Mating receptical to be assembled as a set

**Connector A**
Manufacturer: JST  
Part #: S2B-PH-K-S  
Plug entry view

**Connector B**
Manufacturer: JST  
Part #: PHR-2  
Crimp Pin Part #: SPH-002T-P0.5S  
Or equivalent

**Wire Entry View**
Scale 5.00

<table>
<thead>
<tr>
<th>Connector A Pin</th>
<th>Connector B Pin</th>
<th>Wire Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Braided 24 AWG - Red</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Braided 24 AWG - Black</td>
</tr>
</tbody>
</table>

Shielding and cable jacket type are not of importance.

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**JST_3-PIN_WITH_WIREOUTS**

<table>
<thead>
<tr>
<th>Units In</th>
<th>Drawn by Spark Fun Electronics for Price Quote</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 Apr 10</td>
<td></td>
</tr>
</tbody>
</table>

Tolerance +/- 0.125

<table>
<thead>
<tr>
<th>Tolerance +/- 0.125</th>
<th>Drafter</th>
<th>HH</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HH</td>
<td></td>
<td>1.25</td>
</tr>
</tbody>
</table>
**Connector A**
- Manufacturer: JST
- Part #s: S3B-PH-K-S... S5B-PH-K-S
- Or equivalent
- Plug entry view

**Connector B**
- Manufacturer: JST
- Part #s: PHR-3...PHR-5
- Crimp Pin Part #: SPH-002T-P0.5S
- Or equivalent
- Wire Entry View

Scale 5.00

<table>
<thead>
<tr>
<th>Connector A Pin</th>
<th>Connector B Pin</th>
<th>Wire Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Braided 24 AWG - Yellow</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Braided 24 AWG - Black</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>Braided 24 AWG - Red</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>Braided 24 AWG - Blue</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>Braided 24 AWG - Green</td>
</tr>
</tbody>
</table>

Sheilding and cable jacket type are not of importance.

Tolerances, Unless noted:
- 0.0 +/-
- 0.00 +/-
- 0.000 +/-

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<tr>
<th>Units in</th>
<th>Drawn by Spark Fun Electronics for Price Quote</th>
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<tbody>
<tr>
<td>20 Apr 10</td>
<td></td>
</tr>
<tr>
<td>Tolerance +/- 0.125</td>
<td>Drafter   HH Scale 1.25</td>
</tr>
<tr>
<td>Set number</td>
<td>Part Numbers (Parts from JST or equivalent)</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------</td>
</tr>
</tbody>
</table>
| 1          | 1 x S2B-PH-K-S  
1 x PHR-2  
2 x SPH-002T-P0.5S  
2 x Braided 24 AWG | Wire colors and order given on sheet 1 |
| 2          | 1 x S3B-PH-K-S  
1 x PHR-3  
3 x SPH-002T-P0.5S  
3 x Braided 24 AWG | Wire colors and order given on sheet 2  
(use yellow, black, & red wires) |
| 3          | 1 x S4B-PH-K-S  
1 x PHR-4  
4 x SPH-002T-P0.5S  
4 x Braided 24 AWG | Wire colors and order given on sheet 2  
(use yellow, black, red, and blue wires) |
| 4          | 1 x S5B-PH-K-S  
1 x PHR-5  
5 x SPH-002T-P0.5S  
5 x Braided 24 AWG | Wire colors and order given on sheet 2  
(use yellow, black, red, blue, and green wires) |

Wire colors and order given on sheet 1  
(use yellow, black, red, && green wires)