

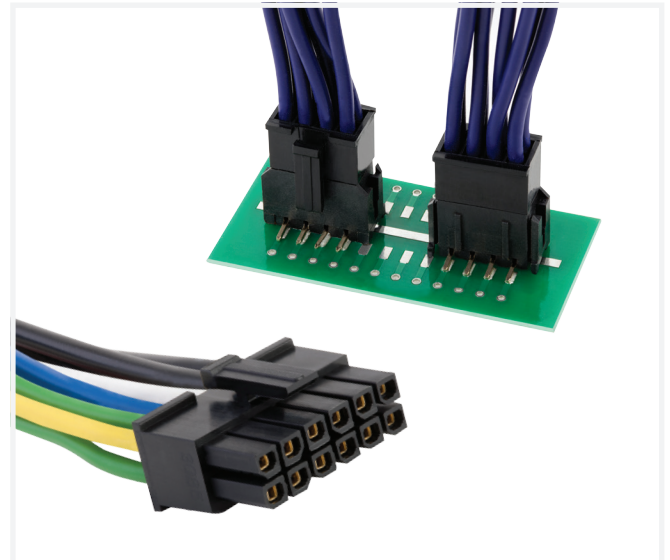
MINITEK® PWR 3.0 HIGH CURRENT CONNECTOR SYSTEM

Dual Row

ROBUST, VERSATILE AND HIGH CURRENT PERFORMANCE

Minitek® Pwr 3.0 High Current Connector (HCC) is designed for power applications with current rating up to 12A per contact and wire gauge range from 20 to 16AWG for Wire-to-Wire and Wire-to-Board applications. It is available in 2 to 24 circuits for dual row.

- Rated current up to 12A per contact
- Fully isolated terminals
- High retention force in housing
- Fully polarized housing



TARGET MARKETS



FEATURES

- High current alloy material used for contacts
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- High retention force in housing
- Interchangeable hand crimping and terminal extraction tools
- Glow wire compliant option
- UL94V-0 flammability rated nylon material
- RoHS compliant and lead-free

BENEFITS

- Rated up to 12A per contact
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismating
- Well secured terminals in housing
- New crimping tools are not required
- Complies with International Standard IEC 60335-1 for household appliances
- High flammability rating
- Meets environmental, health and safety requirements

▶ MINITEK® PWR 3.0 HIGH CURRENT CONNECTOR SYSTEM

TECHNICAL INFORMATION

MATERIAL

- Board Connector: High Current Alloy with optional Tin and Gold Flash plating
- Housing: High Temperature Thermoplastic, Black, UL94V-0
- Crimping Terminal: High Current Alloy with optional Tin and Gold Flash plating

MECHANICAL PERFORMANCE

- Terminal Insertion Force: 5N max.
- Terminal Withdrawal Force: 2N min.
- Durability: 100 mating cycles
- Wire Pullout Force: Refer to product specifications

APPROVALS AND CERTIFICATIONS

- Glow Wire Ignition Temperature (GWIT) per IEC 60695-2-13
- Glow Wire Flammability Index (GWFI) per IEC 60695-2-12

PACKAGING

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

TOOLING INFORMATION

- Ratchet Hand Crimping Tool: 10129483-001LF
- Terminal Extraction Tool: 10129274-030LF

ENVIRONMENTAL

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

ELECTRICAL PERFORMANCE

- Low Level Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 250Vrms
- Current Rating: Up to 12A/contact
- Dielectric Withstanding Voltage: 1500VAC
- Temperature Rise: 30°C max.

SPECIFICATIONS

- Product Specification: GS-12-1291
- Application Specification: GS-20-0399
- Packaging Specification: GS-14-2419

TARGET MARKETS/APPLICATIONS



1U Rack Box
Generic Telecom Box
WiMax Box
Interface Converter
Customer Premises Equipment



Air Conditioner
Microwave Oven
Set Top Box
Refrigerator



HDD Application
Rack-Mount Server
Blade Server
Server-Orthogonal Configuration
Desktop PC and Motherboard



Hospital Bed
Defibrillator
Patient Monitor
Ultrasound Equipment



Chemical Detection System
Radar Equipment

PART NUMBERS

Description	Part Numbers
Right angle PCB header	10132449
Vertical PCB header	10132450
Receptacle housing	10132445
Header housing	10132446
Receptacle terminal	10132447
Header terminal	10132448

Disclaimer