Bobble-Bot Electrical

Notes for Fabrication

Motors terminated with bullet connectors will be changed to ring lugs.
P/N 55803015 or substitute automotive grade ring lug
Parts List

<table>
<thead>
<tr>
<th>Component</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Female Connector</td>
<td>XT30-F</td>
</tr>
<tr>
<td>Male Connector</td>
<td>XT30-M</td>
</tr>
<tr>
<td>Wire - 18 AWG</td>
<td>952140609</td>
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</tbody>
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Variants

<table>
<thead>
<tr>
<th>Variant</th>
<th>Length</th>
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<tbody>
<tr>
<td>BB2E001-1</td>
<td>13cm</td>
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<tr>
<td>BB2E001-2</td>
<td>25cm</td>
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</tbody>
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Notes for Fabrication

Shields shall be left floating

Heat shrink shall be applied to each end to cover exposed connector terminals.

Legend

- BLACK
- RED
**Parts List**

- Male Connector: 5023800400
- Crimp Connectors: 5023810000
- Wire: 26-28 AWG Cable
  - Twisted pair - various manufacturers.
  - Single pair of ethernet cable works well.

**Notes for Fabrication**

Wire protected by nylon mesh - P/N BSLNY025
Parts List
Male Connector  5023800900
Crimp Connectors  5023810000
Wire  28 AWG Cable - 2671/28WH-1000

Notes for Fabrication
Wire protected by nylon mesh - P/N BSLNY025
**Parts List**

- Male Connector: 5023800900
- Crimp Connectors: 5023810000
- Wire: 28 AWG Cable - 2671/28WH-1000

**Notes for Fabrication**

- Wire protected by nylon mesh - P/N BSLNY025
- IMU is connected by flying leads - denoted on board silkscreen.
- Length of cable is 10"
Parts List

- Male Connector: 5023800400
- Crimp Connectors: 5023810000
- Wire: 26-28 AWG Cable
  - Twisted pair - various manufacturers.
  - Single pair of ethernet cable works well.

Notes for Fabrication

Wire protected by nylon mesh - P/N BSLNY025

Raspberry Pi Side

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<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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PDU Side

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10cm

Notes for Fabrication

These leads can be connected to an external switch.
for additional control of power to motor drives.
If desired, they can be tied together as a loopback to bypass
the need for an external switch.