

Value Proposition



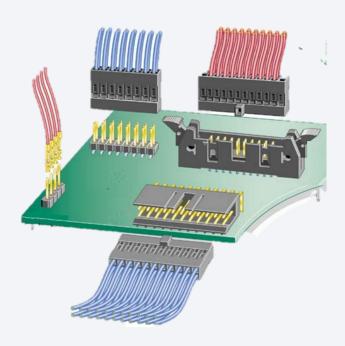
- PV® is the high performance, highly reliable Wire-to-Board; Wire-to-Wire and Board-to-Board system on 2.54mm pitch for shock and vibration applications
- Built around a dual metal contact system with three different spring pressures, PV® can be customized to meet specific insertion, withdrawal and normal force requirements
- The leaf spring contact design provides a constant contact pressure through 1,000 mating cycles to ensure excellent electrical and mechanical performance over time
- PV name stood for "Perpetual Virgin" because the contact was as good as new after many mating cycles.
- The crimp to wire contact range from 18 AWG to 32 AWG is offering a wide range of crimping possibilities

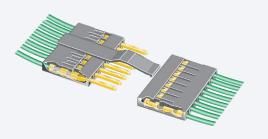


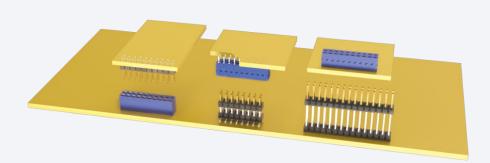
Wire-to-Board

Wire-to-Wire

Board-to-Board





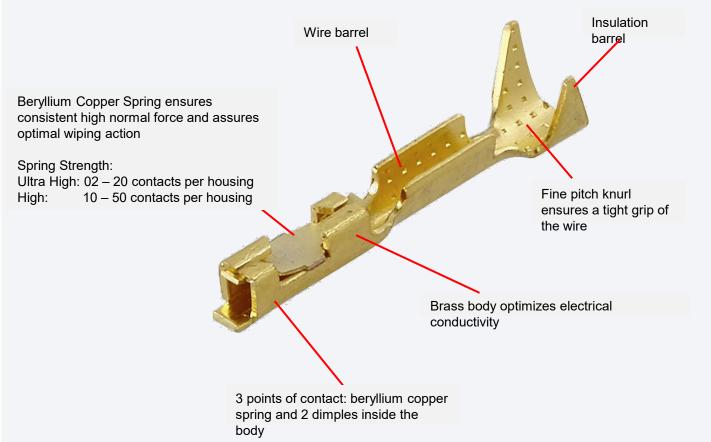


Unique Design Provides High Reliability, High Durability And High Retention

PV® **Contact System**



PV® Receptacle CTW

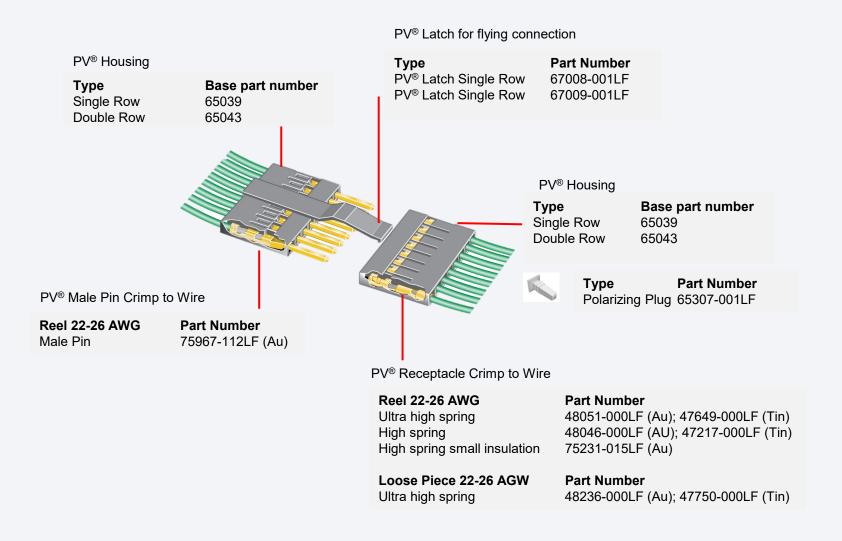


PV® Male Pin CTW



PV® Wire to Wire 1/2



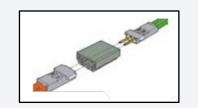


PV® Wire to Wire 2/2



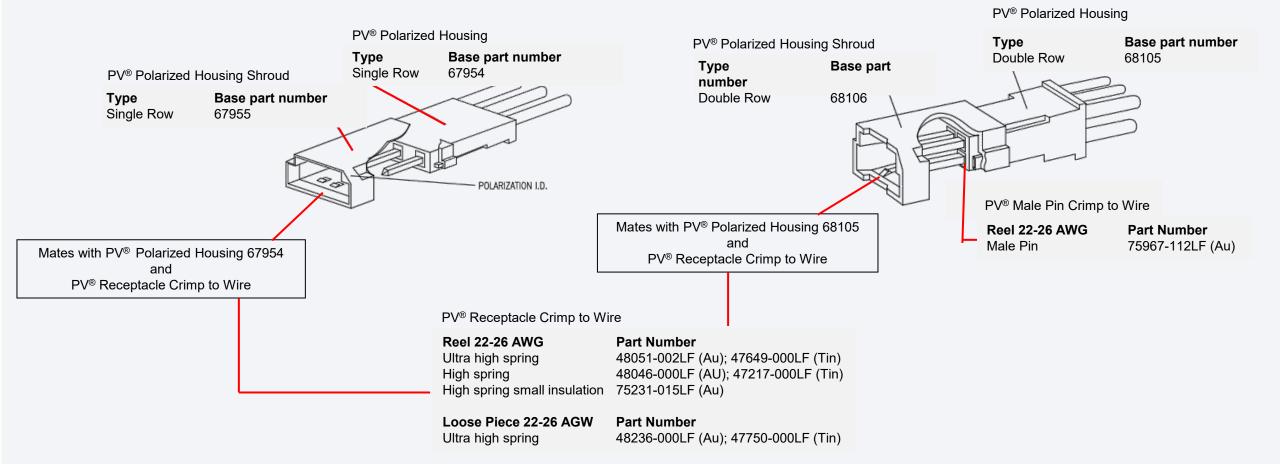
Single Row

2, 3 and 4 positions



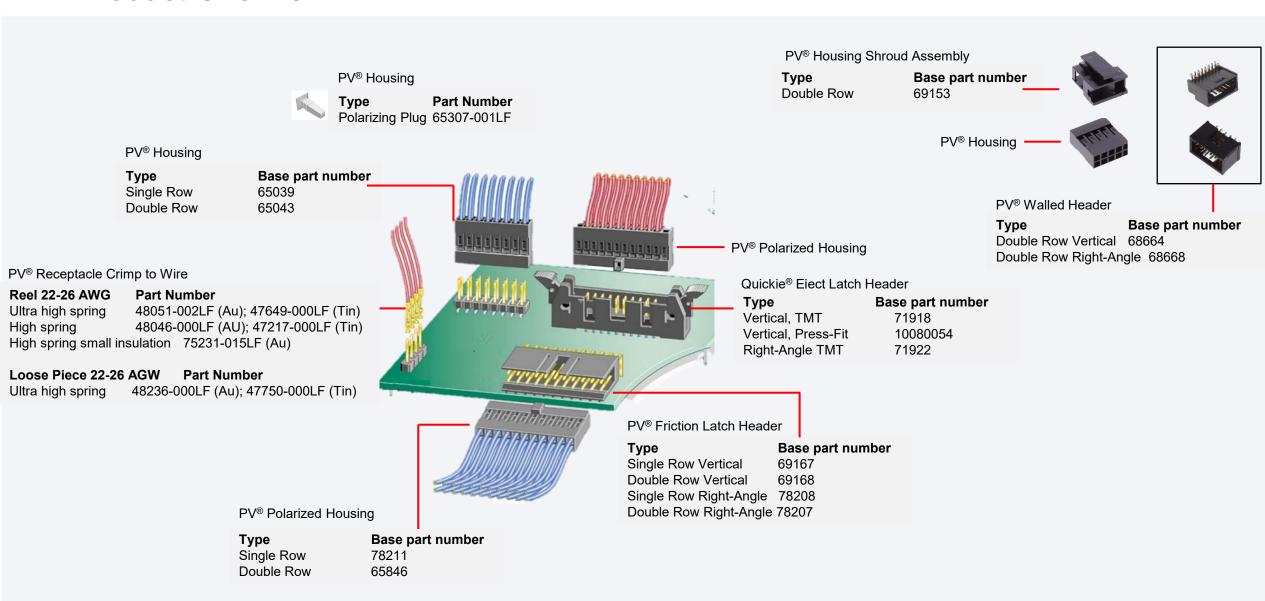
Double Row

4, 6 and 8positions



PV® Wire to Board **Product Overview**





PV® Board to Board **Product Overview**



BergStik® Vertical Unshrouded Header Single Row

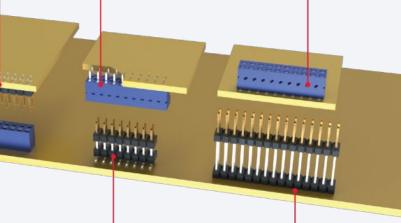
Base part number Type Single Row TMT 77311 Single Row SMT 95293 Single Row PiP 77311 Single Row Press-Fit 93689

BeraStik® Vertical Unshrouded Header Double Row

Type Base part number Double Row TMT 77313 Double Row SMT 95278 Double Row PiP 10076801 Double Row Press-Fit 10077239

PV® Vertical Receptacle Single Row

Type Base part number Single Row TMT 76308 (EU) / 66951 (US-ASIA)



PV® Vertical PCB Receptacle Double Row

Type Base part number

Double Row TMT 76314 (EU) / 66953 (US-ASIA)



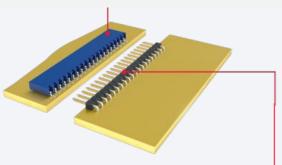
Part Number Polarizing Plug 65754-001LF

BergStik® Vertical Unshrouded Stacking Header

туре	Base part number	er
Single Row Stacking	, TMT	54121
Double Row Stacking	g, TMT	54222
Double Row Stacking	g, SMT	54242

PV® Horizontal Receptacle

Type Base part number Double Row TMT 66925 / 66527 (Guide Pin) 67230 Single Row TMT



BergStik® Right-Angle Unshrouded Header Double Row

Type Base part number Double Row TMT 77317 Double Row PiP 10082202 Double Row SMT 10118084 Double Row SMT (w/ pegs)10118085

BergStik® Right-Angle Unshrouded Header Single Row

Type Base part number Single Row TMT 77315 Single Row PiP 10082201 Single Row SMT 10119333 Single Row SMT (w/ pegs) 10119332



PV® Wire to Board / Wire to Wire Product Specification CTW Housings



Material	•Housing: Modified polyphenylene oxide •Flammability Rating: UL94V-0
Environmental	•Operating Temperature: -65°C to +105°C
Electrical Performance	 Current Rating: 3A continuous Insulation Resistance: 1 x 105 MΩmin. Dielectric Withstanding Voltage: 1000Vrms min. Contact Resistance: 15mΩ max
Mechanical Performance	•PV® Contact Retention in Housing: 4lbs per contact (18N)



PV[®] Wire to Board Product Specification Shrouded Headers



Material	 Housing: Glass filled nylon Flammability Rating: UL94V-0 Contact: Phosphor bronze Plating: Gold or GXT™ (palladium-nickel with gold flash) or lead-free pure tin over nickel
Environmental	•Operating Temperature: -40°C to +105°C
Electrical Performance	•Current rating: 3 A continuous •Withstanding Voltage: 1000V RMS •Insulation Resistance: >5000MΩ •Contact Resistance (LLCR), Wire Connector: <2mΩ
Mechanical Performance	•Mating cycles (durability): 1,000 - Gold



PV® Crimp to Wire contacts Product Specification



Material	Contact: Brass body and beryllium copper spring Plating: : Gold or lead-free pure tin over nickel
Environmental	•Operating Temperature: -40°C to +105°C
Electrical Performance	•Current Rating: 3A continuous •Withstanding Voltage: 1000V RMS •Insulation Resistance: >10000MΩ •Contact Resistance (LLCR): <2mΩ per contact
Mechanical Performance	 Mating Force (individual contact max.) High Force Spring: 450g; Ultra-high Force Spring: 1100g Un-mating force (individual contact min.) High Force Spring: 75g; Ultra-high Force Spring: 175g Wire Gauge: 18 to 32 AWG Mating force gold plating: from 1.35N to 5.75N (spring thickness dependent) Unmating force gold plating from 0.45N to 1.75N (spring thickness dependent)

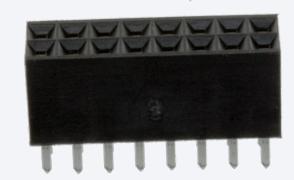




PV® PCB Receptacle Product Specification



Material	•Contact: Phosphor-bronze •Plating: 0.76µm Gold or GXT [®] on contact, Tin on contact area
Environmental	•Operating Temperature: -40°C to +105°C
Electrical Performance	 Current Rating: 3A continuous Dielectric Withstanding Voltage: 1000Vrms min. Contact Resistance: 15mΩ max
Mechanical Performance	 Contact retention force to Housing: 15N per contact Insertion force per Gold contact: 3N Withdrawal force per Gold contact: 0.40N (30gf) min



PV[®] Features and Benefits



Features	Benefits
High performance dual-metal PV® contact system	Maintains contact pressure through 1,000 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 specific application requirements
Wire to Board shrouded headers 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
PCB Receptacles up to 130 positions	Meets a variety of demanding application requirements

PV® Additional information



PV® web product presentation

PV® Wire to Board datasheet

PV® Wire to Board Friction Latch Headers product specification

PV® Wire to Board Crimp Contacts and Housings product specification

PV® PCB Receptacle <u>product configurator</u>

Thank You



