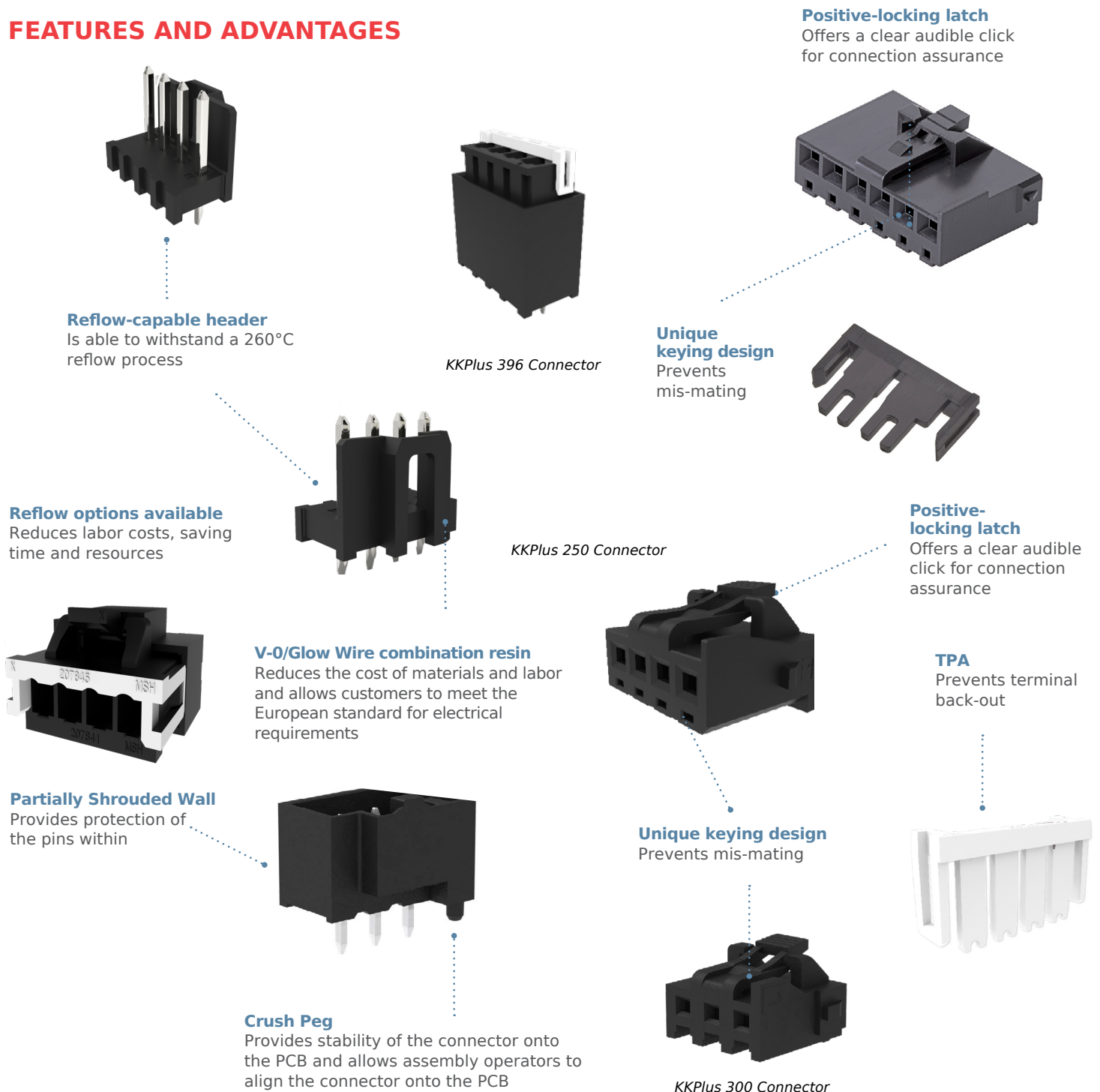


# KKPlus Connector System Product Family

The KKPlus Connector System is a wire-to-board system that delivers up to 11.0A of current through 3 pitch sizes (2.50mm, 3.00mm and 3.96mm) and offers superior design options for flexibility and efficient assembly.

## FEATURES AND ADVANTAGES



**KKPlus 250 Connectors can provide a direct drop-in replacement on a PCB for JST – XA products.**

**KKPlus 396 Connectors can provide a direct drop-in replacement on a PCB for JST – VH products.**

For new low-power, wire-to-board applications, KKPlus connectors are reliable alternatives to other manufacturers' products.

KKPlus 250 Connectors are designed to have a PCB layout compatible with JST's XA series, and KKPlus 396 Connectors are designed to have a PCB layout compatible with JST's VH series; however, KKPlus receptacles will not mate with JST's or any other manufacturers' products.

# KKPlus Connector System Product Family >

## MARKETS AND APPLICATIONS

### Consumer –

#### General Market

Washers and dryers  
Freezers  
Gaming machines  
Printers  
Refrigerators  
Scanners  
Security systems  
Vending machines  
White goods

### Telecommunications/ Networking

Routers and switches  
Servers  
Storage

### Medical

Diagnostic equipment  
Patient monitors

### Automotive

Harness manufacturers  
Non-sealed applications  
Inside devices  
Charging stations

### Industrial

Food and beverage  
Assembly line equipment



Appliances



Routers

## SPECIFICATIONS

### KKPLUS 250 (2.50MM)

#### REFERENCE INFORMATION

Packaging: Bag, Reel  
UL File No.: E29179  
CSA File No.: 70216533  
Mates With: KKPlus 250 components only  
Header series: 207843  
Receptacle series: 207841  
TPA Series: 207845  
Crimp Terminal: 46626  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free:  
Compliant (Low-Halogen): 207843  
Not Compliant: 207841, 207845  
Glow Wire Capable: Yes

#### ELECTRICAL

Voltage (max.): 250V AC (RMS) or DC  
Current (max.): 6.5A  
Contact Resistance (max.): 10 Milliohms Dielectric  
Dielectric Withstanding Voltage: 1000VAC  
Insulation Resistance (min.): 1000 Megohms

#### MECHANICAL

Pitch: 2.50mm  
Contact Insertion Force (max.): 15N  
Contact Retention to Housing (min.): 12N  
Header Pin Retention Force (min.): 7.5N  
Mating Force: 6N per circuit  
Un-mating Force: 0.5N per circuit  
Durability (max.): 25

#### PHYSICAL

Header Housing: LCP UL 94V-0, Black  
Header Contact: Brass Alloy  
Contact Plating: Tin Over Nickel Overall  
Receptacle Housing: PA66 UL 94V-0, Black  
TPA: PA66 UL 94V-0, Natural  
Terminal: Copper Alloy  
Plating: Tin  
PCB Thickness: 1.60mm  
Operating Temperature: -40 to +105°C

### KKPLUS 300 (3.00MM)

#### REFERENCE INFORMATION

Packaging: Tray, Reel  
UL File No.: E29179  
CSA File No.: 80033030  
Header: 209208  
Receptacle: 209209  
TPA: 209325  
Crimp Terminal: 206396  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free:  
Compliant (Low-Halogen): 209208  
Not Compliant: 209209, 209325  
Glow Wire Capable: Yes

#### ELECTRICAL

Voltage (max.): 250V AC (RMS) or DC  
Current (max.): 11.0A  
Contact Resistance: 10 milliohms  
Dielectric Withstanding Voltage: 1000VAC  
Insulation Resistance: 1000 Megohms

#### MECHANICAL

Pitch: 3.00mm  
Contact Insertion Force (max.): 15N  
Contact Retention to Housing (min.): 12N  
Header Pin Retention Force (min.): 7.5N  
Mating Force per circuit: 6N  
Un-mating Force per circuit: 0.5N  
Durability (min.): 25

#### PHYSICAL

Header Housing: LCP UL 94V-0, Black  
Header Contact: Brass Alloy  
Contact Plating: Tin Over Nickel Overall  
Receptacle Housing: PA66 UL 94V-0, Black  
TPA: PA66 UL 94V-0, Black  
Terminal: Copper Alloy  
Plating: Tin  
PCB Thickness: 1.57mm  
Operating Temperature: -40 to +105°C

### KKPLUS 396 (3.96MM)

#### REFERENCE INFORMATION

Packaging: Bag, Tray, Reel  
UL File No.: E29179  
CSA File No.: 80036057  
Header : 207478, 207479  
Receptacle: 207458  
TPA : 207459  
Crimp Terminal : 45570  
Designed In: Millimeters  
RoHS: Yes  
Halogen Free:  
Compliant (Low-Halogen): 207478, 207479  
Not Compliant: 207458, 207459  
Glow Wire Capable: Yes

#### ELECTRICAL

Voltage (max.): 350V AC / DC  
Current (max.): 11.0A  
Contact Resistance (max.): 10 milliohms Dielectric  
Withstanding Voltage: 1700VAC  
Insulation Resistance (min.): 1000 Megohms

#### MECHANICAL

Pitch: 3.96mm  
Contact Insertion Force (max.): 14.7N  
Contact Retention to Housing (min.): 35.6N  
Header Pin Retention Force (min.): 7.5N  
Mating Force: 10.7N per circuit  
Un-mating Force: 3.4N per circuit  
Durability (max.): 25

#### PHYSICAL

Header Housing: LCP UL 94V-0, Black  
Header Contact: Brass Alloy  
Contact Plating: Tin Over Nickel Overall  
Receptacle Housing: PA66 UL 94V-0, Black  
TPA: PA66 UL 94V-0, Natural  
Terminal: Copper Alloy  
Plating: Tin  
PCB Thickness: 1.60mm  
Operating Temperature: -40 to +105°C

[www.molex.com/link/KKPlus.html](http://www.molex.com/link/KKPlus.html)