WORLD PRODUCTS INC.® is the Exclusive Agent in North America for Ebusbar® HV Relays for EV.

HIGH VOLTAGE CONNECTOR
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Ebusbar established in 2010 with a registered capital of 53 million. It focus on the core components of EV, new energy research and development, production and sales of the national high-tech enterprises. Its products including laminate busbar, EV & PHEV charging connectors, high-voltage electric vehicle connection system, Charging equipment and operation solutions, EV battery Box Solutions, MCU and multi-in-one integrated solutions, HV relays, Depend on a strong R & D and experimental capabilities, advanced and highly efficient manufacturing capabilities. Ebusbar will have to continue to provide our customers professional and innovative solutions, fast and flexible service and high quality products.
Metal HV Connector Series

Current[A]@125°C

- Class1 up to 35A / 4mm²
- Class2 up to 120A / 6mm²
- Class3 up to 150A / 16mm²
- Class4 up to 250A / 50mm²

![Graph showing current ratings for different classes at 125°C](image-url)
HV CONNECTOR PT SERIES
高压连接器PT系列
## HV Connector PT Series

### PT 1 - P S 060 N - 1 A N R - C 02

<table>
<thead>
<tr>
<th>系列/Type</th>
<th>插头/插座</th>
<th>插针规格/Structure Pin Specification</th>
<th>屏蔽/Shielding</th>
<th>芯数/Positions</th>
<th>防呆键位/Key</th>
<th>高压互锁/HVIL</th>
<th>产品颜色/Color</th>
<th>接线方式/Connection Method</th>
<th>接线规格/Wire Specification</th>
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<tbody>
<tr>
<td>01</td>
<td>Plug</td>
<td>S 直/180°</td>
<td>024 2.4mm</td>
<td>1 单芯1POS</td>
<td>A</td>
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<td>A 橙色Orange</td>
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<td>01-1.5mm²</td>
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<tr>
<td>02</td>
<td>Plug</td>
<td>A 弯头90°</td>
<td>036 3.6mm</td>
<td>2 2芯2POS</td>
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<td>B 黑色Black</td>
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<td>03</td>
<td>Plug</td>
<td>F 有法兰/With Flange</td>
<td>060 6.0mm</td>
<td>3 3芯3POS</td>
<td>Z</td>
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<td>C 压接Crimping</td>
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<td>03-4mm²</td>
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<tr>
<td>04</td>
<td>Header</td>
<td>R 无法兰/Without Flange</td>
<td>080 8.0mm</td>
<td>4 4芯4POS</td>
<td>L 绿色Green</td>
<td></td>
<td>D</td>
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<td>04-10mm²</td>
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</table>

**.worldproductsinc.com**
PT 1, 080, 1POS Connector

**Specifications:**

- **Rated Voltage:** 800V DC
- **Rated Current:** 150A Max.
- **Temperature Range:** -40°C ~ 125°C
- **Cable Range:** 25~35mm²
- **Shielding:** 360°
- **Mating Cycles:** ≥ 100
- **IP Class:** IP67 (Mated)
- **Touch Proof:** IP2XB
- **Flame Class:** UL94-V0 (Thermoplastic Plastics)
- **Positions:** Single 1POS
- **HVIL:** No

**Features and Benefits:**

- 8mm plug
- 8mm pin
- Various wire applications
- Easy operation, little operation space.
- Excellent insulation
- 5 key positions available
- Male and female end waterproof seal IP67 level

**Applications:**

- PDU, Battery, Motor Controller, Electric Machinery
### Order Information:

**Plug:**

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<thead>
<tr>
<th>插头 Plug</th>
<th>屏蔽 Shielding</th>
<th>芯数 POS</th>
<th>键位 Key</th>
<th>高压互锁 HVIL</th>
<th>颜色 Color</th>
<th>接线规格 Wire Specification</th>
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<tr>
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<td>PT1-PS080</td>
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<td>Z</td>
<td>N</td>
<td>A</td>
<td>~C06/~C07</td>
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</tr>
<tr>
<td>S</td>
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Note: Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.

**Header:**

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<tr>
<th>插座 Header</th>
<th>屏蔽 Shielding</th>
<th>芯数 POS</th>
<th>键位 Key</th>
<th>高压互锁 HVIL</th>
<th>颜色 Color</th>
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<td>PT1-RF080</td>
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<td>~H02 / ~H12 / ~T02</td>
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</tr>
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<td></td>
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</table>

Note: Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.
PT1,120,1POS Connector

**Specifications:**

- Rated Voltage: 850V DC
- Rated Current: 250A Max.
- Temperature Range: -40℃ ~ 125℃
- Cable Range: 50~70mm²
- Shielding: 360°
- Mating Cycles: ≥ 100
- IP Class: IP67 (Mated)
- Touch Proof: IP2XB
- Flame Class: UL94-V0 (Thermoplastic Plastics)
- Positions: Single 1POS
- HVIL: No

**Features and Benefits:**

- 12mm Pin
- Various wire application
- Easy operation, little operation space.
- Excellent insulation
- 5 Keys position available
- Male and female end waterproof seal IP67 level

**Applications:**

- PDU, Battery, Motor Controller, Electric Machinery
### Order Information:

#### Plug:

<table>
<thead>
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<th>Plug</th>
<th>Shielding</th>
<th>POS</th>
<th>Key</th>
<th>HVIL</th>
<th>Color</th>
<th>Wire Specification</th>
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<tr>
<td>N</td>
<td></td>
<td>1</td>
<td>Z</td>
<td>N</td>
<td>A</td>
<td>~CO8/~CO9</td>
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<td>U</td>
<td>Y</td>
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Note: Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.

#### Header:

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<th>HVIL</th>
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<td>A</td>
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</table>

Note: Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.
PT2, 030, 2POS Connector

**Specifications:**

- Rated Voltage: 800V DC
- Rated Current: 35A Max.
- Temperature Range: −40°C～125°C
- Cable Range: 2.5～6mm²
- Shielding: No
- Mating Cycles: ≥100

**Features and Benefits:**

- 3mm Pin
- Various wire application
- 3mm Plug
- Easy operation, little operation space.

- IP Class: IP67 (Mated)
- Touch Proof: IP2XB
- Flame Class: UL94-V0 (Thermoplastic plastics)
- Positions: 2 POS
- HVIL: No

**Applications:**

- PDU, Charger, Air Conditioner
### Order Information:

#### Plug:

<table>
<thead>
<tr>
<th>Plug</th>
<th>Shielding</th>
<th>POS</th>
<th>Key</th>
<th>HVIL</th>
<th>Color</th>
<th>Wire Specification</th>
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<td>L</td>
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<td></td>
<td>S</td>
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<th>Color</th>
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<td>-C11</td>
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</table>
PT3, 030, 2POS Connector

**Specifications:**

- **Rated Voltage:** 800V DC
- **Rated Current:** 35A Max.
- **Temperature Range:** -40°C~125°C
- **Cable Range:** 4~6mm²
- **Shielding:** No
- **Mating Cycles:** ≥500
- **IP Class:** IP67 (Mated)
- **Touch Proof:** IP2XB
- **Flame Class:** UL94-V0 (Thermoplastic Plastics)
- **Positions:** 2 power + 2 signal
- **HVIL:** No

**Features and Benefits:**

- **3mm Pin**
- **Various wire application**
- **Easy operation, little operation space.**
- **Excellent insulation**
- **2 Keys position available**
- **Male and female end waterproof seal IP67 level**

**Applications:**

- PDU, Charger, Air Conditioner
### Order Information:

#### Plug:

<table>
<thead>
<tr>
<th>插头 Plug</th>
<th>屏蔽 Shielding</th>
<th>芯数 POS</th>
<th>键位 Key</th>
<th>高压互锁 HVIL</th>
<th>颜色 Color</th>
<th>接线规格 Wire Specification</th>
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<td>A</td>
<td>N</td>
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<td>S</td>
<td>Y</td>
<td></td>
<td>R/B</td>
<td>-C11</td>
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**Note:** Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.

#### Header:

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<th>芯数 POS</th>
<th>键位 Key</th>
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<th>颜色 Color</th>
<th>接线规格 Wire Specification</th>
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<td>N</td>
<td>R/B</td>
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<td>Y</td>
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<td>-C11</td>
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</table>

**Note:** Keys corresponding color alone. e.g.: Key A only has color R Key Y only has color B.
PT3, 030, 3POS Connector

规格参数 Specifications:

- 额定电压 Rated Voltage: 800V DC
- 额定电流 Rated Current: 35A Max.
- 工作温度 Temperature Range: -40°C ~ 125°C
- 线缆范围 Cable Range: 4~6mm²
- 屏蔽 Shielding: 无 No
- 插拔寿命 Mating Cycles: ≥500
- 防护等级 IP Class: IP67 (Mated)
- 电气保护 Touch Proof: IP2XB
- 燃烧等级 Flame Class: UL94-V0 (Thermoplastic Plastics)
- 芯数 Positions: 3芯动力+3芯信号
- 高压互锁 HVIL: 无 No

特征和优点 Features and Benefits:

- 3mm插针 3mm Pin
- 多种线径应用 Various wire application
- 操作简单，操作空间小 Easy operation, little operation space.
- 优越的电气绝缘性 Excellent insulation
- 2种结构防呆 2 Keys position available
- 公母端防水密封 IP67等级 Male and female end waterproof seal IP67 level

应用 Applications:

- PDU，充电机，空调 PDU，Charger，Air Conditioner
**Order Information:**

### Plug:

<table>
<thead>
<tr>
<th>Plug</th>
<th>Shielding</th>
<th>POS</th>
<th>Key</th>
<th>HVIL</th>
<th>Color</th>
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**Order Information:**

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</table>
PT4,120,1POS Connector

**Specifications:**

- **Rated Voltage:** 800V DC
- **Rated Current:** 250A Max.
- **Temperature Range:** -40°C ~ 125°C
- **Cable Range:** 50~70mm²
- **Shielding:** 360° Screen Shielding
- **Mating Cycles:** ≥ 100
- **IP Class:** IP67 (Mated)
- **Touch Proof:** No
- **Flame Class:** UL94-V0 (Thermoplastic Plastics)
- **Positions:** Single 1POS
- **HVIL:** No

**Features and Benefits:**

- **12mm Pin:**
- **Various Wire Application:**
- **Easy Operation:** Little Operation Space.
- **Excellent Insulation:**
- **6 Keys Position Available:**
- **Male and Female End Waterproof Seal IP67 Level:**

**Applications:**

- PDU, Battery, Motor Controller, Electric Machinery
### 订购信息 Order Information:

#### 直插头 Straight Plug:

<table>
<thead>
<tr>
<th>插头 Plug</th>
<th>键位 Key</th>
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</table>

PT4-PS120S-1

备注：键位单独对应颜色，如：键位A只能选颜色A，键位Y只能选颜色B...

#### 弯插头 Angle Plug:

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<thead>
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<th>键位 Key</th>
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PT4-PA120S-1

备注：键位单独对应颜色，如：键位A只能选颜色A，键位Y只能选颜色B...

#### 插座—(压接/螺纹连接) Header:

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</table>

PT4-RF120S-1

备注：键位单独对应颜色，如：键位A只能选颜色A，键位Y只能选颜色B...
For over 45 years, World Products Inc.® (WPI) has worked with Tier 1 automotive suppliers and has offered the highest quality products with superior technical support to the automotive industry. WPI brings additional value in today’s electric vehicle market with our award-winning customer service and a dedicated automotive sales force, while providing our customers with environmentally sound and technologically advanced products. WPI consistently delivers the highest quality products at competitive prices and we support our customers with a world-wide distribution network which assists their businesses to successfully compete in a global market.