



## SERIES 23

# SuperSeal™

## USB 2.0 and 3.0 and 3.2

## Ruggedized solutions

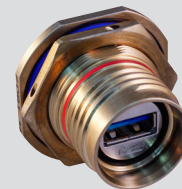
38999 Type SuperSeal ruggedized connectors offer outstanding metal-to-metal grounding sealing performance for commercial, USB 2.0 and high-speed USB 3.0 interfaces in a standard 38999 type package. Both versions are IP68 rated when mated and IP67 rated in the unmated condition for complete system protection against water sand and dust. Glenair USB 2.0 and 3.0 solutions are perfectly suited for field communications where connecting external peripherals such as storage devices, printers, and standard mouse and keyboard input devices. Beyond the addition of standard USB type peripherals these protocols also offer a means to connect other protocol based hardware through the use of supported adapters, including Ethernet RJ45 and HDMI (USB 3.0 preferred). 38999 Type SuperSeal USB connectors feature polarized keys to prevent mismatching and non-corrosive, conductive material and finish options. Highly durable SuperSeal™ insert design, provides enhanced operating temperature, increased life-cycle, and rugged vibration and shock performance. Simple plug-and-play connectivity and *hot-swappable* addition of external peripherals without restarting systems. Crimp, solder-cup, PC tail and cable assemblies available



### USB 2.0 AND 3.0 CONNECTOR



**USB 2.0 connectors begin on page C-3**



**USB 3.0 connectors begin on page C-21**



**USB 3.2 connectors begin on page C-40**