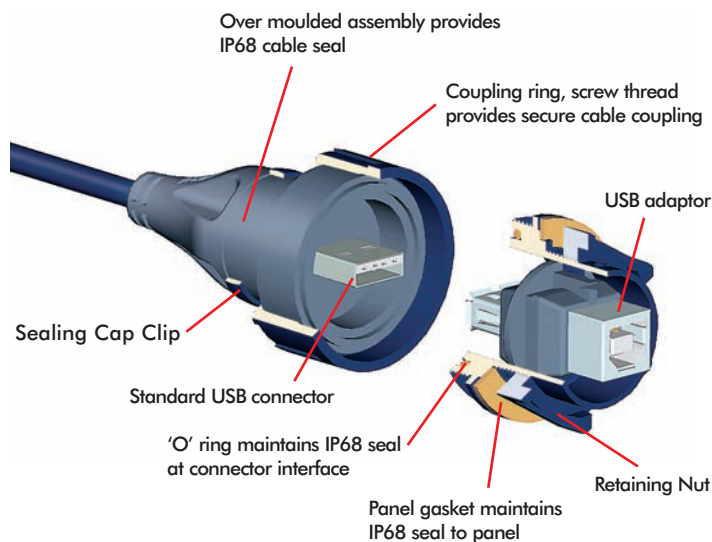


# USB Buccaneer®

IP68



- IP68 rated
- 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 pole 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

## USB Buccaneer®

## SEALED USB CABLES - SINGLE ENDED



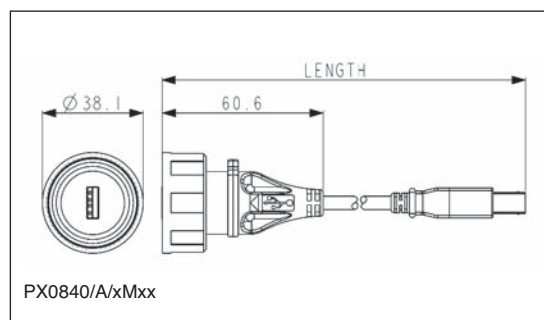
PX0840/A



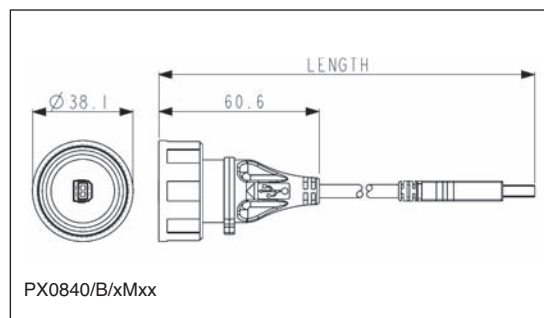
PX0840/B

## 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 and 5m lengths



PX0840/A/xMxx



PX0840/B/xMxx

| Part No.      | Length | Description                            |
|---------------|--------|----------------------------------------|
| PX0840/A/2M00 | 2m     | IP68 A type USB to standard B type USB |
| PX0840/A/3M00 | 3m     | IP68 A type USB to standard B type USB |
| PX0840/A/5M00 | 5m     | IP68 A type USB to standard B type USB |
| PX0840/B/2M00 | 2m     | IP68 B type USB to standard A type USB |
| PX0840/B/3M00 | 3m     | IP68 B type USB to standard A type USB |
| PX0840/B/5M00 | 5m     | IP68 B type USB to standard A type USB |

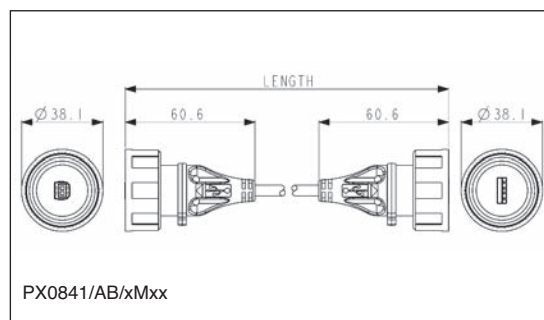
## SEALED USB CABLES - DOUBLE ENDED



PX0841/AB

## 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 and 5m lengths



PX0841/AB/xMxx

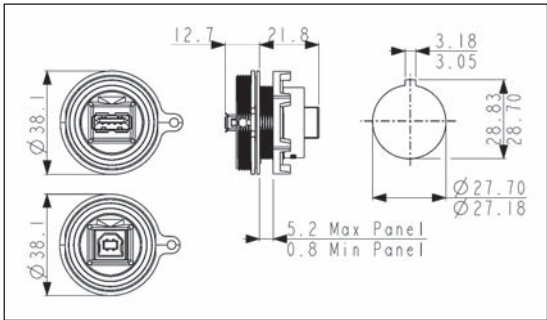
| Part No.       | Length | Description                        |
|----------------|--------|------------------------------------|
| PX0841/AB/2M00 | 2m     | IP68 A type USB to IP68 B type USB |
| PX0841/AB/3M00 | 3m     | IP68 A type USB to IP68 B type USB |
| PX0841/AB/5M00 | 5m     | IP68 A type USB to IP68 B type USB |

USB Buccaneer®

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

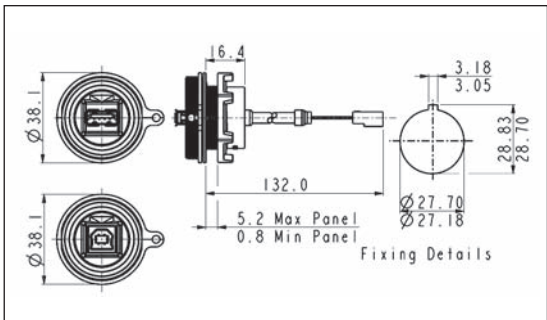


| Part No. | Description                                                                                     |
|----------|-------------------------------------------------------------------------------------------------|
| PX0842/A | IP68 A type USB, front panel mounted. Sealed A type at front of panel, 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

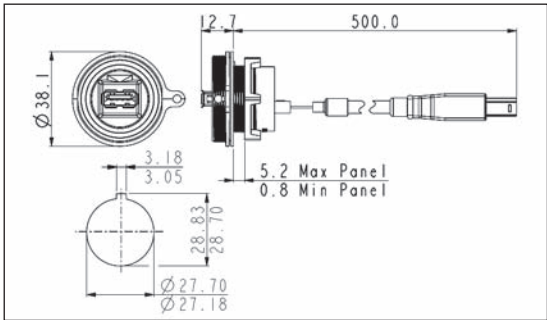


| Part No. | Description                                                                                           |
|----------|-------------------------------------------------------------------------------------------------------|
| PX0843/A | IP68 A type USB, front panel mounted. Sealed A type at 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



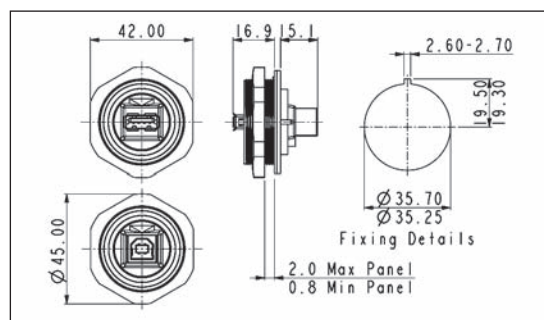
- IP68 Sealed through panel
- PX0844/A - USB 'A' type IP68 connector
- PX0844/B - USB 'B' type IP68 connector
- Standard USB interface plug options to rear of panel
- 500mm standard cable length, other lengths available
- Mates with PX0840 and PX0841



| Part No.        | Description                                                                                         |
|-----------------|-----------------------------------------------------------------------------------------------------|
| PX0844/A/OM50/A | IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear |
| PX0844/A/OM50/B | IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'B' type at rear |
| PX0844/B/OM50/A | IP68 B type USB, sealed through panel, Sealed 'B' type at front of panel, standard 'A' type at rear |
| PX0844/B/OM50/B | IP68 B type USB, sealed through panel, Sealed 'B' type at front of panel, standard 'B' type at rear |

**USB Buccaneer®**
**REAR PANEL MOUNTING CONNECTOR**

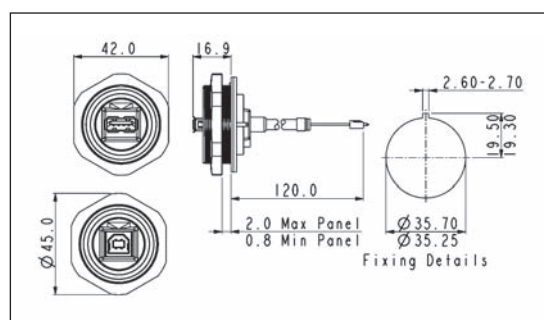

- PX0848/A - USB 'A' type IP68 connector
- PX0848/B - USB 'B' type IP68 connector
- Opposite connector to rear of panel
- Mates with PX0840 and PX0841 cable connectors



| 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**

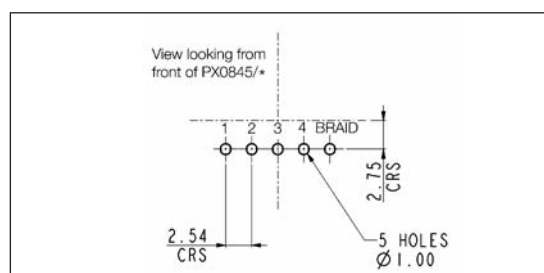
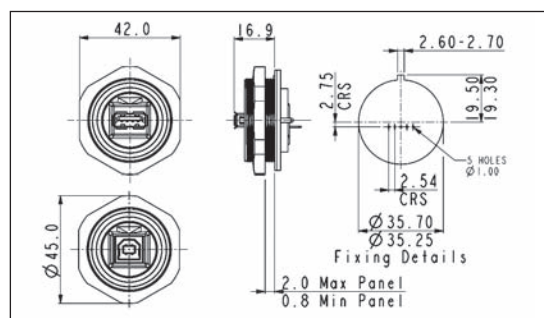

- PX0849/A - USB 'A' type IP68 connector
- PX0849/B - USB 'B' type IP68 connector
- Leaded with 5 way header
- Mates with PX0840 and PX0841 cable connectors



| 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. |

**REAR 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. |

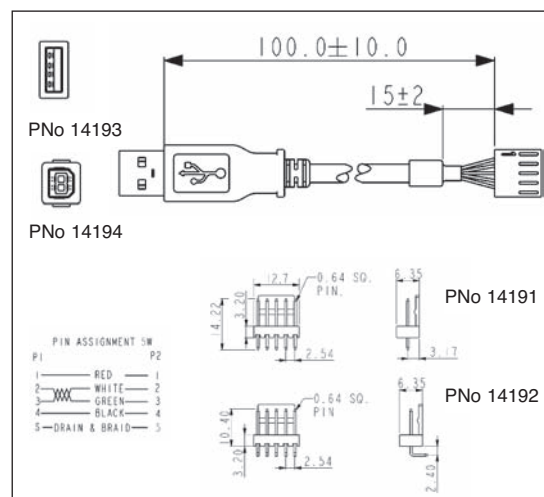
## USB Buccaneer®

### 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

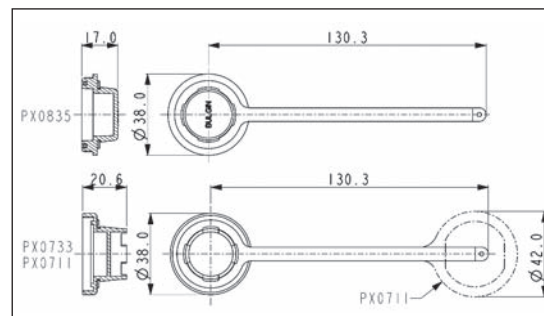
| Part No. | Description                           |
|----------|---------------------------------------|
| 14193    | USB 'A' type to 5 way crimp connector |
| 14194    | USB 'B' type to 5 way crimp connector |
| 14191    | 5 way PCB header straight             |
| 14192    | 5 way PCB header right angle          |



### 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

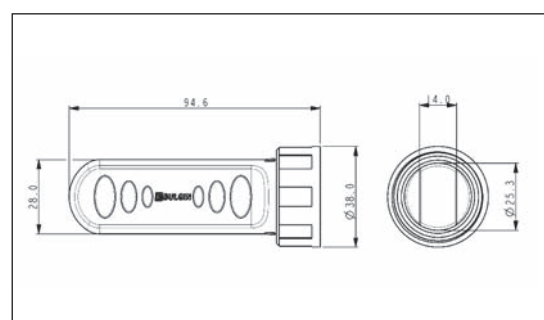


| Part No. | Description                                                            |
|----------|------------------------------------------------------------------------|
| PX0835   | Sealing Cap for cable connectors (PX0840, PX0841)                      |
| PX0733   | Sealing Cap for front panel mounting connector (PX0842, PX0843)        |
| PX0711   | Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845) |

### USB FLASH DRIVE COVER



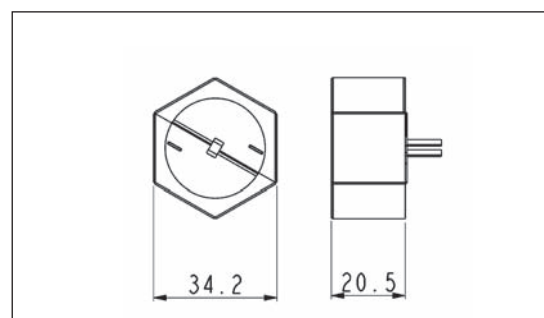
- For use with USB Flash Drives
- Maintains IP68 rating when mated with panel connector
- For use with 'A' type connectors: PX0842, PX0843, PX0845, PX0848 & PX0849
- Internal accommodation 17.5 x 14.0 x 83mm approx.



### SCREENING CAN



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



**SPECIFICATION**
**Cables & connectors**
**Mechanical**

|                       |               |
|-----------------------|---------------|
| Sealing               | IP68, EN60529 |
| Operating temperature | 0°C to +70°C  |

**Electrical**

|                    |                 |
|--------------------|-----------------|
| No. of poles       | 4               |
| Current rating     | 1A              |
| Voltage rating     | 30Vac (RMS)     |
| Contact resistance | 30mΩ max.       |
| Performance        | USB version 2.0 |

**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 | Polyester          |
| Panel connector               | Nylon 6            |
| Flammability rating           | UL94V-0            |
| 'O' rings                     | Silicon            |
| Panel Gasket - round          | Silicon            |
| Panel Gasket - square         | Neoprene           |
| Mating cycles                 | 1,000              |
| <b>RoHS</b>                   | Compliant          |

**Materials - cable**

|              |                     |
|--------------|---------------------|
| Cable Jacket | PVC (black)         |
| Screen       | Tinned copper braid |
| Flammability | UL94V-0             |
| <b>RoHS</b>  | Compliant           |

| Length: | Dia   | Conductors<br>Signal | Conductors<br>Power |
|---------|-------|----------------------|---------------------|
| 2m      | 4.8mm | 2 x 28AWG            | 2 x 24AWG           |
| 3m      | 5.0mm | 2 x 28AWG            | 2 x 22AWG           |
| 5m      | 5.2mm | 2 x 25AWG            | 2 x 20AWG           |

**PCB adaptor leads**
**Electrical**

|                    |             |
|--------------------|-------------|
| No. of conductors  | 4           |
| Current rating     | 1A          |
| Voltage rating     | 30Vac (RMS) |
| Contact resistance | <10mΩ 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          | UL94V-0            |
| Conductors            | 4 x 28AWG          |
| Operating temperature | 0°C to +70°C       |
| Mating cycles         | 1,000              |
| <b>RoHS</b>           | Compliant          |

**Cable construction - PX0840, PX0841**
