



**THE DATASHEET OF  
PES-04-02-L-VT**

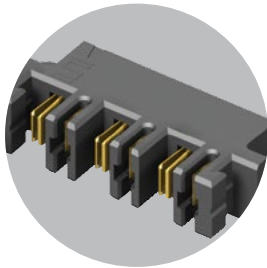


## HIGH POWER SYSTEMS

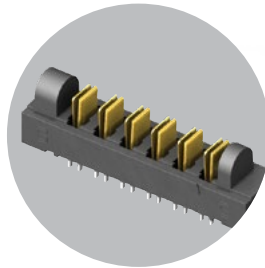
**20-60 A**  
per blade

### FEATURES & BENEFITS

- Current Rating: 23 A - 58.7 A per power blade
- 3.81 mm, 5.00 mm and 6.35 mm pitch
- Dual blade contact system
- Power only or power/signal combinations available
- Right-angle and vertical orientations
- Rugged screw down and locking clip options
- Discrete wire cable assemblies with 10-16 AWG wire (see pages 246-248)
- "Hinged" for unique mating in any orientation from 0° to 90° and space confined applications



Hermaphroditic options  
[samtec.com?MPPT](http://samtec.com?MPPT) and  
[samtec.com?UPPT](http://samtec.com?UPPT)



Hinging options available  
[samtec.com?FMPT](http://samtec.com?FMPT) and  
[samtec.com?FMPS](http://samtec.com?FMPS)

### CREEPAGE & CLEARANCE

| SERIES            | CREEPAGE | CLEARANCE |
|-------------------|----------|-----------|
| UPT/UPS/UPPT      | 5.50 mm  | 1.51 mm   |
| MPT/MPS/MPTC/MPSC | 2.95 mm  | 2.71 mm   |
| PET/PES/PETC/PESC | 3.66 mm  | 3.31 mm   |

Selectively loading contacts achieves customer specific creepage and clearance requirements.

### KEY SPECIFICATIONS

| SERIES    | PITCH  | INSULATOR MATERIAL | CONTACT MATERIAL   | PLATING                             | OPERATING TEMP RANGE                             | CURRENT RATING   | VOLTAGE RATING                 | LEAD-FREE SOLDERABLE |
|-----------|--|--------------------|--|-------------------------------------|--|--|--------------------------------|----------------------|
| UPT/UPS   | (3.81 mm)<br>.150"                                   | Black LCP          | BeCu   | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 23 A<br>(1 pin powered)  | 438 VAC                        | Yes                  |
| UPPT      | (3.81 mm)<br>.150"                                   | Black LCP          | Copper Alloy   | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 21.4 A<br>(1 pin powered)  | 425 VAC                        | Yes                  |
| MPT/MPS   | (5.00 mm)<br>.1969"                                  | Black LCP          | Copper Alloy   | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 28.8 A<br>(1 pin powered)  | 575 VAC                        | Yes                  |
| MPTC/MPSC | (5.00 mm)<br>.197" (pwr)<br>(2.00 mm)<br>.079" (sig) | Black LCP          | Signal:<br>Phosphor<br>Bronze<br>Terminal:<br>Copper Alloy | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 28.8 A<br>(pwr - 1 pin powered)<br>5 A<br>(sig - 4 pins powered)   | 250 VAC                        | Yes                  |
| PET/PES   | (6.35 mm)<br>.250"                                   | Black LCP          | Copper Alloy   | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 58.7 A<br>(1 pin powered)  | 450 VAC                        | Yes                  |
| PETC/PESC | (6.35 mm)<br>.250" (pwr)<br>(2.54 mm)<br>.100" (sig) | Black LCP          | Copper Alloy   | Sn or Au over<br>50 μ" (1.27 μm) Ni | -55 °C to +105 °C (Sn)<br>-55 °C to +125 °C (Au) | 31.4 A<br>(pwr - 1 pin powered)<br>5.7 A<br>(sig - 4 pins powered) | 650 VAC (pwr)<br>450 VAC (sig) | Yes                  |

# POWER™ STRIP40

(6.35 mm) .250" PITCH • 40 A HIGH-POWER SYSTEM

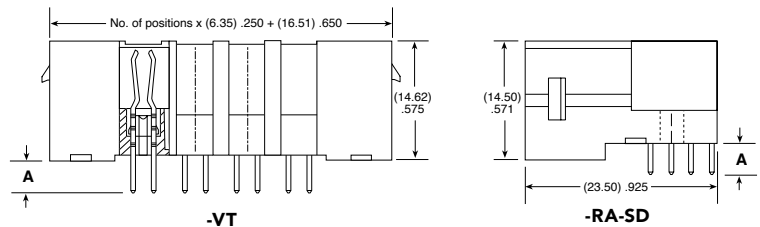
| PET | NO. PINS PER ROW      | LEAD STYLE   | PLATING OPTION  | TAIL OPTION  | OTHER OPTION                              |
|-----|-----------------------|--|---|--|---|
|     | -02, -04,<br>-06, -08 | -01<br>= Use with<br>(1.60 mm) .062"<br>Thick PCB<br><br>-02<br>= Use with<br>(3.18 mm) .125"<br>Thick PCB | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact,<br>Matte Tin on tail<br><br>-T<br>= Matte Tin | -VT<br>= Vertical<br><br>-RA<br>= Right-angle<br>(Screw Down<br>option required) | -SD<br>= Screw Down<br>(Right-angle only) |

## PET

Board Mates:  
PES  
Cable Mates:  
PESS



| TAIL LENGTH | A           |
|-------------|-------------|
| -01         | (2.35) .093 |
| -02         | (3.95) .156 |



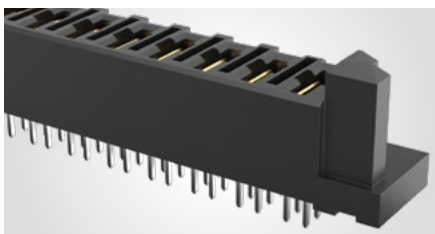
**Note:** Some lengths, styles and options are non-standard, non-returnable

View complete specifications at: [samtec.com?PET](http://samtec.com?PET)

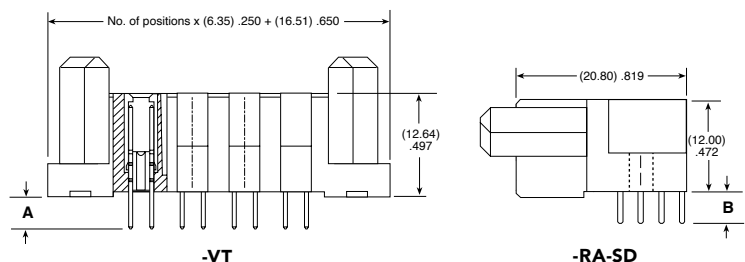
| PES | NO. PINS PER ROW      | LEAD STYLE   | PLATING OPTION  | TAIL OPTION  | OTHER OPTION                              |
|-----|-----------------------|--|---|--|---|
|     | -02, -04,<br>-06, -08 | -01<br>= Use with<br>(1.60 mm) .062"<br>Thick PCB<br><br>-02<br>= Use with<br>(3.18 mm) .125"<br>Thick PCB | -L<br>= 10 μ" (0.25 μm)<br>Gold on contact,<br>Matte Tin on tail<br><br>-T<br>= Matte Tin | -VT<br>= Vertical<br><br>-RA<br>= Right-angle<br>(Screw Down<br>option required) | -SD<br>= Screw Down<br>(Right-angle only) |

## PES

Board Mates:  
PET



| TAIL LENGTH | A           | B           |
|-------------|-------------|-------------|
| -01         | (2.47) .097 | (2.35) .093 |
| -02         | (4.07) .160 | (3.95) .156 |




**Note:** Some lengths, styles and options are non-standard, non-returnable

View complete specifications at: [samtec.com?PES](http://samtec.com?PES)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View PES-04-02-L-VT on WIN SOURCE](#)

 [Samtec Inc. Information](#)

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