**Minitek® Pwr 3.0 Connector System**

**Dual Row & Single Row**

**COMPACT, ROBUST AND VERSATILE**

Minitek® Pwr 3.0 is a flexible and comprehensive solution designed for power application with current rating up to 5A per circuit. It is available in 2 to 24 circuits for dual row and 2 to 12 circuits for single row.

- Solutions for Wire-to-Board and Wire-to-Wire applications
- Low insertion force for installation of crimped terminal makes it easy to use
- Polarized mating geometry prevents mismatching
- Fully isolated terminals prevents terminals from damage
- Blind mating interface (BMI) option in vertical, through hole type for dual row. 8, 12 and 14 positions available

**TARGET MARKETS**

- Solutions for Wire-to-Board and Wire-to-Wire applications
- Low insertion force for installation of crimped terminal makes it easy to use
- Fully isolated terminals prevents terminals from damage
- Blind mating interface (BMI) option in vertical, through hole type for dual row. 8, 12 and 14 positions available

**FEATURES**

- Low insertion force for installation of crimped terminal
- Fully isolated terminals
- Positive locking on housing with low thumb latch operation
- Fully polarized housings
- Scoop-proof housings
- High retention force in housing
- Glow wire compliant option
- BMI option
- UL94V−0 flammability rated LCP material
- RoHS compliant and lead-free

**BENEFITS**

- Easy to use
- Prevents terminals from potential damage during operation
- Ensures secured mating retention
- Prevents accidental mismating
- Ensures terminals and header pins are not damaged for angled mating
- Well secured terminals in housing
- Complies with International Standard IEC 60335−1 for household appliances
- Allows ± 2.54mm gatherability for blind mating
- High flammability rating
- Meets environmental, health and safety requirements
TECHNICAL INFORMATION

MATERIAL
- Board Connector: Brass with optional Tin and Gold Flash plating
- Housing: LCP & Nylon, Black, UL94 V-0
- Crimping Terminal: Phosphorus Bronze with optional Tin and Gold Flash plating

MECHANICAL PERFORMANCE
- Terminal Insertion Force: 4.5N max.
- Terminal Withdrawal Force: 2N min. before durability, 1.5N min. after durability
- Durability: 100 mating cycles
- Wire Pullout Force: Refer to product specifications

ELECTRICAL PERFORMANCE
- Low Level Contact Resistance: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating: 250Vrms
- Current Rating: 5A/contact. Refer to product specifications for higher current application
- Dielectric Withstand Voltage: 1000VAC
- Temperature Rise: 30°C max

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

APPROvals & CERTIFICATION
- Dual Row: UL E66906 & E467317
- Single Row: UL pending
- Glow Wire Ignition Temperature (GWIT) per IEC 60695–2-13
- Glow Wire Flammability Index (GWFI) per IEC 60695–2-12

SPECIFICATION
- Amphenol Application Specification: GS–20–0399
- Amphenol Packaging Specification: GS–14–2359

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

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

TARGET MARKETS/APPLICATIONS
- 1U Rack Box
- Customer Premises Equipment
- Generic Telecom Box
- Interface Converter
- WiMax Box
- Air Conditioner
- Microwave Oven
- Refrigerator
- Set Top Box
- Blade Server
- Desktop PC and Motherboard
- HDD Application
- Rack–Mount Server
- Server–Orthogonal Configuration
- Defibrillator
- Hospital Bed
- Patient Monitor
- Ultrasound Equipment
- Chemical Detection System
- Radar Equipment

www.amphenol-icc.com
Disclaimer
Please note that the above information is subject to change without notice.
## PART NUMBERS

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Part Numbers</th>
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<td><strong>Dual Row</strong></td>
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<td>Vertical PCB header, through hole</td>
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<td></td>
<td>Receptacle housing</td>
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<td>Header housing</td>
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<td>Right angle PCB header, SMT</td>
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<td>Vertical PCB header, through hole (BMI)</td>
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<td><strong>Single Row</strong></td>
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<td>Right angle PCB header, SMT tail &amp; hold down</td>
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<td>Vertical PCB Header, through hole</td>
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<td>Right angle PCB header, SMT tail &amp; DIP boardlock</td>
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<td>Receptacle housing</td>
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<td><strong>Applicable for both types</strong></td>
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