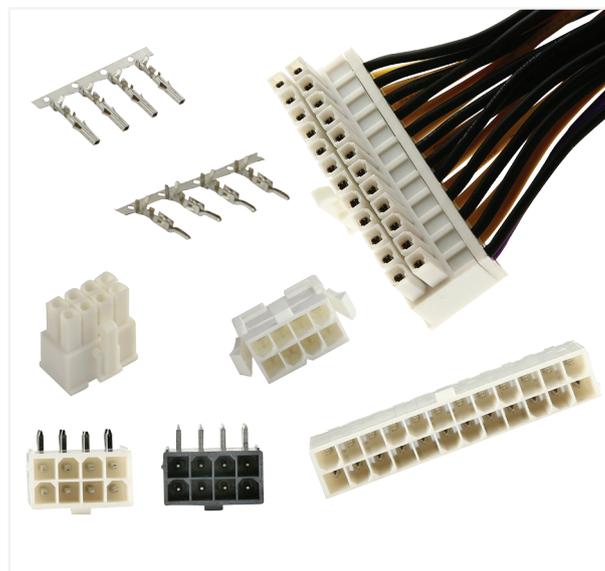# Minitek Pwr™ 4.2

OVERVIEW

Minitek Pwr™ 4.2 connectors are designed 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 header and receptacle contacts are used to terminate 28AWG–16AWG wires. Header 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 Micro–Fit™

- RoHS compliance and Lead–Free

- Special right–angle type receptacle

- Glow Wire Compliant series available

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

- Supports home appliances requirements

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Minitek Pwr™ 4.2

TECHNICAL INFORMATION

MATERIALS

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

ELECTRICAL PERFORMANCES

- 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
- Include 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: GS-12-1181
- Package: GS-14-2362
- Application: GS-20-0401

TOOL INFORMATION

- Ratched hand crimping tool: 10129483-001LF
- Terminal extract tool: 10129274-042LF

APPROVALS AND CERTIFICATIONS

- UL E66906 & E467317

PACKAGING

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

TARGET MARKETS/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

PART NUMBERS

Description	Part Number
Right angle PCB Header	10127819
Vertical PCB Header	10127820
Right angle Receptacle Housing with cover	10122956
Receptacle Housing	10127815
Panel Mount Header Housing	10127816
Receptacle Terminal	10127817
Header Terminal	10127818

BWBMPWR421214EA4

Disclaimer

Please note that the above information is subject to change without notice.