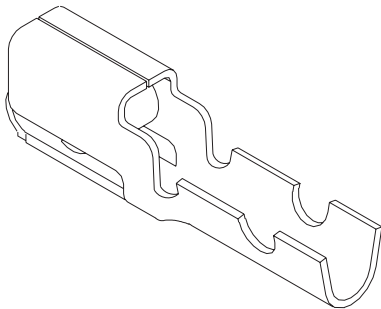
Contact Insertion Force: 681g max.  
Contact Retention to Housing: 27.21g min.  
Wire Pull-Out Force: 3 lb min.  
Mating Force: 199g max.  
Unmating Force: 57g min.  
Normal Force: 300g  
Durability: 50 cycles Gold and 25 cycles Tin

### Physical

Contact: Brass  
Plating: Gold, select Gold and Tin  
Operating Temperature: Storage— -40 to +105°C  
Operating— 0 to +75°C  
Wire Accommodation: 22 to 30 AWG

Order No.		Plating	Crimp Wire Size	Insulation Diameter	Engineering No.	Lead-free
Bag	Reel					
<a href="#">08-50-0032</a>	<a href="#">08-50-0031</a>	1.00 to 2.50µm Tin	22-30	1.57 (.062) max.	4809	Yes
<a href="#">08-55-0111</a>	<a href="#">08-55-0110</a>	0.38µm Gold in contact area only				
<a href="#">08-56-0115</a>	<a href="#">08-56-0120</a>	0.38µm Gold in contact area, Gold flash overall				

# 2.54mm (.100") Pitch KK<sup>®</sup> Crimp Terminal 7879 High Pressure



### Features and Benefits

- Multiple contacting points
- Patented triple cantilever with box shroud
- Suitable for high vibration requirements
- Box shroud prevents contamination to the contact surface
- Crimping die or hand tool available

### Reference Information

Product Specification: PS-7879  
Packaging: Reel or bag  
Tooling Information: See crimp tooling section  
UL File No.: E29179  
CSA File No.: LR19980  
Use With: 7880 housings  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 2.5A  
Contact Resistance: 10 milliohms max.  
Dielectric Withstanding Voltage: 1500V  
Insulation Resistance: 50K Megohms min.

### Mechanical

Wire Pull-Out Force:

Wire Gauge (AWG)	22	24	26	28	30
Pull-Out Force (lb)	10	8	6	4	3

Mating Force: 475g max.  
Unmating Force: 100g min.  
Normal Force: 430g min.

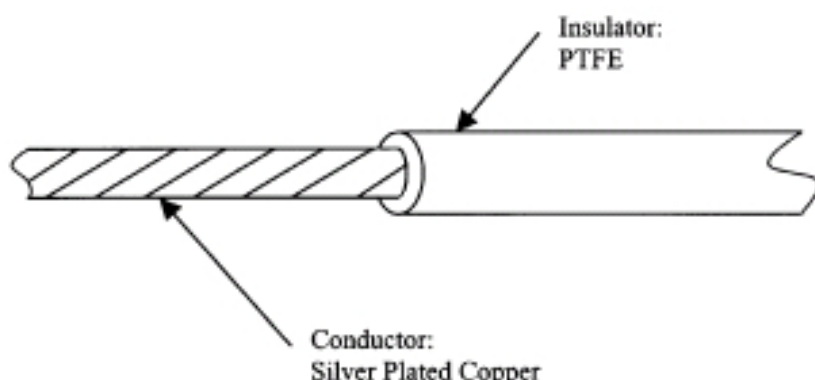
### Physical

Contact: Brass  
Plating: See Table  
Wire Accommodation: 22 to 30 AWG  
Insulation Range: 1.58mm (.062") diameter max.

Order No.		Plating	Wire Gauge (AWG)	Insulation Diameter	Lead-free
Reel	Bag				
<a href="#">08-50-0004</a>	<a href="#">08-50-0005</a>	Tin/Copper	22-30	1.57 (.062) max.	Yes
<a href="#">08-55-0124</a>	<a href="#">08-55-0129</a>	Select Gold			

Recommended wire range assumes stranded wire

## PTFE Insulated Equipment Wire to BS 3G 210



### Unscreened Type A

The sizes available are as follows:

Size	No. of Strands	Nominal diameter of strands mm	Nom. diameter of conductor mm	Nom. Insulation R.T. mm	Overall diameter mm		Max Resistance at 20°C /km	Max Wt. Kg/km
					Min.	Max		
30	1	0.250	0.250	0.15	0.45	0.60	377.0	0.96
28	1	0.320	0.320	0.15	0.52	0.67	229.0	1.32
26	1	0.400	0.400	0.15	0.60	0.75	146.0	1.83
32	7	0.080	0.240	0.15	0.44	0.59	558.0	0.84
30	7	0.100	0.300	0.15	0.50	0.65	353.0	1.10
28	7	0.120	0.360	0.15	0.56	0.71	244.0	1.40
26	7	0.150	0.450	0.15	0.65	0.80	159.0	1.96
24	7	0.200	0.600	0.15	0.80	0.95	88.30	3.04
26	19	0.100	0.500	0.15	0.70	0.85	130.0	2.26
24	19	0.120	0.600	0.15	0.80	0.95	89.8	2.99
22	19	0.150	0.750	0.15	0.95	1.10	58.6	4.41
20	19	0.200	1.000	0.15	1.20	1.35	32.5	7.19

### Cable Characteristics

Temperature rating : 190°C

Voltage rating : 300 Volts.

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**Drawing No : Leigh-0046**

**Issue No : 1**

**Date : 11/02/00**

**Issued By : H PARRY**