

Industry Application Report

September 2021



Aeronautical Test Bench.

Aeronautical Test Benches are used in engineering and manufacture for verification purposes. The work applied to these benches is for validation, correction and testing of sensors and transducers.

These elements are critical for the design, development, and optimisation of MRO (Maintenance Repair Operations) tasks - key steps in the manufacturing process of an aircraft. Bulgin's Ethernet Buccaneer is used for RS485 communication and data transmission in test equipment within the Aeronautical industry.

- ⬡ Potential Markets: Automotive / Industrial
- ⬡ Standard Series Ethernet is Water & Dustproof to IP68 when mated with compatible connector
- ⬡ CAT5e or Cat6a Shielded Coupler - Standard RJ45 Patchcord can be plugged into rear



Products Related To This Industry:



PX0833 / PX0893

Standard Series Ethernet

Front Panel Mounting Connector. Water and dustproof to IP68 when mated with compatible connector. Single hole fixing. Supplied with panel sealing gasket. CAT5e or Cat6a shielded coupler - standard RJ45 patchcord can be plugged into rear. PX0833/E or PX0893/E version has additional Earth wire.



PX0839

Standard Series Ethernet

Rear Panel Mount Connector. Water and dustproof to IP68 when mated with compatible connector. CAT5e shielded socket. Supplied with panel sealing gasket. Choice of Termination. Mates with PX0834, PX0836, PX0837, PX0838 Standard Series Flex Cable Connectors.



PX0834 / PX0894

Standard Series Ethernet

Rewireable Flex Cable Connector. Water and dustproof to IP68 when mated with compatible connector. Supplied with shielded RJ45 plug. PX0834/A & PX0894/A has Cable Glands optimised for PUR jacket cable to maintain CAT5e & Cat6a performance. PX0834/B & PX0894/B can be used with cable 3.5mm-8mm diameter.



PX0870 / PX0890

Standard Series Ethernet

Flanged Mounting Connector. Water and dustproof to IP68 when mated with compatible connector. Supplied with panel sealing gasket and screw sealing washers. CAT5e or Cat6a shielded coupler - standard RJ45 patchcord can be plugged into rear. PX0870/E version has additional Earth wire.

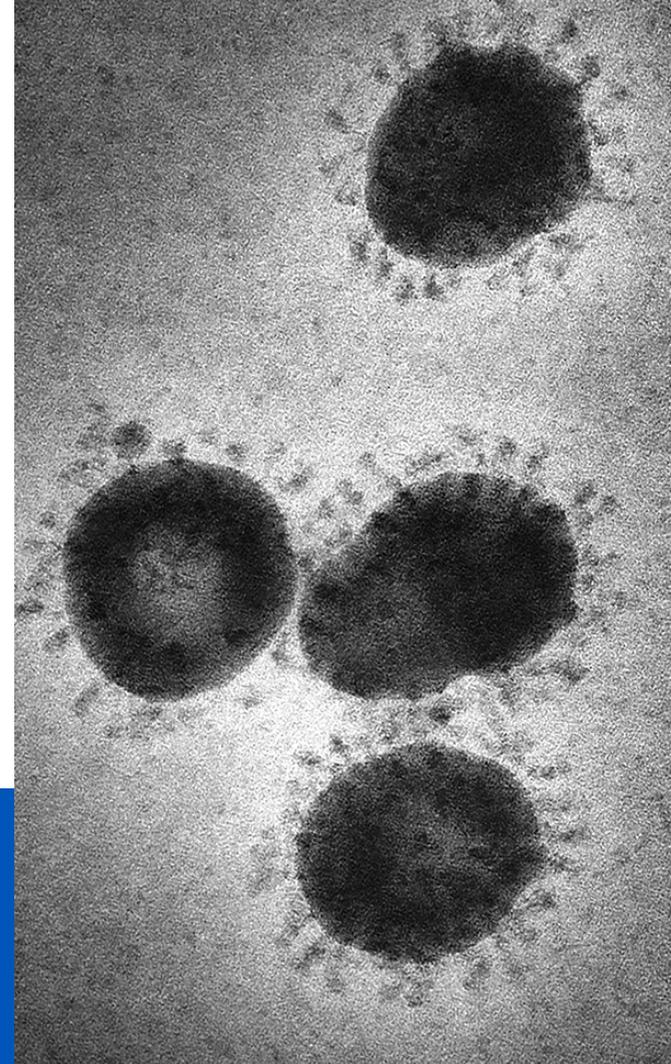


Coulter Counter.

Coulter Counters are quality control instruments that can be calibrated to count cells in milk or blood samples and detect viruses and bacteria. Coulter Counter applications are primarily used in the Medical and Research Industry as they provide rapid and reliable cell counting readings. Other industries use this device to analyse elements, minerals or pigments.

The Bulgin Rocker Switches are used to activate the machine.

- ⬡ Potential Markets: Healthcare / Pharmaceutical
- ⬡ Choice of Switching Circuits including 3 position along with choice of Panel Cut Outs
- ⬡ Push-on, Solder & PCB Terminals options available



Products Related To This Industry:



Double Pole Range

Rocker Switches

Range of Double Pole and 3 Position Selective Rocker Switches. Standard (1550 Series), high inrush tolerant (1350 Series), 3 position selective (1484, 1487 Series) and Indicator Only version (0480 Series). Splash resistant rocker versions available.



8800 Series

Rocker Switches

Range of ultra thin Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole. Curved rocker. Choice of: Termination: 4.8 x 0.8 QC, Solder Tag, PCB mount. Body colour: Black, Red, White. Plus other options available.



Minature Range

Rocker Switches

Extensive range of miniature Rocker Switches and matching Indicators. ENEC, UL, CSA approved (approvals and ratings can vary with function. Industry standard panel cut-out. Single Pole (8500, 8503 Series), Double Pole (8550, 8553 Series) and matching Indicator Only (8580 Series) versions all in same body size



1250SP / 1250 Series

Rocker Switches

Rocker Switches. ENEC, UL, CSA approved (approvals and ratings can vary with function - see technical data for details). Single Pole (1250SP Series) and Double Pole (1250 Series) in same body size. High inrush tolerance.



Noise Monitoring Terminal.

Noise Monitoring Terminals are devices designed to measure the level of sound produced in a defined space, detecting excessiveness, then transferring this data via cabled or wireless connection to a computer to be evaluated and analysed.

They work by calculating the pressure of sound waves that exist in the air. Our 6000 Series Connector is used on noise monitoring terminals to measure sound and vibration levels from traffic.

- ⬡ Potential Markets: Airports / Industrial / Railways
- ⬡ Water & dustproof to IP66, IP68, IP69K when mated with compatible connector, as well as 30 degree push twist locking, tamperproof lock prevents accidental un-mating



Products Related To This Industry:



PXP6010 / PXM6010

6000 Series Buccaneer

Flex Cable Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



PXP6012 / PXM6012

6000 Series Buccaneer

Front Panel Mount Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



PXP6011 / PXM6011

6000 Series Buccaneer

Flex In-Line Cable Connectors. Water and dustproof to IP66, IP68, IP69K when mated with compatible connector. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole versions.



PXP7010 / PXM7010

7000 Series Buccaneer

Water and dustproof to IP66, IP68, IP69K when mated. 30 degree push twist locking, tamperproof lock prevents accidental un-mating. Plug or Socket. 2, 3, 8, 16, 22 Pole with leading Earth contact on 3 Pole. Choice of body material depending on part code: Plastic body (part codes prefixed PXP). Metal body (part codes prefixed PXM).



Ultrasonic Pulsar Receiver Unit.

The Ultrasonic Pulsar Receivers Units are used in ultrasonic instruments to inspect materials, detect flaws to an ultrasonic level, and avoid the material's destruction for analysis. The units work under the basic principle of PE (Pulse Echo). The application of UPR is mainly used for industrial research and builds of prototypes and manufacturing processes.

The 400 Series Mini USB Buccaneer is the ideal connector for compact ultrasonic pulser, receiver and digitising platforms which are used in a variety of inspection, testing and monitoring applications.

- ⬡ Potential Markets: Medical / Data & Telecoms
- ⬡ IP68 rated with IP69K tested in accordance with DIN. USB V2.0 performance with Plug and Play capability, shielded systems and overmoulded cables



Products Related To This Industry:



PX0457 / PX0458

400 Series Mini USB

Rear Panel Mount Mini USB Type AB Socket. Water and dustproof to IP68 when mated with compatible connector. Choice of Terminations depending on part code: PX0457 leaded, terminating in a 6 way header. PX0458 direct PCB Mount. PX0484 Sealing Cap available separately. Mate with PX0441, PX0442, PX0444 Cables.



PX0443 / PX0459

400 Series Mini USB

Front Panel Mount Leaded Mini USB Type B Socket. Water and dustproof to IP68 when mated. PX0443 has a 108mm lead terminating in a 5 way crimp connector for use with PC header (available separately). PX0459 is identical to PX0443 but with exposed braid for use with PX0464 screening can (available separately). Mate with PX0441, PX0442 Cables.



PX0456

400 Series Mini USB

Front Panel Mount Leaded Mini USB Type B Socket. Water and dustproof to IP68 when mated with compatible connector. 108mm lead terminating in a 6 way crimp connector for use with PCB header (available separately, part code 14563, 14564). PX0480 Sealing Cap available separately. Mate with PX0441, PX0442, PX0444 Cables.



PX0441 / 442 / 444

400 Series Mini USB

Pre-Wired Fully Overmoulded USB V2.0 Cable. Water and dustproof to IP68 when mated with compatible connector. Choice of: Standard USB Type A plug to Sealed Mini USB Type B plug (part codes prefixed PX0441). Mini USB Type A plug to Sealed Mini USB Type B plug (part codes prefixed PX0442). Mini USB Type B plug to Sealed Mini USB Type A plug (part codes prefixed PX0444).



Amplifiers.

The amplifiers are electronic devices used to boost the power and amplitude of the signals. Thus, the amplifier takes the low voltage of equipment, increasing the gain and amplifying the signal. Amplifiers can be categorised by frequency or by their signal chain. Applications for amplifiers include: linear, non-linear, servo amplifier, wideband, RF and audio amplifier.

Due to their suitability for most mains powered applications, our IEC Connectors are designed into amplifiers which increase the power of a signal in electrical equipment.

- ⬡ Potential Markets: Wireless Communications / Audio Equipment / Broadcasting
- ⬡ A full range of quality mains rated inlets, outlets and connectors conforming to IEC and EN 60320 specifications carrying UL, CSA, VDE and other approvals.



Products Related To This Industry:



PF0030 Series

IEC Connectors

Flange Mount Twin Fused IEC Inlets. EN60 320-1 Standard Sheet C14 Class I. Cold Condition. Twin Fused, 5mm x 20mm fuses. Choice of Termination depending on part code. /28 - 2.8mm Solder Tag, /48 - 4.8mm Tab, /PC - PCB Spills. Insulation Boot for rear of connector available separately. Retaining Clip KT0009 available separately. Mate with PX0587, PX0587/SE, PX0588



PX0590 Series

IEC Connectors

Flange Mount IEC Inlets. EN60 320-1 Standard Sheet C15 and C16 Class I. Hot Condition. Choice of Termination depending on part code: /28 - 2.8mm Solder Tag, /63 - 6.3mm Tab. Choice of colour depending on part code. Insulation Boot for rear of connector available separately. Retaining Clip KT0006 available separately. Mate with PX0597.



PX0675 Series

IEC Connectors

Flange Mount IEC Outlets. EN60 320-2-2 Standard Sheet F Class I. Choice of Termination depending on part code: /28 - 2.8mm Solder Tag, /48 - 4.8mm Tab, /63 - 6.3mm Tab, /PC - PCB Spills. Choice of colour depending on part code. PCB Mount version (part codes containing /PC) available with rear cover. Retaining Clip KT0006 available separately.



PX0597 Series

IEC Connectors

Straight Female IEC Connectors. EN60 320-1 Standard Sheet C15 and C16 Class I. Hot Condition. Cable Mount Screw Terminals (rewireable). Choice of colour, depending on part code suffix: /WH - White, /GY - Grey, no suffix - Black (some approvals apply to specific colours only - see data for details). Mate with PX0590, PX0595.





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