

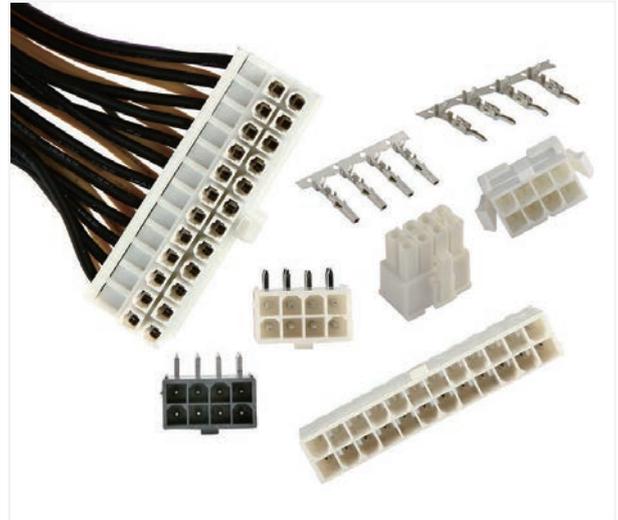
# Minitek Pwr™ 4.2

## OVERVIEW

Minitek Pwr™ 4.2 connectors are designed for high-current, high-density application. It is ideal for power application with current rating up to 9A per circuit, available for dual row and 2 to 24 circuits, for Wire-to-Board, Wire-to-Wire, and Wire-to-Panel mount application.

Crimp, snap-in plug and receptacle contacts are used to terminate AWG 16–28 wires. Plug and receptacle housings allow Wire-to-Wire and Wire to-Board configurations.

Crimping and removal tools are available for wire harness assembly. Header assemblies for Wire-to-Board in interconnections include vertical and right angle components. These wave soldering headers are available in through-hole configurations. A right angle version cable receptacle is also available.



## FEATURES

- Fully isolated terminals
- Positive locking on HSG with low thumb latch operation
- Polarized mating geometry
- Scoop-proof housings
- Fully polarized housings
- High retention force in HSG
- Low insertion force for installation of crimped terminal
- Wire-to-Wire, Wire-to-Board and Wire-to-Panel connectors with 4.2mm centerline
- Available in UL94V-0 flammability rated nylon
- Vertical and right-angle PCB headers for wave soldering application
- Interchangeable and compatible with Molex Mini-Fit JR™
- RoHS compliance and Lead-Free
- Special right-angle type receptacle

## BENEFITS

- Prevents terminals from potential damage during operation
- Prevents from unexpectedly unmating
- Ensures header and receptacle are correctly mated
- Ensures terminals and header pins are not damaged for angled mating
- Prevents accidental mis-mating
- Well secures terminals in housings
- Insertion tool is not required
- Flexible applications in various situations
- High flammability rating
- Supports various 1.6mm PCB applications
- Intermateable with Molex parts
- Meet environmental, health and safety requirements
- Ideal for cable routing within 1U or 2U equipment systems

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## TECHNICAL INFORMATION

### MATERIALS

- Contact for Board Header Connector: Brass with optional Tin and Gold Flash plating
- Housing: Nylon 66, Natural color, UL94V-0
- Terminal for Crimping: Brass/ Phosphorus Bronze with optional Tin and Gold Flash plating

### ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 10mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 600V rms
- Current Rating: Up to 9A/contact
- Dielectric Withstand Voltage: 1500 VAC
- Temperature Rise: 30°C max.

### ENVIRONMENTAL

- Operating Temperature: -40°C to +105°C
- Includes 30°C terminal temperature rise at rated current

### MECHANICAL PERFORMANCE

- Terminal Insertion Force: 14.7N max.
- Terminal Withdrawal Force: 1N min.
- Durability: 30 cycles
- Wire Pullout Force: Refer to product specifications

### SPECIFICATIONS

- Product Spec: GS-12-1181
- Package Spec: GS-14-2362
- Application Spec: GS-20-0401

### TOOL INFORMATION

- Ratched hand crimping tool: 100129483-001LF
- Terminal extract tool: 10129274-042LF

### PART NUMBERS

Description	Part Number
PCB Header Right-Angle w/o pegs	10127819
PCB Header Vertical w/o pegs	10127820
R/A Receptacle Housing	10122957
Receptacle Housing	10127815
Panel Mount Plug Housing	10127816
Female Terminal	10127817
Male Terminal	10127818

### APPROVALS AND CERTIFICATIONS

- UL E66906 & E467317

### PACKAGING

- PCB Header: Tray
- Crimping Housing: Bag
- Terminal: Reel

### TARGET MARKET/ APPLICATIONS

- Consumer
  - Set Top Box
  - WiMax Box
  - Display System
- Industrial & Instrumentation
  - Multi-service Station
  - Display System
  - Electrical Lighting
  - Hospital Bed
  - Chemical Detection System
- Data
  - Fan
  - Rack-Mount/ Blade Server
  - Interface Converter
  - HDD Application
- Communications
  - WiMax Box
  - Generic Telecom Box
  - Customer Premises Equipment

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