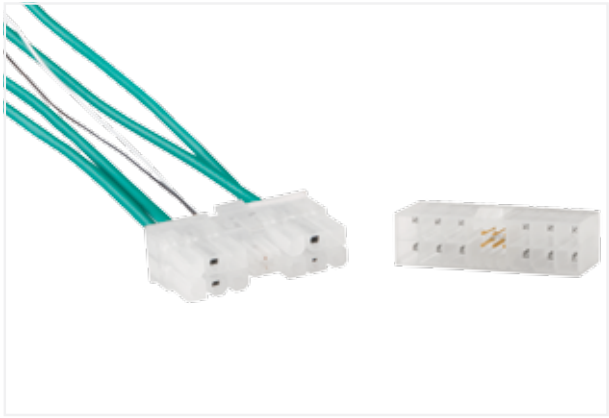
*** Please contact Gerhard.Strobl@codico.com to get more information! ***

Minitek Pwr™ Hybrid 4.2

OVERVIEW

Minitek Pwr™ Hybrid 4.2 connectors are designed for power and signal application with current rating up to 9A per circuit, available for dual row and 2 to 24 power circuits, and 2 to 12 signal for Wire-to-Board application.

Crimp, snap-in receptacle contacts are used to terminate AWG 16-30 wires. Receptacle housings allow Wire to-Board configurations. Crimping and removal tools are available for wire harness assembly. Board mounted vertical headers support Wire-to-Board interconnections. Wave soldering headers are available in through-hole configuration.



FEATURES

BENEFITS

FEATURES	BENEFITS
• Separated power and signal contacts	• Provide power contacts for power distribution and signal contacts for power control
• Flexible modular design	• Number and placement of power and signal contacts are highly configurable for customer power needs
• Flexible design with signal pin	• Backward mateable with traditional 4.2mm power connector if signal pin is absent
• Signal contact in 2mm pitch and power contact in 4.2mm pitch	• Compact size design and clear identification for cable harness termination
• Power pin is separated by signal pin in center position	• Better heat dissipation, hence better current rating capability
• Enlarged active latch with low thumb latch operation	• Prevents unexpected unmating and provides secure locking mechanism
• Signal pin with lower insertion and extraction force than power pin	• Relatively easy to mate and un-mate compared to the similarly configured traditional 4.2mm power connector
• High retention force for terminal within housing	• Well secures terminal in housings
• Available in UL94V-0 flammability rated LCP	• High flammability rating
• RoHS compliance and Lead free	• Meet environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIALS

- Power Contact for Board Header: Brass with Tin, optional Au and GXT™ plating
- Signal Contacts for Header and Receptacle: Phosphorus with optional Au and GXT™ plating
- Power Terminal for Crimping: Brass/Phosphorus with Tin, optional Au and GXT™ plating
- Housing: Nylon 66, UL94V-0

ELECTRICAL PERFORMANCES

- Low Lever Contact Resistance: 10mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating for Power Contacts: 600Vrms
- Current Rating for Power Contacts: Up to 9A/contact
- Current Rating for Signal Contacts: Up to 1A/contact
- Dielectric Withstand Voltage for Power: 1500 VAC
- Dielectric Withstand Voltage for Signal: 1000 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: 0.5N min.
- Durability: 30 cycles

SPECIFICATIONS

- Product Specification: GS-12-XXXX*
- Package Specification: GS-14-XXXX*
- Application Specification: GS-20-XXXX*

* Please contact product manager for more information

APPROVALS AND CERTIFICATIONS

- UL/CSA pending

TARGET MARKET/ APPLICATIONS

- Consumer
  - Household Appliances
- Industrial & Instrumentation
  - Multi-service Station
  - Display System
  - Chemical Detection System
- Data
  - Power Supply Unit
  - Fan
  - Rack-Mount
  - Interface Converter
  - HDD Application
- Communications
  - Generic Telecom Box
  - Customer Premises Equipment

PART NUMBERS

Description	Part Number
PCB Header Vertical, Through-Hole	10129817
Receptacle Housing	10129815
Receptacle Terminal for Power	10129084
Receptacle Terminal for Signal	72392

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