Standard Buccaneer - USB

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- 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

Standard Buccaneer - USB

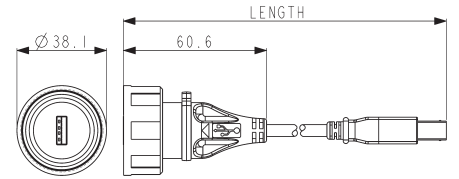**bulgin**

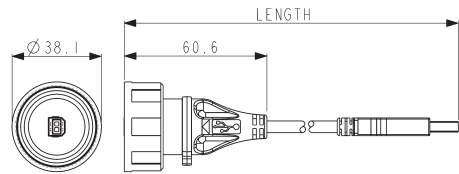## Sealed USB Cables - Single Ended

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 & 5m lengths

Ø 38.1   LENGTH   60.6

PX0840/A/xMxx

Ø 38.1   LENGTH   60.6

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 & 5m lengths

Ø 38.1   LENGTH   60.6   60.6   Ø 38.1
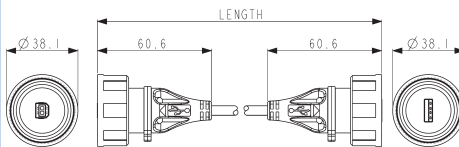
PX0841/AB/xMxx

| 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

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
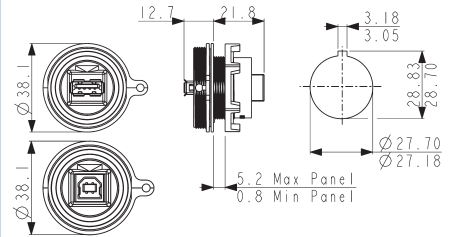
PX0842/A   PX0842/B

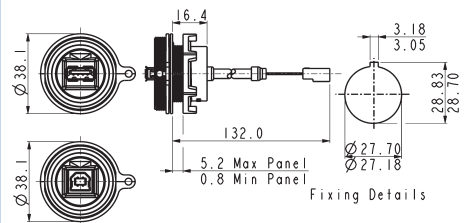| Part no.	Description
PX0842/A	IP68 A type USB, front panel mounted. Sealed A type at front of panel, standard B type at rear
PX0842/B	IP68 B type USB, front panel mounted. Sealed B type at front of panel, standard A type at rear.

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

PX0843/A   PX0843/B

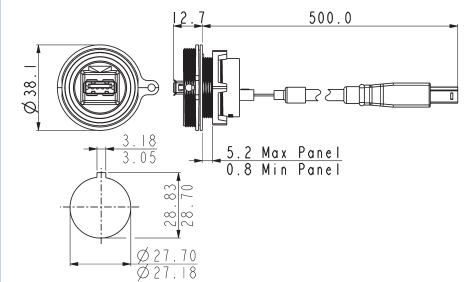| Part no.	Description
PX0843/A	IP68 A type USB, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PX0843/B	IP68 B type USB, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
PX0460/A	As PX0843/A with exposed braid for use with PX0465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

PX0844/A   PX0844/B

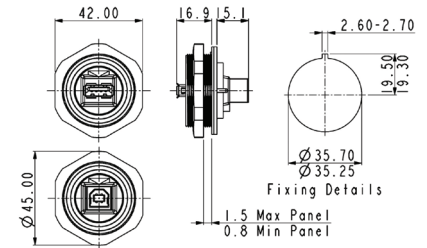| Part no.	Description
PX0844/A/0M50/A	IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear
PX0844/A/0M50/B	IP68 A type USB, sealed through panel, Sealed 'A' type at front of panel, standard 'B' type at rear
PX0844/B/0M50/A	IP68 B type USB, sealed through 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

- 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

PX0848/A   PX0848/B

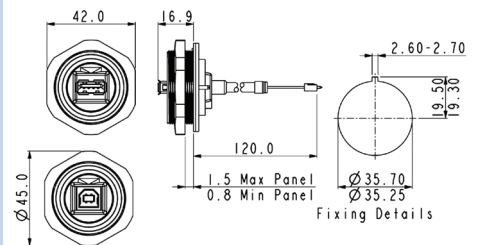| Part no.	Description
PX0848/A	IP68 A type USB, rear panel mounted. Sealed A type at front of panel, standard B type at rear.
PX0848/B	IP68 B type USB, rear panel mounted. Sealed B type at front of panel, standard A type at rear.

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

PX0849/A   PX0849/B

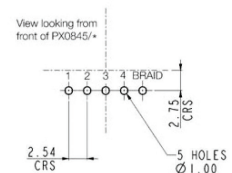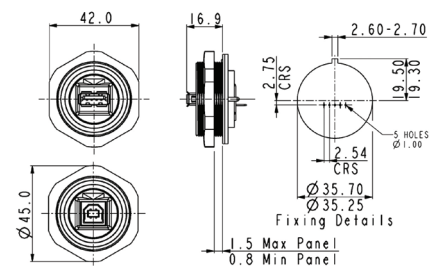| Part no.	Description
PX0849/A	IP68 A type USB, rear panel mounted. Sealed A type at front of panel, 5 way header at rear.
PX0849/B	IP68 B type USB, rear panel mounted. Sealed B type at front of panel, 5 way header at rear.

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

PX0845/A   PX0845/B

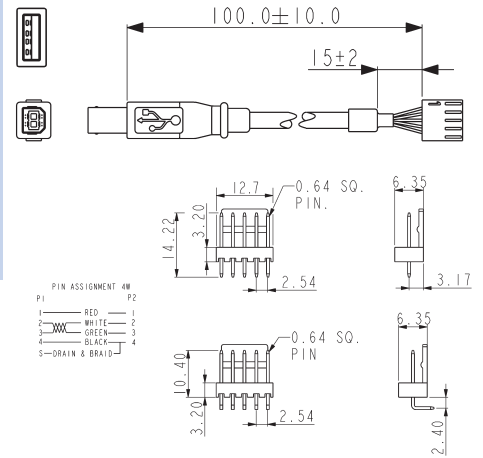| Part no.	Description
PX0845/A	IP68 A type USB, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear.
PX0845/B	IP68 B type USB, rear panel mounted. Sealed B type at front of panel, direct mount PCB contacts at rear.

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
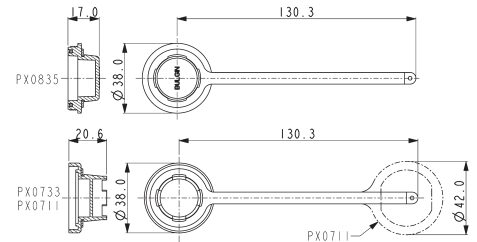
Part no.	Description
PX0835	Sealing Cap for cable connectors (PX0840, PX0841)
PX0733	Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

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
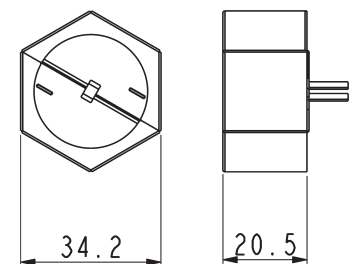○ Internal accommodation 17.5 x 14.0 x 83mm approx.

PX0852
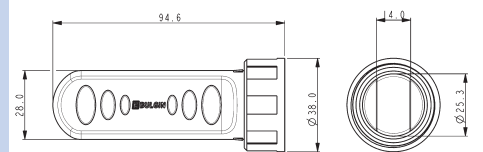
Screening Can

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

PX0465

Standard Buccaneer - USB
Specifications

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Cables & connectors

Mechanical
Sealing	IP68, EN60529:1992+A2:2013 (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	30m Ω 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	Glass Loaded Polyester
Panel connector	Acetal
Flammability rating	UL94 HB
'O' rings	Silicone
Panel Gasket - round	Silicone
Panel Gasket - square	Neoprene
Mating cycles	1,000
RoHS	Compliant

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

Length:	Dia	Conductors Signal	Conductors 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	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
Conductor
2m - 24AWG
3m - 22AWG
5m - 20AWG
Drain Wire
Insulation - Polyofein

Insulation HD - PE
Conductor
2m - 28AWG
3m - 28AWG
5m - 25AWG
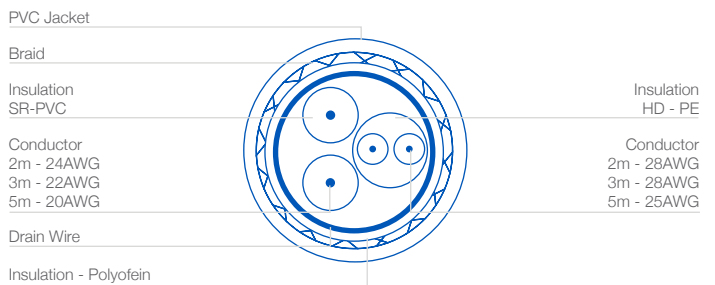
Contact Diagram - PX0843 & PX0849

P1	PAIR	WIRE COLOUR	P2
+5V 1	——	RED	1 +5V
USB- 2 USB+ 3	⬦⬦	WHITE / BLUE	2 USB- 3 USB+
GND 4	——	BLACK	4 GND
5	——	DRAIN & BRAID	5

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