IP68, Tested in accordance with EN60529:1992+A2:2013
IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
USB version 2.0 performance
Plug and play capability
Visual mating indication
Shielded system
Single and double ended cables
Screw coupling
PCB versions
Dust and waterproof sealing when mated

Low and high speed bus connection, 1.5Mbps to 480Mbps
Hot pluggable, standard 4 Contacts interface
Alignment indicator reduces risk of damage during mating
High noise immunity and EMI protection
Suitable for PC and peripheral configuration
Secure, proven locking system
Direct mounting or via adaptor leads
EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
Sealed USB Cables - Single Ended

- Single ended sealed cable assembly
- IP68 ‘A’ type USB connector to standard ‘B’ type USB connector, mates with all panel mount connectors
- IP68 ‘B’ type USB connector to standard ‘A’ type USB connector, mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0840/A/2M00</td>
<td>2m</td>
<td>IP68 A type USB to standard B type USB</td>
</tr>
<tr>
<td>PX0840/A/3M00</td>
<td>3m</td>
<td>IP68 A type USB to standard B type USB</td>
</tr>
<tr>
<td>PX0840/A/5M00</td>
<td>5m</td>
<td>IP68 A type USB to standard B type USB</td>
</tr>
<tr>
<td>PX0840/B/2M00</td>
<td>2m</td>
<td>IP68 B type USB to standard A type USB</td>
</tr>
<tr>
<td>PX0840/B/3M00</td>
<td>3m</td>
<td>IP68 B type USB to standard A type USB</td>
</tr>
<tr>
<td>PX0840/B/5M00</td>
<td>5m</td>
<td>IP68 B type USB to standard A type USB</td>
</tr>
</tbody>
</table>

Sealed USB Cables Double Ended

- Double ended sealed cable assembly
- IP68 ‘A’ type USB connector to IP68 ‘B’ type USB connector
- Mates with all panel mount connectors
- Available in 2m, 3m & 5m lengths

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Length</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0841/AB/2M00</td>
<td>2m</td>
<td>IP68 A type USB to IP68 B type USB</td>
</tr>
<tr>
<td>PX0841/AB/3M00</td>
<td>3m</td>
<td>IP68 A type USB to IP68 B type USB</td>
</tr>
<tr>
<td>PX0841/AB/5M00</td>
<td>5m</td>
<td>IP68 A type USB to IP68 B type USB</td>
</tr>
</tbody>
</table>
BUCCANEER FOR DATA
Standard Buccaneer - USB

Front Panel Mounting Connector

- PX0842/A - USB 'A' type IP68 connector
- PX0842/B - USB 'B' type IP68 connector
- Opposite connector to rear of panel
- Mates with PX0840 and PX0841 cable connectors

Part no. | Description
--- | ---
PX0842/A | IP68 A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.
PX0842/B | IP68 B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

Front Panel Mounting Connector

- PX0843/A - USB 'A' type IP68 connector
- PX0843/B - USB 'B' type IP68 connector
- Leaded with 5 way crimp connector
- Mates with PX0840 and PX0841 cable connectors

Part no. | Description
--- | ---
PX0843/A | IP68 A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PX0843/B | IP68 B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
PX0460/A | As PX0843/A with exposed braid for use with PX0465 screening can
PX0460/B | As PX0843/B with exposed braid for use with PX0465 screening can

Front Panel Mounting Connector

- IP68 Sealed through panel
- PX0844/A - USB 'A' type IP68 connector
- PX0844/B - USB 'B' type IP68 connector
- Standard USB interface plug options to rear of panel
- 500mm standard cable length, other lengths available
- Mates with PX0840 and PX0841 cable connectors

Part no. | Description
--- | ---
PX0844/A/0M50/A | IP68 A type USB, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘A’ type at rear
PX0844/A/0M50/B | IP68 A type USB, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘B’ type at rear
PX0844/B/0M50/A | IP68 B type USB, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘A’ type at rear
PX0844/B/0M50/B | IP68 B type USB, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘B’ type at rear
### Rear Panel Mounting Connector

**Part no.** | **Description**
---|---
PX0848/A | IP68 A type USB, rear panel mounted. Sealed A type at front of panel, standard B type at rear.
PX0848/B | IP68 B type USB, rear panel mounted. Sealed B type at front of panel, standard A type at rear.

### Rear Panel Mounting Connector

**Part no.** | **Description**
---|---
PX0849/A | IP68 A type USB, rear panel mounted. Sealed A type at front of panel, 5 way header at rear.
PX0849/B | IP68 B type USB, rear panel mounted. Sealed B type at front of panel, 5 way header at rear.

### PCB Panel Mounting Connector- PCB Direct Mount

**Part no.** | **Description**
---|---
PX0845/A | IP68 A type USB, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear.
PX0845/B | IP68 B type USB, rear panel mounted. Sealed B type at front of panel, direct mount PCB contacts at rear.
## Standard Buccaneer - USB

### Accessories

#### PCB Adaptor Leads
- Standard A and B type USB connectors to 5 way crimp adaptor leads
- 5 way headers, 2.54mm pitch, horizontal or vertical mounting

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14193</td>
<td>USB 'A' type to 5 way crimp connector</td>
</tr>
<tr>
<td>14194</td>
<td>USB 'B' type to 5 way crimp connector</td>
</tr>
<tr>
<td>14191</td>
<td>5 way PCB header straight</td>
</tr>
<tr>
<td>14192</td>
<td>5 way PCB header right angle</td>
</tr>
</tbody>
</table>

#### Accessories
- Sealing caps to maintain IP68 rating when connectors are not in use
- PX0835 for cable connectors PX0840 & PX0841
- PX0733 for front panel mount connectors PX0842, PX0843 & PX0844
- PX0711 for rear panel mount connectors PX0848, PX0849 & PX0845

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0835</td>
<td>Sealing Cap for cable connectors (PX0840, PX0841)</td>
</tr>
<tr>
<td>PX0733</td>
<td>Sealing Cap for front panel mounting connector (PX0842, PX0843)</td>
</tr>
<tr>
<td>PX0711</td>
<td>Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)</td>
</tr>
</tbody>
</table>

#### USB Flash Drive Cover
- For use with USB Flash Drives
- Maintains IP68 rating when mated with panel connector
- For use with 'A' type connectors: PX0842, PX0843, PX0845, PX0848, PX0849 & PX0849
- Internal accommodation 17.5 x 14.0 x 83mm approx.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0852</td>
<td>For use with USB Flash Drives</td>
</tr>
</tbody>
</table>

#### Screening Can
- Maintains cable screening directly to panel
- Screening can clips around the panel fixing nut
- For use on PX0460/A and PX0460/B

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0465</td>
<td>Screening Can</td>
</tr>
</tbody>
</table>
### Cables & Connectors

**Mechanical**
- Sealing
  - IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k
  - 0°C to +70°C

**Operating temperature**
- IP69K, EN60529:1992+A2:2013 (10m depth for 2 weeks)

**Salt Mist**
- EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1

**Electrical**
- No. of Contacts: 4
- Current rating: 1A
- Voltage rating: 30V AC (RMS)
- Contact resistance: <10mΩ max.
- PCB pitch: 2.54mm

**Materials - Overmoulded**
- Overmould material: PVC (black)
- Flammability rating: UL94V-0

**Materials - Re-wireable and Panel Connectors**
- Shell material: Steel
- Shell plating: Nickel
- Contact material: Copper Alloy
- Contact plating: 30 micro inch Gold
- Connector body & locking ring: Glass Loaded Polyester
- Panel connector: Acetal
- Flammability rating: UL94 HB
- 'O' rings: Silicone
- Panel Gasket - round: Neoprene
- Panel Gasket - square: 1,000
- Mating cycles: Compliant
- RoHS: Compliant

**Materials - cable**
- Cable Jacket: PVC (black)
- Screen: Tinned copper braid
- Flammability: UL94V-0
- RoHS: Compliant

<table>
<thead>
<tr>
<th>Length</th>
<th>Dia</th>
<th>Conductors Signal</th>
<th>Conductors Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>2m</td>
<td>4.8mm</td>
<td>2 x 28AWG</td>
<td>2 x 24AWG</td>
</tr>
<tr>
<td>3m</td>
<td>5.0mm</td>
<td>2 x 28AWG</td>
<td>2 x 22AWG</td>
</tr>
<tr>
<td>5m</td>
<td>5.2mm</td>
<td>2 x 25AWG</td>
<td>2 x 20AWG</td>
</tr>
</tbody>
</table>

### PCB adaptor leads

**Electrical**
- No. of conductors: 4
- Current rating: 1A
- Voltage rating: 30V AC (RMS)
- Contact resistance: <10mΩ max.
- PCB pitch: 2.54mm

**Materials**
- Moulding: Polycarbonate
- Flammability: UL94 V-0
- Contact material: Copper Alloy
- Contact plating: 30 micro inch Gold
- Wire insulation: PVC (black)
- Flammability: UL94 V-0
- Conductors: 4 x 28AWG
- Operating temperature: 0°C to +70°C
- Mating cycles: 1,000
- RoHS: Compliant

### Cable construction - PX0840, PX0841

- PVC Jacket
- Braided:
  - Insulation: SR-PVC
  - Conductor: 2m - 28AWG, 3m - 28AWG, 5m - 25AWG
- Drain Wire:
  - Insulation: Polyolefin

### Contact Diagram - PX0843 & PX0849

<table>
<thead>
<tr>
<th>P1</th>
<th>PAIR</th>
<th>WIRE COLOUR</th>
<th>P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>+5V 1</td>
<td>RED</td>
<td>1 +5V</td>
<td></td>
</tr>
<tr>
<td>USB- 2</td>
<td>WHITE / BLUE</td>
<td>2 USB- 3</td>
<td></td>
</tr>
<tr>
<td>USB+ 3</td>
<td>2 USB+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GND 4</td>
<td>BLACK</td>
<td>4 GND</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>DRAIN &amp; BRAID</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>