



- ⬡ IP68 when mated, tested in accordance with EN60529:1992+A2:2013
- ⬡ IP69K when mated, tested in accordance with DIN 40050/Part 9 IP6k9k
- ⬡ EN60068-2-52 Test Kb Salt Mist (Cyclic) Marine Severity Level 1
- ⬡ USB version 2.0 and 3.0 performance
- ⬡ Shielded system
- ⬡ Single and double ended cables
- ⬡ Screw coupling
- ⬡ PCB mounted panel connector
- ⬡ High-speed bus connection, USB 2.0: up to 480Mbps
USB 3.0: up to 5Gbps
- ⬡ Hot pluggable, USB 2.0 with 4 contact interface, USB 3.0 with 9 contact 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
- ⬡ Plug and play capability

Sealed USB Cables - Single Ended



PX0840/A

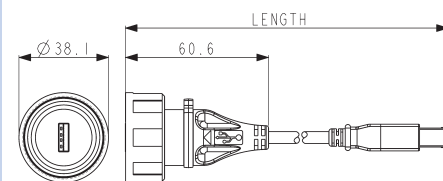


PX0840/B

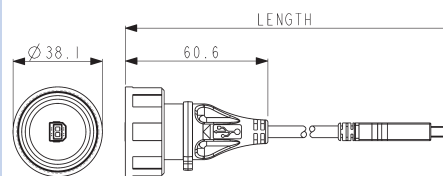


PX0840/AA

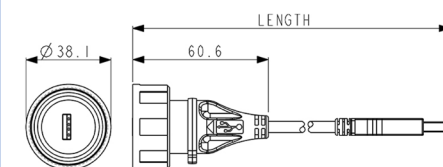
- Single ended sealed cable assembly
- IP68 'A' type USB 2.0 connector to standard 'A' or 'B' type USB 2.0 connector
- IP68 'B' type USB 2.0 connector to standard 'A' type USB 2.0 connector
- IP68 'A' type USB 3.0 connector to standard USB 3.0 'A' type connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 3m lengths



PX0840/A/xMxx



PX0840/B/xMxx



PX0840/AA/xMxx

Part no.	Length	Description
PX0840/A/2M00	2m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/3M00	3m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/A/5M00	5m	IP68 A type USB 2.0 to standard B type USB 2.0
PX0840/B/2M00	2m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/3M00	3m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/B/5M00	5m	IP68 B type USB 2.0 to standard A type USB 2.0
PX0840/AA/2M00	2m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/3M00	3m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/AA/5M00	5m	IP68 A type USB 2.0 to standard A type USB 2.0
PX0840/A3/1M00	1m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/2M00	2m	IP68 A type USB 3.0 to standard A type USB 3.0
PX0840/A3/3M00	3m	IP68 A type USB 3.0 to standard A type USB 3.0

Sealed USB Cables Double Ended

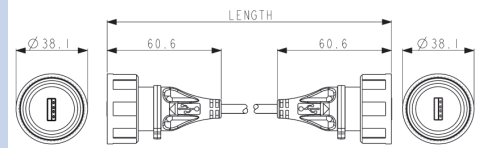


PX0841/AA

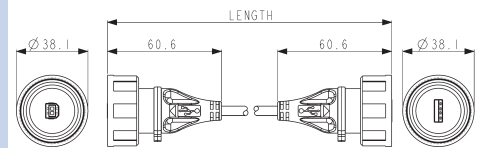


PX0841/AB

- Double ended sealed cable assembly
- IP68 'A' type USB 2.0 connector to IP68 'A' or 'B' type USB 2.0 connector
- IP68 'A' type USB 3.0 connector to IP68 'A' type USB 3.0 connector
- Mates with all panel mount connectors
- USB 2.0 variants available in 2m, 3m & 5m lengths
- USB 3.0 variants available in 1m, 2m & 5m lengths



PX0841/AA/xMxx



PX0841/AB/xMxx

Part no.	Length	Description
PX0841/AB/2M00	2m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/3M00	3m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AB/5M00	5m	IP68 A type USB 2.0 to IP68 B type USB 2.0
PX0841/AA/2M00	2m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/3M00	3m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/AA/5M00	5m	IP68 A type USB 2.0 to IP68 A type USB 2.0
PX0841/A3/1M00	1m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/2M00	2m	IP68 A type USB 3.0 to IP68 A type USB 3.0
PX0841/A3/3M00	3m	IP68 A type USB 3.0 to IP68 A type USB 3.0

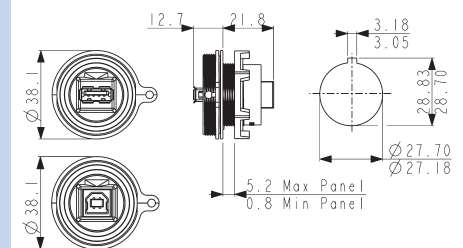
Front Panel Mounting Connector



PX0842/A

PX0842/B

- PX0842/A – USB 2.0 'A' type IP68 to USB 2.0 'B' type connector
- PX0842/AA – USB 2.0 'A' type IP68 to USB 2.0 'A' type connector
- PX0842/A3 – USB 3.0 'A' type IP68 to USB 3.0 'A' type connector
- PX0842/B – USB 2.0 'B' type IP68 to USB 2.0 'A' type connector
- Mates with PX0840 and PX0841 cable connectors



Part no.	Description
PX0842/A	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard B type at rear
PX0842/B	IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, standard A type at rear
PX0842/AA	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, standard A type at rear
PX0842/A3	IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, standard A type at rear

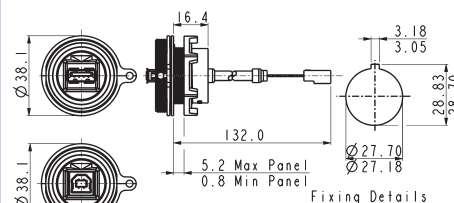
Front Panel Mounting Connector



PX0843/B

PX0843/A

- PX0843/A – USB 2.0 'A' type IP68 connector with 5-way crimp connector
- PX0843/B – USB 2.0 'B' type IP68 connector with 5-way crimp connector
- PX0843/A3 – USB 3.0 'A' type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no.

Description

PX0843/A	IP68 A type USB 2.0, front panel mounted. Sealed A type at front of panel, 5 way crimp connector at rear.
PX0843/B	IP68 B type USB 2.0, front panel mounted. Sealed B type at front of panel, 5 way crimp connector at rear.
PX0843/A3	IP68 A type USB 3.0, front panel mounted. Sealed A type at front of panel, 10-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
PX0460/A3	As PX0843/A3 with exposed braid for use with PX0465 screening can

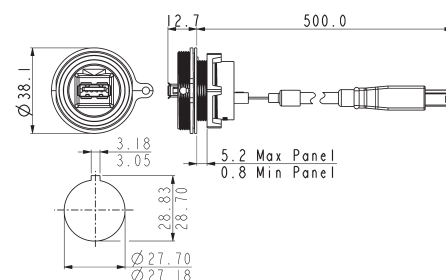
Front Panel Mounting Connector



PX0844/B

PX0844/A

- IP68 Sealed through panel
- PX0844/A – USB 2.0 'A' type IP68 connector
- PX0844/B – USB 2.0 'B' type IP68 connector
- PX0844/A3 – USB 3.0 'A' type IP68 connector
- Standard USB interface plug options to rear of panel
- 0.5m standard cable length, other lengths available
- Mates with PX0840 and PX0841 cable connectors



Part no.

Length

Description

PX0844/A/0M50/A	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear
PX0844/A/0M50/B	0.5m	IP68 A type USB 2.0, sealed through panel, Sealed 'A' type at front of panel, standard 'B' type at rear
PX0844/B/0M50/A	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed 'B' type at front of panel, standard 'A' type at rear
PX0844/B/0M50/B	0.5m	IP68 B type USB 2.0, sealed through panel, Sealed 'B' type at front of panel, standard 'B' type at rear
PX0844/A3/0M50/A3	0.5m	IP68 B type USB 3.0, sealed through panel, Sealed 'A' type at front of panel, standard 'A' type at rear

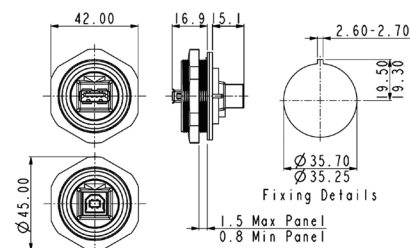
Rear Panel Mounting Connector



PX0848/B

PX0848/A

- PX0848/A – USB 2.0 'A' type IP68 to USB 2.0 'B' type connector
- PX0848/B – USB 2.0 'B' type IP68 to USB 2.0 'A' type connector
- PX0848/A3 – USB 3.0 'A' type IP68 to USB 3.0 'A' type connector
- Mates with PX0840 and PX0841 cable connectors



Part no. Description

PX0848/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard B type at rear
PX0848/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, standard A type at rear
PX0848/AA	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear
PX0848/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, standard A type at rear

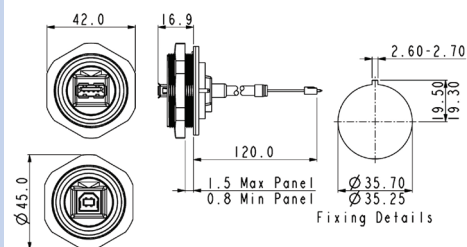
Rear Panel Mounting Connector



PX0849/B

PX0849/A

- PX0849/A - USB 2.0 'A' type IP68 connector with 5-way crimp connector
- PX0849/B - USB 2.0 'B' type IP68 connector with 5-way crimp connector
- PX0849/A3 - USB 3.0 'B' type IP68 connector with 10-way crimp connector
- Mates with PX0840 and PX0841 cable connectors



Part no. Description

PX0849/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, 5-way header at rear
PX0849/B	IP68 B type USB 2.0, rear panel mounted. Sealed B type at front of panel, 5-way header at rear
PX0849/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, 10-way header at rear

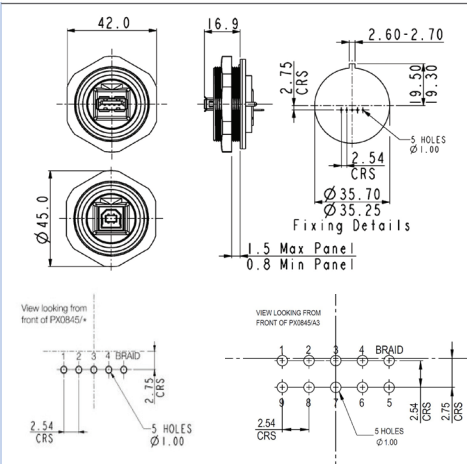
PCB Panel Mounting Connector- PCB Direct Mount



PX0845/B

PX0845/A

- PX0845/A – USB 2.0 'A' type IP68 connector
- PX0845/B – USB 2.0 'B' type IP68 connector
- PX0845/A3 – USB 3.0 'A' type IP68 connector
- PCB contacts at rear
- Direct PCB mount
- Mates with PX0840 and PX0841 cable connectors



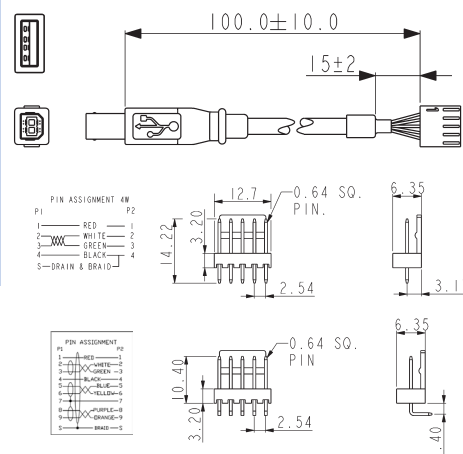
Part no. Description

PX0845/A	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/B	IP68 A type USB 2.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear
PX0845/A3	IP68 A type USB 3.0, rear panel mounted. Sealed A type at front of panel, direct mount PCB contacts at rear

PCB Adaptor Leads



- Standard A and B type USB 2.0 connectors to 5-way crimp adaptor leads
- 5 way-headers, 2.54mm pitch, horizontal or vertical mounting
- Standard A type USB 3.0 to 10-way crimp adaptor leads



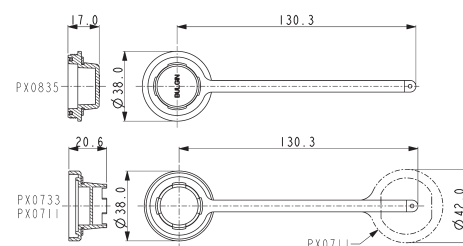
Part no. Description

14193	USB 2.0 'A' type to 5-way crimp connector
14194	USB 2.0 'B' type to 5-way crimp connector
100286	USB 3.0 'A' type to 10-way crimp connector
14191	5-way PCB header straight
14192	5-way PCB header right angle
100287	10-way PCB header straight
100288	10-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

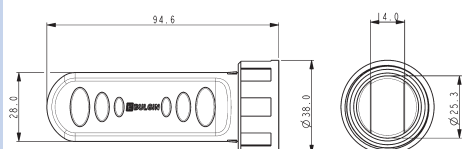
PX0835	Sealing Cap for cable connectors (PX0840, PX0841)
PX0733	Sealing Cap for front panel mounting connector (PX0842, PX0843 & PX0844)
PX0711	Sealing Cap for rear panel mounting connector (PX0848, PX0849, PX0845)

USB Flash Drive Cover



PX0852

- 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.

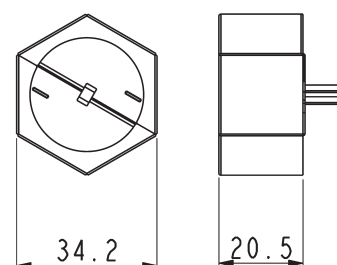


Screening Can



PX0465

- Maintains cable screening directly to panel
- Screening can clips around the panel fixing nut
- For use on PX0460/A, PX0460/B and PX0360/A3





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

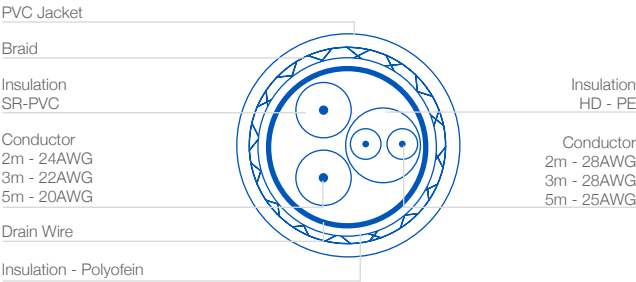
Cable Jacket	PVC (black)
Screen	Tinned copper braid
Flammability	UL94V-0
RoHS	Compliant

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

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)
Conductors	4 x 28AWG
Operating temperature	0°C to +70°C
Mating cycles	1,000
RoHS	Compliant

USB 2.0 Cable construction - PX0840, PX0841



USB 2.0 Contact Diagram - PX0843 & PX0849

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



Cables & connectors

Table with 2 columns: Property and Specification. Rows include Mechanical (Sealing, Operating temperature, Salt Mist), Electrical (No. of Contacts, Current rating, Voltage rating, Contact resistance, Performance), and Materials - Overmoulded (Overmould material, Flammability rating).

Materials - Overmoulded

Table with 2 columns: Property and Specification. Rows include Overmould material (PVC (black)) and Flammability rating (UL94V-0).

Materials - Re-wireable and Panel Connectors

Table with 2 columns: Property and Specification. Rows include Shell material, Shell plating, Contact material, Contact plating, Connector body & locking ring, Panel connector, Flammability rating, 'O' rings, Panel Gasket - round, Panel Gasket - square, Mating cycles, and RoHS.

Materials - cable

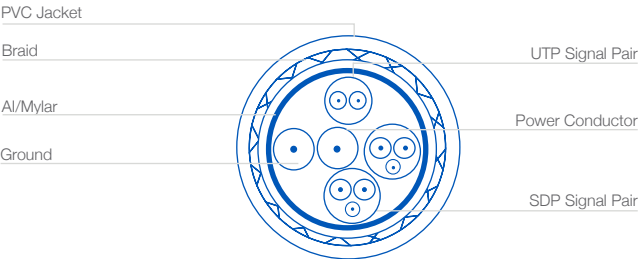
Table with 2 columns: Property and Specification. Rows include Cable Jacket, Screen, Flammability, and RoHS.

Table with 4 columns: Length, Dia, Conductors, and Power. Rows show specifications for 1m, 2m, and 3m lengths.

PCB adaptor leads

Table with 2 columns: Property and Specification. Rows include Electrical (No. of conductors, Current rating, Voltage rating, Contact resistance, PCB pitch) and Materials (Moulding, Flammability, Contact material, Contact plating, Wire insulation, Flammability, Conductors, Operating temperature, Mating cycles, and RoHS).

USB 3.0 Cable construction - PX0840/A3, PX0841/A3



USB 3.0 Contact Diagram - PX0843/A3 & PX0849/A3

Table mapping P1, PAIR, WIRE COLOUR, and P2 for various USB 3.0 contacts including +5V, USB-2, USB+, GND, SSTX, SSRX, and BRAID.