



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.

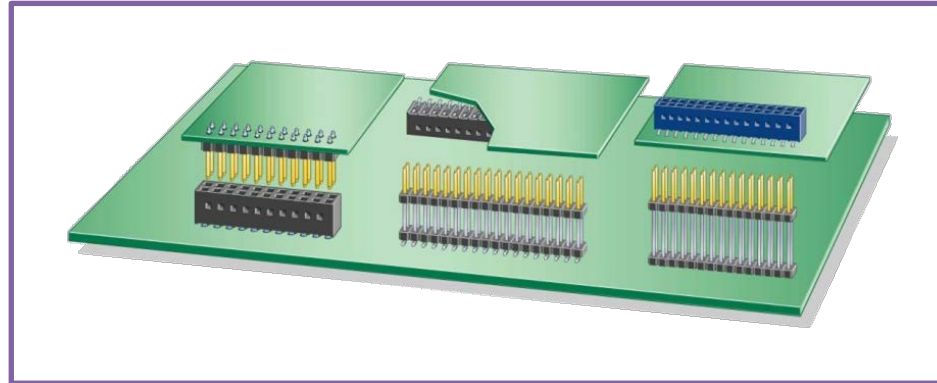
The patented female contact is giving outstanding electrical and mechanical properties to satisfy all the needs.

BTB – WTB – CTB

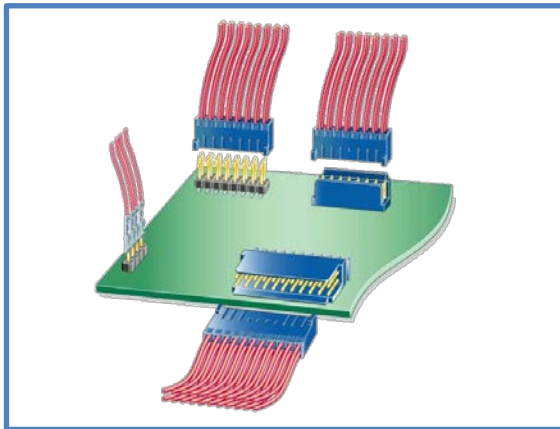
Solution Overview



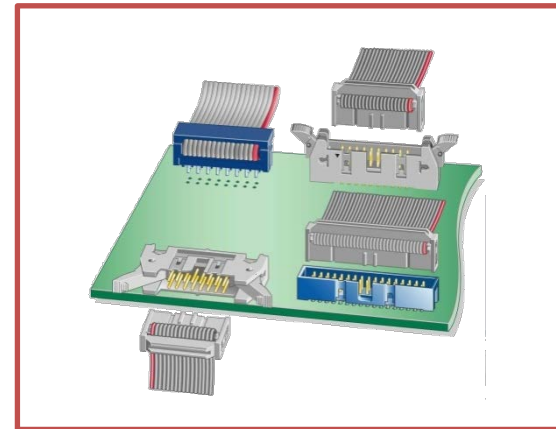
Board-to-Board



Wire-to-Board



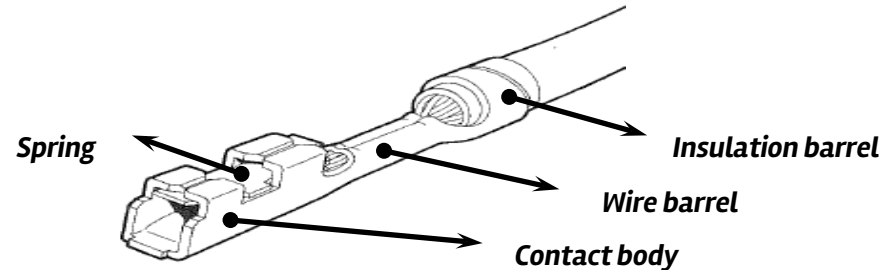
Cable-to-Board



Solution Overview – PV® connectors 2.54mm centerline

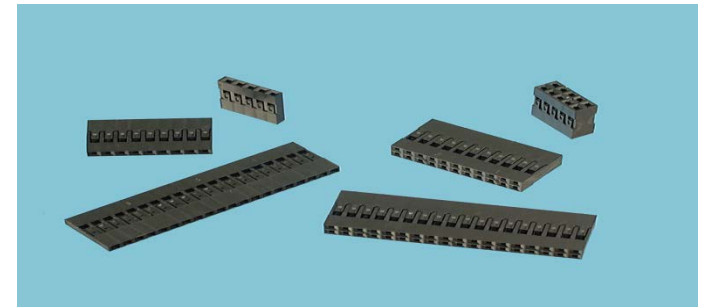
- PV Contacts

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



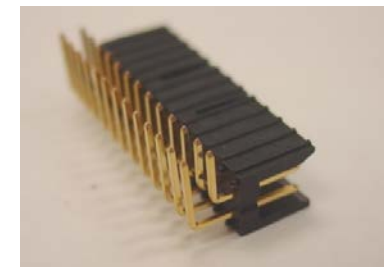
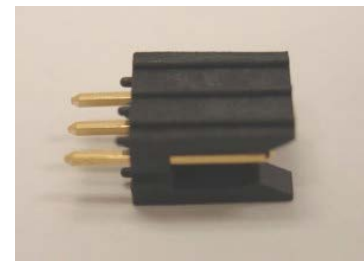
- PV Housings (65039- 65043- 65846)

- 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

Environmental

- Operating Temperature : -40°C to + 105°C

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

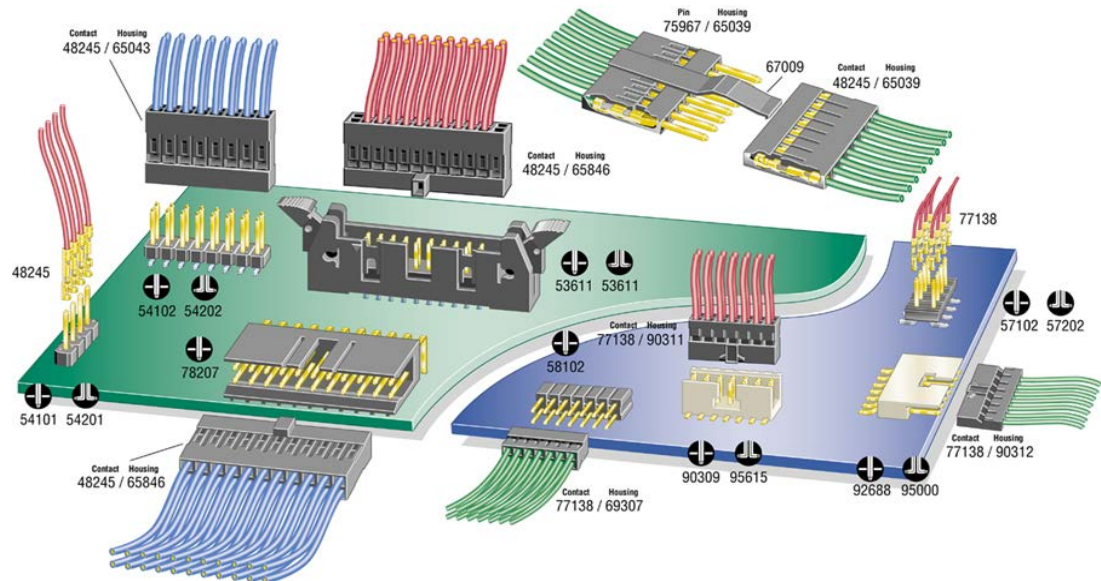
- Tape and Reel

Features & Benefits

Features	Benefits
Unique dual-metal PV® receptacle contact	Maintains contact pressure through 1000 mating cycles.
A beryllium copper spring	Provides high normal force at the mating interface
Brass contact body	Produces a reliable, gas-tight crimp termination
Choice of three different spring pressures	Allows the user to customize insertion and withdrawal forces to individual application requirements
Shrouded header side walls engage with the sides of the MINI-LATCH housing	Provides additional retention
Keyed MINI-LATCH housings and header keyways	Provide polarization to prevent mis-mating
Two wall header design	Provides mechanical benefits plus economy

Main Markets & Applications

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



Marcomm Collaterals

Available on FCI.com:

- Technical Data Sheet

BOARD/WIRE-TO-BOARD CONNECTORS

PV™ SHROUDED HEADERS

BOARD/WIRE-TO-BOARD CONNECTORS

PV® WIRE-TO-BOARD CONNECTOR SYSTEM
 Unique Design Provides High Reliability, High Durability And High Retention

OVERVIEW

The innovative PV™ wire-to-wire system connects discrete wire to printed circuit boards. High reliability dual-metal receptacle terminals plug to industry standard 0.025 inch (0.635mm) square pins. A variety of containment, protection and guidance options are available for both sides of the connector interface.

Wire side- PV® receptacle terminals can be terminated to wire and used discretely or inserted to multiple-circuit, M80-LATCH connector housings that include optional polarizing keys.

Printed Circuit side- Shrouded multiple-part, headers include an integral friction feature that grips the sides of the mating M80-LATCH housings and reduces the risk of disengagement. Other FCI header options include discrete spaced pins or BergStack™-shrouded headers.

FEATURES & BENEFITS

- Unique dual-metal PV® receptacle contact maintains contact pressure through 1000 mating cycles. A beryllium copper spring provides high normal force at the mating interface, while the tin contact body produces a reliable, gas-tight crimp termination.
- Choice of three different spring pressures allows the user to customize insertion and withdrawal forces to individual application requirements.
- Shrouded header side walls engage with the sides of the M80-LATCH housing to provide additional retention.
- M80-LATCH housing firmly retains PV® wire contacts.
- Available in single or double row configurations.
- Keyed M80-LATCH housings and header keyways provide polarization to prevent wire-mating.
- Two-wire header design provides mechanical benefits plus economy.
- Application tooling is supported by FCI.

TARGET MARKETS/APPLICATIONS

- Instrumentation and Medical
- Industrial equipment
- Consumer and white goods
- Automotive electronics
- Data and communications
- Military and avionics

SUPERIOR PERFORMANCE

Marcomm Collaterals

Available on FCI.com:

- Part Numbers & Drawings

Narrow By [Expand](#) Start > Crimp to Wire System >

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Part Number	Image	Status	Product Name
65043-011LF		ACTIVE	2.54 x 2.54 mm (0.1 x 0.1 in.) Centerline Crimp-to-Wire PV Receptacle Housing, Double Row
65043-012LF		ACTIVE	2.54 x 2.54 mm (0.1 x 0.1 in.) Centerline Crimp-to-Wire PV Receptacle Housing, Double Row
65043-022LF		ACTIVE	2.54 x 2.54 mm (0.1 x 0.1 in.) Centerline Crimp-to-Wire PV Receptacle Housing, Double Row
65043-023LF		ACTIVE	2.54 x 2.54 mm (0.1 x 0.1 in.) Centerline Crimp-to-Wire PV Receptacle Housing, Double Row
65043-024LF		ACTIVE	2.54 x 2.54 mm (0.1 x 0.1 in.) Centerline Crimp-to-Wire PV Receptacle Housing, Double Row
65239-012LF		ACTIVE	Crimp-to-Wire Housing, Double Row
65239-019LF		ACTIVE	Crimp-to-Wire Housing, Double Row

- Product Specifications

	TYPE	PRODUCT SPECIFICATION	NUMBER	BUS-12-067
TITLE	Crimp to Wire, Mini-PV™ Receptacles and Mini-Latch Housings			REVISION
ADDRESS	1 of 16	DATE	K	
CLASSIFICATION	UNRESTRICTED			

1.0 OBJECTIVE
This specification defines the performance, test, quality and reliability requirements of Crimp-to-Wire Mini-PV (TM) receptacles and Mini-Latch housings.

2.0 SCOPE
This specification is applicable to the termination characteristics of the Crimp-to-Wire Mini-PV (TM) receptacle and Mini-Latch housings which are designed for interconnection of discrete wires and 0.025 inch round or square pins.
These connectors provide only the receptacle half of the interconnection and are designed to mate with single or double rows of pins, free standing or in headers, on 0.100, 0.125, 0.150 or 0.156 inch centers.

3.0 GENERAL
This document is composed of the following sections:

Paragraph	Title
1.0	OBJECTIVE
2.0	SCOPE
3.0	GENERAL
4.0	APPLICABLE DOCUMENTS
5.0	REQUIREMENTS
5.1	Qualification
5.2	Material
5.3	Finish
6.4	Passive and Protection



THANK YOU

