PV®

Product Presentation

Basics Portfolio
Agenda

1. Value Proposition
2. Product Overview
3. Product Specifications
4. Features & Benefits
5. Markets & Applications
6. Marcomm Collaterals
PV

Value Proposition

PV® is the innovative, comprehensive and patented crimp-to-wire system connects discrete wire to printed circuit boards.

Thanks to the design the PV® system is the versatile and modular system able to meet all the BTB, BTW, WTW interconnection needs.

Designed for 2.54mm up to 7.62mm grid stacking, the PV® is especially suitable to satisfy high density and high performance needs.

The patented female contact is giving outstanding electrical and mechanical properties to satisfy all the needs.
BTB – WTB – CTB

Solution Overview

Board-to-Board

Wire-to-Board

Cable-to-Board
PV®

Solution Overview – PV® connectors 2.54mm centerline

- PV Contacts
  - Higher mating cycles
  - Higher Rating Amps
  - Auto cleaning
  - On reel or as loose pieces

- PV Housings (65039- 65043- 65846)
  - Single row/ double row
  - Polarization Key
  - Stackable End to End
  - Latching System allows for Terminal Removal

- Shrouded headers (2 walls)
  - Single row/ double row
  - Straight/ right angle
# Product Specifications

## Product Facts
- Unique dual-metal PV® receptacle contact
- A beryllium copper spring
- Brass contact body
- Choice of three different spring pressures
- Shrouded header side walls engage with the sides of the MINI-LATCH housing
- Keyed MINI-LATCH housings and header keyways
- Two wall header design

## Electrical Performances
- Current Rating Single Circuit: 3A
- Withstanding Voltage: 1000V RMS
- Insulation Resistance Wire Connector: >10,000 Megohms
- Insulation Resistance PCB Header: >5,000 Megohms
- Contact Resistance (LLCR) Wire Connector: <2 milliohms

## Mechanical Performances
- Mating Force (individual contact maximum)
  - High force spring: 450 grams
  - Ultra-high force spring: 1100 grams
- Un-mating Force (individual contact minimum)
  - High force spring: 450 grams
  - Ultra-high force spring: 1100 grams
- Contact Retention in MINI-LATCH Housing: 4lbs per contact
- Durability: 1000 cycles

## Technical Documents
- Product Specification:
  - BUS-12-067
  - BUS-12-075

## Approvals
- UL file: E66906
- CSA file: LR46923

## Packaging
- Tape and Reel

## Environmental
- Operating Temperature: -40°C to + 105°C
<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>Unique dual-metal PV® receptacle contact</td>
<td>Maintains contact pressure through 1000 mating cycles.</td>
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<tr>
<td>A beryllium copper spring</td>
<td>Provides high normal force at the mating interface</td>
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<td>Brass contact body</td>
<td>Produces a reliable, gas-tight crimp termination</td>
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<td>Choice of three different spring pressures</td>
<td>Allows the user to customize insertion and withdrawal forces to individual application requirements</td>
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<td>Shrouded header side walls engage with the sides of the MINI-LATCH housing</td>
<td>Provides additional retention</td>
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<td>Keyed MINI-LATCH housings and header keyways</td>
<td>Provide polarization to prevent mis-mating</td>
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<tr>
<td>Two wall header design</td>
<td>Provides mechanical benefits plus economy</td>
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Main Markets & Applications

- Instrumentation & Medical
- Industrial Equipments
- Consumer
- Automotive Electronics
- Data
- Communications
- Military
- Avionics
Marcomm Collaterals

Available on FCI.com:
  - Technical Data Sheet
Marcomm Collaterals

Available on FCI.com:
- Part Numbers & Drawings
- Product Specifications
THANK YOU