

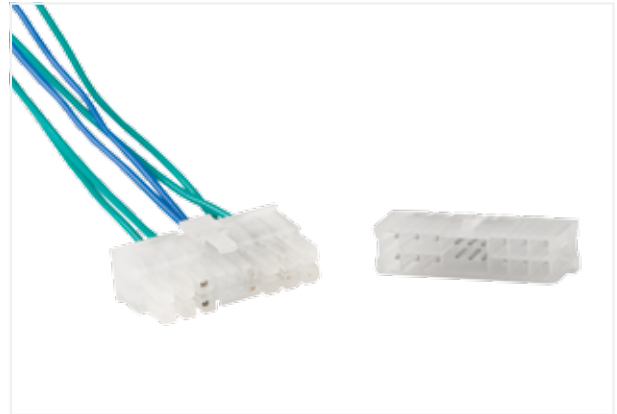
*** Please contact Gerhard.Strobl@codico.com to get more information! ***

Minitek Pwr™ Hybrid 3.0

OVERVIEW

Minitek Pwr™ Hybrid 3.0 connectors are designed for power and signal application with current rating up to 5A 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 20–30 wires. Receptacle housings allow Wire-to-Board configurations. Crimping and removal tools are available for wire harness assembly. Board mounted vertical header supports Wire-to-Board interconnections. Wave soldering headers are available in through-hole configuration.



FEATURES

- Separated power and signal contacts
- Flexible modular design
- Flexible design with signal pin
- Signal contact in 2mm pitch and power contact in 3mm pitch
- Power pin is separated by signal pin in center position
- Positive locking and housing with low thumb latch operation
- Signal pin with lower insertion and extraction force than power pin
- High retention force for terminal within housing
- Available in UL94V-0 flammability rated LCP
- RoHS compliance and Lead free

BENEFITS

- Provide power contacts for power distribution and signal contacts for power control
- Number and placement of power and signal contacts are highly configurable for customer power needs
- Backward mateable with traditional 3.0mm power connector if signal pin is absent
- Compact size design and clear identification for cable harness termination
- Better heat dissipation, hence better current rating capability
- Prevents unexpected unmating
- Relatively easy to mate and un-mate compared to the similarly configured traditional 3.0mm power connector
- Well secures terminal in housings
- High flammability rating
- 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: 20mΩ max.
- Insulation Resistance: 1000MΩ min.
- Voltage Rating for Power Contacts: 250Vrms
- Current Rating for Power Contacts: Up to 5A/contact
- Current Rating for Signal Contacts: Up to 1A/contact
- Dielectric Withstand Voltage for Power: 1000 VAC
- Dielectric Withstand Voltage for Signal: 650 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: 8.0N max.
- Terminal Withdrawal Force: 3.7N 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	10129811
Receptacle Housing	10129812
Receptacle Terminal for Power	10129814
Receptacle Terminal for Signal	10044403



BWBMPHYB30104EA4