

Amphenol LTW

- IP67 / 68 Mated or Unmated
- Plastic or Metal
- Comprehensive Product Line
- Wide Assembly Style Options
- Various Mating Styles
- Flammability UL 94V-0

**NOTE: USB Type C
in another brochure**

USB Connector

Offer you ideal solution to
data/power transfer in
harsh environments



Type A 2.0

2 points lock, Screw thread
Metal, Plastic



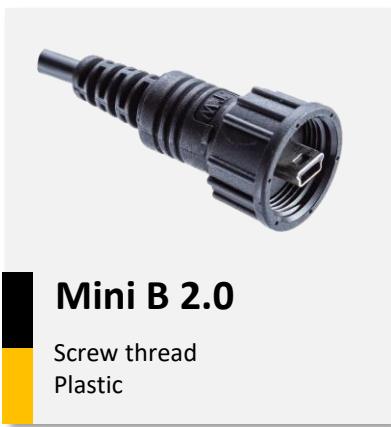
Type A 3.2 Gen 1

2 points lock, screw thread
Plastic



Type B 2.0

2 points lock, screw thread
Plastic



Mini B 2.0

Screw thread
Plastic



Micro B 2.0

Snap-in
Plastic



Micro AB 2.0

Snap-in
Metal

Unrivaled InterConnects for Harsh Environments

About ALTW



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Production Sites
(Taiwan, China, Mexico)

30+

Market Applications

90,000+

Products

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “**unrivaled interconnects for harsh environments**”. With over 300 worldwide patents, not only does ALTW offer the broadest and widest range of rugged interconnects in the industry but also customization with the mission of “Customer Satisfaction First”. Undoubtedly, ALTW is the leader in rugged interconnects, highly recognized for its uncompromising quality, short lead time, fast and tailored service and its very competitive pricing.

Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

Type A & B, Mini B, Micro B & AB

Amphenol LTW's complete range of waterproof USB connectors offer you ideal solution to data/power transfer in harsh or demanding environments. This USB family of connectors consist of Type-A, Type-B, Mini USB, Micro USB, and meet USB 2.0, USB 3.0, 3.2 (Gen 1) standard. This wide rage of product provides the convenience to our customer evaluating their USB connectors with multiple selection of connecting interfaces.



Mini & Micro

- ❖ IP67, IP68 mated or unmated
- ❖ Metal or plastic
- ❖ Mating style: screw thread, snap-in, 2 points lock
- ❖ Wide assembly style options
- ❖ Comprehensive product line
- ❖ Flammability UL 94V-0



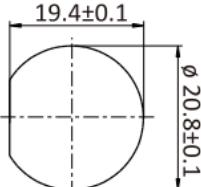
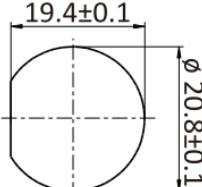
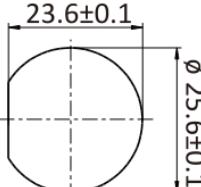
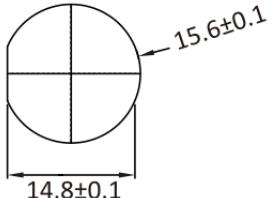
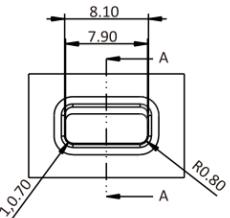
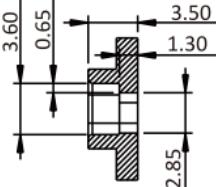
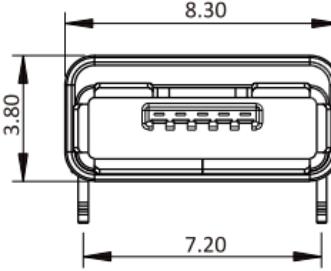
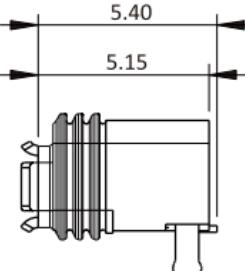
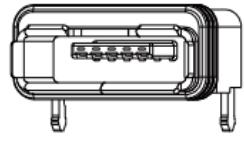
Type A & B

Served Markets & Applications

Market	Application
Marine	<ul style="list-style-type: none"> Navigation System: Radar, GPS, Sonar, Fish-finder, Auto-pilot, Sailing Instruments, Chartplotter Communication: Antenna, radio, AIS, SCS
Broadband Wireless Access	<ul style="list-style-type: none"> Access Point: LTE, 5G Cellular, Subscriber, and Mobile Station
Industrial Automation	<ul style="list-style-type: none"> Data Communication: Router, Switches Motors: Servo, Step, Encoder, Actuator
Renewable Energy	<ul style="list-style-type: none"> Device Communication and Tracker
Heavy Equipment	<ul style="list-style-type: none"> Navigation System: GPS, Lidar, Radar, Ultrasonic Instrumentation, Control, and Diagnostic Systems Monitoring: Display, Camera, Imaging
Autometer	<ul style="list-style-type: none"> Metering: Water, Electric, & Gas Meter Power and Control: Drone, Security Alarm
Test Equipment	<ul style="list-style-type: none"> Measuring Device: Air, Humidity, Light, sound, Water, Image, Weight, Height Detectors: Gas, Fire, Leak, Motion, Heat
Hybrid Electric Vehicles	<ul style="list-style-type: none"> Safety System: Speed, Brake, Throttle, Gear Power System: Charging, Controller, Battery, Plug & Inlet/Outlet (Low Power)
Railway Mass Transit	<ul style="list-style-type: none"> Navigation: GPS, Radar, Lidar, Ultrasonic Infotainment: Display, sound, Broadcasting, monitor Sensors: Speedometer, Fuel, Cleaning
Mobile Devices	<ul style="list-style-type: none"> Drone Remote Controller Measurement: Altimeter, Gesture, Piezoelectric
Transportation	<ul style="list-style-type: none"> Monitoring: Display, CTV, Lidar, Surveillance Cam Navigation: GPS, Radar
Medical Equipment	<ul style="list-style-type: none"> Visualization: Display and monitors Monitoring: ECG, Holter, Blood Pressure, Sugar
Automotive Diagnostics	<ul style="list-style-type: none"> Auto-crash detection & notification system Vehicle Tracking and Roadside Assistance System
UAV	<ul style="list-style-type: none"> Drone: Commercial, Consumer, & Military
Lifts & Materials Handling	<ul style="list-style-type: none"> Forklift, Industrial Lift, Material Handling
Remote Video Response Center	<ul style="list-style-type: none"> Monitoring: Display, CCTV, Dome, IP Camera Detection: Auto-License Plate Recognition, Alarm Identification: Fingerprint, Face detection, encoders
Autonomous	<ul style="list-style-type: none"> Navigation & Sensor: GPS, Lidar, Radar, Ultrasonic Imaging: Cameras, Monitors, Infotainment Display
Communication	<ul style="list-style-type: none"> Transmitter and Receiver Equipment
Rugged IT	<ul style="list-style-type: none"> Telemetry Military Notebook & Tablet and VR & AR

Panel Cut-Out

(unit: mm)

Type A & B	Screw Threaded (13/16"28 UNS) 	Lock Bayonet (2 points) (Nut OD: 25.4mm) 	Lock Bayonet (2 points) (Nut OD: 28.5mm) 
	Mini B 		
	Micro B  TOLERANCE .XX±0.05 Recommended Case Cut Out SCALE 2 : 1	 SECTION A - A	
Micro AB	 		



Amphenol LTW

Contact Us

Luc Kan | Sales & Marketing | luc@ltw-tech.com

Customer Service | sales@ltw-tech.com

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