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Amphenol

USB Connectors



CONEC IP67 USB series

Data communication is also required in outdoor applications. Whether in traffic engineering, in maritime environments or mobile phone applications, long transmission distances and impacts such as heat, rain, snow, salty mist and dust place high demands on all connectors. The IP67 connectors developed by CONEC provide reliable protection against environmental influences and mechanical stress.



HDMI FTV

HDMI FTV is a complete ruggedized solution around HDMI standard using a Tri-Start Thread coupling mechanism (MIL-DTL-38999 series III type) to connect the plug and the receptacle. This solution allows you to insert a standard HDMI cordset into a metallic plug which will protect it from shocks, dust, and fluids.



LUSB (Lockable USB) Connector Series

LOCKABLE AND HIGHLY RELIABLE RUGGED USB SOLUTION Amphenol's LUSB series Lockable USB Connectors serve many markets and applications across the globe including Automotive, Communications, Consumer, Data, Industrial, and Medical.



Media Converter RES-GMC-1M-FORC with Fiber Remote control

Amphenol’s RES-GMC-1M-FORC is a MIL-STD rugged, unmanaged-military-grade Media converter, offering Gigabit communication. Developed for network deployment in harsh environment applications, the RES-GMC-1M-FORC series serves as a robust solution to extend your Tactical Gigabit Ethernet network over fiber.



Micro USB 2.0

Micro USB 2.0 connectors have power contacts of 1.8A and 3A current for fast charging. The plastic tongue and two-layer shells design ensure high reliability and prevent connector damage. Amphenol offers customized designs to suit various customer requirements. These connectors also offer high-speed signal stability of up to 480Mb/s transmission.



Micro USB 2.0 Connector

FCI Basics Micro USB 2.0 connectors deliver a data transfer rate up to 480Mb/s and are characterized by their high-speed signal stability. This smaller version of the Mini USB 2.0 connector while complying with the physical, electrical, and environmental standards of the micro form factor, supports 1.8A and 3A currents for fast charging.



Micro USB 3.0 Connector

Micro USB 3.0 (USB 3.1 Gen 1) SuperSpeed connector delivers 10x the data transfer rate of Hi-Speed USB as well as optimized power efficiency. This smaller version of the Mini USB 2.0 connector performs up to 5Gb/s and supports USB On The Go (OTG). It has full-duplex signaling over two differential pairs, improving host-directed simultaneous-bidirectional communication.



Micro USB 3.1 GEN 1

USB 3.1 Gen 1 now operates with full-duplex signaling over two differential pairs, improving host-directed simultaneous-bidirectional communication. USB 3.1 Micro offers a 5Gb/s signaling rate offering a 10x performance increase over Hi-Speed USB 2.0. SuperSpeed USB is backward compatible with USB 2.0 and will provide optimized power efficiency.



Micro USB Connectors

Amphenol creates high quality Micro USB connectors for today’s high definition media. These connectors can be customized to meet your specific needs. Special modifications may include customized configurations and customized mounting options.



Mini USB 2.0

Amphenol Mini USB Type B design offers customized design. Mini USB 2.0 connector takes up only about 1/8 of the space of standard USB-B, five circuits, with one circuit reserved for future use in host identification between devices. These portable devices are used for consumer applications and charging. These are available in both SMT and through-hole receptacles available.



Mini USB 2.0 Connector

FCI Basics Mini USB 2.0 connector delivers a data transfer rate of up to 480Mb/s. The connector takes up only about 1/8 of the space of a standard USB Type B interface, and has five circuits, with one circuit reserved for future use in host identification between devices. Amphenol offers customized designs of the Type B connector to suit various customer requirements.



Power USB Connector

FCI Basics Power USB Connector enables additional power delivery to 5V, 12V, or 24V peripheral devices connected using USB 2.0 cable links. When compared to a standard USB connector, this USB+Power connector interface includes four additional contacts each rated at 5A/contact, to supplement the connector's current-carrying capability. This eliminates the need for a separate power cable.



ROK

ROK, rugged oval key allows you to save and carry any information in total security. This memory key cannot be damaged, even by fire, by rolling up with a car, or by a pandemic. This is available in capacities from 16 to 256Gb, fast with a USB3.2 Gen1 transfer rate of 5 Gb/s, and can be connected to any USB port.



Rugged MRU Series USB 2.0

Amphenol's MRU series of USB 2.0 Type A connectors provide IP67 protection for enclosures per IEC 60529. With data rates up to 480Mb/s, the connector series is designed to provide a standard USB interface for enclosures exposed to harsh environments. While these connectors are offered as mating pairs, the receptacles can also mate with any other standard USB 2.0 plug.



Rugged USB 2.0

Amphenol's MUSBR series USB Connectors is a line of Generation 2 ruggedized USB connectors with die-cast housings and IP67 sealing, designed for Harsh Environment applications. Rugged series provide reliable performance in extreme conditions for the most demanding applications and mate with standard USB plugs.



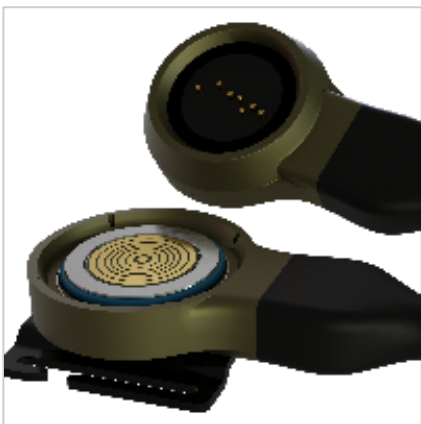
Rugged USB 3.0

RUGGED USB CONNECTOR FOR HARSH ENVIRONMENT APPLICATION Amphenol's Product Line of Rugged USB3.0 connectors serve many markets and applications across the globe including Medical, Industrial, Telecommunication, DataComm, etc.



Rugged USB Type C

MUSBR series is a line of Generation 2 ruggedized USB Type C connectors with die-cast housings and IP67 sealing, designed for Harsh Environment applications. MUSBR series USB Type C Connectors provide reliable performance in extreme conditions for the most demanding applications and mate with standard USB Type C plugs.



Stingray

Stingray 7 series offers compact, low profile, metal shelled connectors that withstand exposure to moisture, dust, dirt, and chemicals typically encountered by First Responders, Security, and Military personnel. The magnetic, non-keyed coupling system has no moving parts and allows the connector to be easily mated without the need for pre-alignment.



TVμCom USB3.0

These specific adaptations of μCom and TVμCom are optimized for USB3.2 Gen1 and intended for connection and disconnection in harsh environment military and aerospace applications.



USB 2.0

Amphenol USB 2.0 Connector was developed to integrate a variety of existing PC I/O ports into a single interface with hot-plugging and automatic configuration capabilities. It enables increased bandwidth to enhance serial I/O throughput for a wide range of peripherals. USB 2.0 connectors offer a stable signal data transmission up to 480Mb/s.



USB 2.0 & 3.0 Tactical Cordsets

USB2.0 & USB3.0 cordsets for harsh environments.



USB 2.0 Connector

FCI Basics USB 2.0 connector delivers a data rate of up to 480Mb/s. The Universal Serial Bus interface is ideal for use in connecting removable storage devices into automotive multimedia systems but extends its functionality across a variety of domains in consumer, datacom, and industrial applications.



USB 2.0 Type C (Lite version)

The Lite version of 16pin USB 2.0 Type C connectors come with, top and middle mount options. These connectors can deliver a speed performance of 480Mb/s, with a current rating of 5A, and power rating up to 100W. It is ideal for consumer applications such as wearable devices, power banks, smart home devices, e-cigarettes, and especially for TWS (True Wireless Stereo) headphones.



USB 3.0 Connector

FCI Basics USB 3.0 connector delivers a data rate of up to 5Gb/s thanks to the SuperSpeed transfer mode. As a third major revision of the USB standard, it is backward compatible with USB 2.0 devices and cables. USB 3.0 is available in vertical through hole, right angle through-hole, and upright through-hole positions.



USB 3.1 GEN 1

SuperSpeed USB will deliver 10x the data transfer rate of Hi-Speed USB, as well as improved power efficiency. With 5Gb/s signally rate, SuperSpeed USB 3.1 has a Sync-N-Go technology that minimizes user wait time. No device polling and lower active and idle power requirements are other significant features of these connectors. SuperSpeed USB is backward compatible with USB 2.0.



USB 3.1 GEN 1 Connector

FCI Basics USB 3.1 Gen 1 SuperSpeed connector delivers 10x the data transfer rate of Hi-Speed USB, as well as improved power efficiency. Standard form-factor plug and receptacle performs up to 5Gbps and has "Sync-N-Go" technology that minimizes user wait-time. SuperSpeed USB is backward compatible with USB 2.0.



USB 3.1 GEN 2

COMPLIANT TO USB 3.1 SPECIFICATIONS; IDEAL FOR SERVER APPLICATIONS Amphenol USB 3.1 Gen 2 Connector operates with full-duplex signaling over two differential pairs, improving host-directed simultaneous bidirectional communication. It supports scalable power delivery up to 100W and performance speed up to 10Gb/s.



USB 3.1 GEN 2 Connector

FCI Basics USB 3.1 Gen 2 Type C connector delivers 2x the data transfer rate of SuperSpeed USB, as well as offers highly improved power efficiency. The next-generation form factor provides a multifunction single cable solution for data, power, audio, and video. Standard form-factor plug and receptacle performs up to 10Gb/s and power delivery up to 100W.



USB3 FTV Memory Keys

Amphenol SOCAPEX reinforced USB memory keys are available in different capacities: 32, 64, 128 & 256Gb, and more. They can only be used with our Amphenol Socapex USB3FTV or USBFTV receptacles for data storage in harsh environments. The USB3.2 Gen1 max transfer rate is 5 Gb/s.



USB3F TV - Reduced Flange

With USB Field, you can insert a standard USB 3.0 cordset into a metallic plug which will protect it from shocks, dust, and fluids. No hazardous on-field cabling and grounding!



USB 4 Gen 3 Type C

USB 4 connectors compatible with Thunderbolt 4 interface combines power charging, tunneling USB, PCIe® data transfer, and DP video and audio capability in a single Type C connector. With a power rating of up to 100W, these connectors have a high-speed data transmission rate of up to 40Gb/s.



USB Extender / Amplifier

Extend your USB cordsets connection length over long distances.



USBF TV & USB3F TV

With Amphenol SOCAPEX USBF TV & USB3F TV, connectors, users can insert a standard USB 2.0 or USB 3.0 cordset into a metallic plug that protects it from shock, dust, and fluids. The range is for Atex Zone 2 environments. It's based on MIL-DTL-38999 series III with a threaded locking mechanism. The connectors are sealed against fluids and dust (IP68).



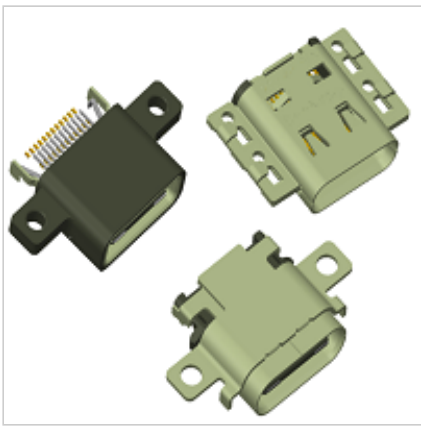
USB Mini & Micro Connectors

Amphenol LTW Waterproof Mini & Micro-USB 2.0 SWIFT Connectors are IP67 / IP68 stand-alone connectors suitable for miniature connector requirements or wearable applications.



USB Type A & B Connectors

Amphenol LTW's waterproof USB connectors are IP67 / IP68 rated and designed with standard Type A/B interfaces in various product configurations -- plastic/metal, screw/bayonet locking, receptacle, receptacle with cables, overmolded cable, and field-installable demands for industrial applications.



USB Type C

Amphenol offers customized USB type C receptacles, whether in USB2.0 or USB3.0 version, in surface or mid-mount SMT version. Amphenol has also developed its own standard “strong” type, which enables high soldering adhesion to the PCB, suitable for harsh environments or high cable pulling force requirements. Waterproof versions have been designed as well.



USB Type C

USB Type C connectors are expected to be widely used as a next-generation interface. They support a variety of protocols such as USB2.0/3.0/3.1 and meet Superspeed communication 10Gb/s, 5A, and 20V power supply. The usability of the USB 3.1 Type C connector is enhanced also by its low profile and reversible product design. It is ideal for emerging product designs.



USB Type C Connector and Cable Assembly

USB Type C standard receptacles provide multifunction single cable solutions for data, power, audio, and video. The small form factor made this interconnection a unquestioned technology across devices. The reversible design enables quick and easy connections, no matter which way it is inserted. 16-pin Type-C is a more economical solution to support 20V/5A 100W power charge & speed up to 480Mb/s.



USB Type C Connectors

Amphenol LTW offers a comprehensive range of rugged USB Type-C connectors delivering a high data transmission rate of up to 10 Gbps and superior power charging up to 5A current. Designed in various form factors with multiple termination options make it ideal to fulfill industrial harsh application.



Waterproof Micro USB 2.0

Amphenol's Waterproof Micro USB 2.0 comes with full shielding that protects against Electromagnetic Interference (EMI), Radio-Frequency Interference (RFI), and Electromagnetic Discharge (ESD). The USB connector supports fast charging with 1.8A power contacts and is capable to support up to 3A for customized needs. These halogen-free connectors meet IPX4 industry ratings.



Waterproof USB Type C

SCALABLE, SUPERSPEED CONNECTOR SYSTEM Waterproof USB Type C with IPX8 performance supports a variety of protocols such as USB 2.0, USB 3.2 Gen 1, USB 3.2 Gen 2 and meets high-speed communication and power delivery (20V, 5A). The usability of Waterproof Type C is with strong IP performance and unique IP technology to ensure each part meets the high quality of waterproof performance.

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