

Welcome to the Conec Connector system for Harsh Environments. Conec is a world-class manufacturer offering one of the broadest lines of high reliable water-sealed products. Our many years of engineering excellence provide harsh environment solutions for many industries.



Outside the usual 'office' environment, there are many industrial electronics products that require a robust, sealed connector system, to protect it from the expected process liquids, or from accidental soakings.



Since the environment can cause an infinite number of water hazards, the industry rates Degree of Protection on a scale, and Conec Sealed D-subs are rated as IP67. That is a very tough environment for electronic devices, and only continuous submersion could be worse, and fortunately, unlikely for the target market. The industry agreed-upon test is immersion in water for 30 minutes, at a depth of 1 meter, with no air/water leakage.



Complicated explanations aside, Conec Sealed D-subs can be used for electronic applications that might get left outside, accidentally, or intentionally; on portable equipment that might get dropped in a puddle; on vehicular equipment that will be rained on or hosed down. Conec Sealed D-subs can likely be used on 90% of the 'wet' applications, the 10% balance requiring much more expensive technology solutions.



While there can be many Indoor applications that involve the presence of liquids for washing or cooling, you will also realize that there are many Outdoor electronics applications that can use Conec Sealed D-subs. As you see from the list, it is very diverse. Until now, most designers didn't know a Sealed D-sub existed and often used much more expensive MIL class connectors. Now they have a choice that is cost effective for commercial/industrial applications.



While the original intention was to prevent Water Ingress, these connectors also seal out many other fluids such as automotive liquids, and cleaning solutions as might be used in food processing. Replacing the common steel shells, Conec uses brass components, and for really harsh environments, stainless steel shells. Since Conec can seal just about any D-sub, regardless of size, contact density, or termination, this is the broadest line of Sealed D-subs anywhere.



Conec Sealed D-subs are not just a standard connector with 'sealant' added as an afterthought. This is an engineered product, providing the user with a ready-to-install connector, which : a) seals the connector-to-panel joint, b) seals connector-to-connector when mated to make it electrically functional even when wet, not just a protection for the box contents, and c) seals the path thru the connector in the event of liquid exposure when not mated.



The basis of this product, is a high end industrial connector, featuring machined contacts with 30 microinches of gold plating. Add to that the Conec sealing methods and corrosion resistant components, available in all the common configurations of standard connectors, and you end up with a UL / CSA certified product for the harshest environments of your commercial design.





Introduced in 2009, Conec now has several years 'in the field' experience with the 'Solid-Body' design. It uses a zinc diecast body, eliminating several potential leak paths, and provides sealing performance even beyond the current IP67 standards for time and pressure.



Conec Sealed D-subs are available in all the needed termination types, including: Solder Cup, straight PC tails, and right angle PC tails available in several offsets.



Most applications have the connector attaching to the panel from the inside (rear mount). However, some choose a Front Mount, and for that configuration Conec offers pre-installed and sealed mounting studs of various lengths, and the necessary hardware parts to complete the installation.



If your connector needs go beyond "Signals only", then the Combination D-sub arrangements allow mixtures of signal and Power contacts, and even coaxial types.



Since not all I/O ports are always connected, a useful accessory especially in harsh environments, is a Protective Cap. These caps include an internal rubber seal to positively keep out liquids. Caps with simple screws can be used during the shipment of equipment. For ports subject to connect/disconnect in the field, Caps with Lanyards are suggested so that they don't get lost.



Completing the Sealed Connector system, is a Sealed Hood. This adds an additional protective barrier at the panel surface, preventing liquids from reaching the connectors. The detail photos show the included Panel Seal, and the size-variable cable seal. The jackscrews are also sealed with o-rings.



• Thank you for exploring the world of Sealed D-subs from Conec.

CONEC – Sealed D-subs IP 65 / IP 67 Rated