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>
### Standard Buccaneer - USB

#### Front Panel Mounting Connector

**PX0842/A**
- IP68 A type USB, sealed at front of panel, standard B type at rear.

**PX0842/B**
- IP68 B type USB, sealed at front of panel, standard A type at rear.

### Part no. Description

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0842/A</td>
<td>IP68 A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.</td>
</tr>
<tr>
<td>PX0842/B</td>
<td>IP68 B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.</td>
</tr>
</tbody>
</table>

#### Front Panel Mounting Connector

**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.

### Part no. Description

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0843/A</td>
<td>IP68 A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear.</td>
</tr>
<tr>
<td>PX0843/B</td>
<td>IP68 B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.</td>
</tr>
<tr>
<td>PX0460/A</td>
<td>As PX0843/A with exposed braid for use with PX0465 screening can.</td>
</tr>
<tr>
<td>PX0460/B</td>
<td>As PX0843/B with exposed braid for use with PX0465 screening can.</td>
</tr>
</tbody>
</table>

#### Front Panel Mounting Connector

**PX0844/A**
- IP68 A type USB, sealed through panel, standard ‘A’ type at rear.

**PX0844/B**
- IP68 B type USB, sealed through panel, standard ‘B’ type at rear.

### Part no. Description

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PX0844/A/0M50/A</td>
<td>IP68 A type USB, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘A’ type at rear.</td>
</tr>
<tr>
<td>PX0844/A/0M50/B</td>
<td>IP68 A type USB, sealed through panel, Sealed ‘A’ type at front of panel, standard ‘B’ type at rear.</td>
</tr>
<tr>
<td>PX0844/B/0M50/A</td>
<td>IP68 B type USB, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘A’ type at rear.</td>
</tr>
<tr>
<td>PX0844/B/0M50/B</td>
<td>IP68 B type USB, sealed through panel, Sealed ‘B’ type at front of panel, standard ‘B’ type at rear.</td>
</tr>
</tbody>
</table>
Standard Buccaneer - USB

Rear Panel Mounting Connector

- PX0848/A - USB ‘A’ type IP68 connector
- PX0848/B - USB ‘B’ type IP68 connector
- Opposite connector to rear of panel
- Mates with PX0840 and PX0841 cable connectors

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

- PX0849/A - USB ‘A’ type IP68 connector
- PX0849/B - USB ‘B’ type IP68 connector
- Leaded with 5 way header
- Mates with PX0840 and PX0841 cable connectors

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

- PX0845/A - USB ‘A’ type IP68 connector
- PX0845/B - USB ‘B’ type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with PX0840 and PX0841 cable connectors

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
- 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>
### Specifications

#### Cables & Connectors

**Mechanical**
  - (10m depth for 2 weeks)
- IP69K, Tested in accordance with DIN 40050/Part 9 IP6k9k

**Operating temperature**
- 0°C to +70°C

**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: <10m Ω max.
- PCB pitch: 2.54mm

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

**Length:**
- 2m
- 3m
- 5m

#### PCB adaptor leads

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

**Materials**
- Moulding: Polycarbonate
- Flammability: UL94V-0
- Contact material: Copper Alloy
- Contact plating: 30 micro inch Gold
- Wire insulation: PVC (black)
- Flammability: UL94-V0
- Conductors: 4 x 28AWG
- Operating temperature: 0°C to +70°C
- Mating cycles: 1,000
- RoHS: Compliant

#### Cable construction - PX0840, PX0841

**PVC Jacket**

**Braid**

**Insulation**
- SR-PVC
- HD - PE

**Conductor**
- 2m: 24AWG
- 3m: 22AWG
- 5m: 20AWG

**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></td>
<td>RED</td>
<td>1 +5V</td>
</tr>
<tr>
<td>USB- 2</td>
<td></td>
<td>WHITE / BLUE</td>
<td>2 USB-</td>
</tr>
<tr>
<td>USB+ 3</td>
<td></td>
<td></td>
<td>3 USB+</td>
</tr>
<tr>
<td>GND 4</td>
<td></td>
<td>BLACK</td>
<td>4 GND</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>DRAIN &amp; BRAID</td>
<td>5</td>
</tr>
</tbody>
</table>