

USB CONNECTIVITY ANYWHERE

Type A 3.2 Gen 1, 2.0

Type B 2.0

Type C 3.2 Gen 1 / Gen 2

Mini USB Type B 2.0

Micro USB Type AB





Amphenol LTW

**Enabling the
Electronics Revolution**

Unrivaled InterConnects for Harsh Environments



24+

Product Series

80,000+

Part Numbers
(>70% customized parts)

30+

Market
Applications

75+

Distribution
Channels

Amphenol LTW



Headquartered in New Taipei City, Taiwan with factories in Kunshan, Jiangsu Province, China PRC and Nogales, Mexico ALTW designs and manufactures uncompromising stringent quality interconnects.

Amphenol LTW

Since 1993, Amphenol LTW Technology “ALTW” lives and breathes to create, innovate, design and produce “*unrivaled interconnects for harsh environments*”. With over 280 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.

Our Capabilities

ALTW’s strategy is to have as much vertically integrated manufacturing in-house capabilities as possible in order to ensure quality assurance, short lead time and highly competitive pricing. These are for example:

- Testing Laboratories certified TAF and UL WDTP
- CNC lathe machined parts and contacts / pins
- Tooling / mold design and manufacturing
- Horizontal and vertical injection manufacturing
- Semi and full automated connector and cable assembly lines
- Cable assembly
- Total electronic turnkey solutions

Online Resource



Your benefits

- ✓ Worldwide access 24/7
- ✓ Product configuration
- ✓ Real time order tracking
- ✓ Online assistance (live chat)
- ✓ Instant drawing release
- ✓ Instant quotation
- ✓ Order online
- ✓ Catalogue

Easy to lock: Quick lock mechanism for fast, easy, secure installation

Shielded: 360° EMI and EMC protection



Smaller: Toward miniaturization

Tough: Withstands extreme/harsh environments

Faster: Higher speed, quick/easy installation and build

TREND OF PRODUCT DEVELOPMENT

Product Overview

Amphenol LTW

USB Connectors

Amphenol LTW's complete range of waterproof USB connectors offer you ideal solution to data/power transfer in harsh or demanding environments. This wide range of product provides the convenience to customer evaluating their USB connectors with multiple selection of connecting interfaces.



USB Connectors

Amphenol LTW

Type A 3.2 Gen 1, 2.0

Type B 2.0

Type C 3.2 Gen 1 / Gen 2

Mini USB Type B 2.0

Micro USB Type AB

Mating Style



Screw Thread



2 Points Lock

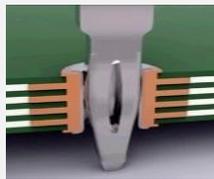


Snap-in

Assembly Style



PCB 180°



Press fit



SMT



Jack



FPC

Features



IP67 / IP68
(1m/24hrs)



Salt Spray
48H



UV
Resistant



Thermoplastic
UL Recognized



10 Gbps



Space
Saving



Harsh
Environment

Type A & Type B (2.0, 3.2 Gen1)

Features

- Operating temperature: -20°C ~ +80°C
- Mated waterproof IP67
- Nominal current 1A
- Rated voltage 0.5KV AC
- Contact resistance: 30mΩ Max.
- Durability 5,000 cycles



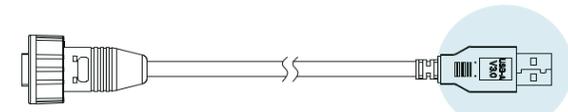
Applications



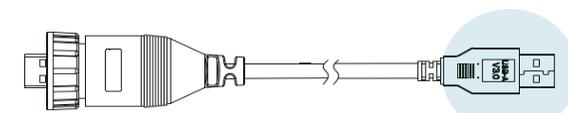
Receptacle with Cable to Overmolded with Cable



2 Points
Lock Bayonet

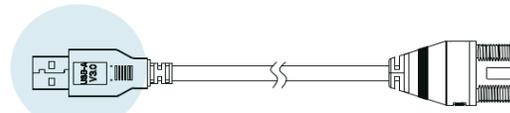


Screw Thread

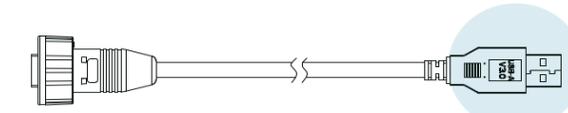


* Non-Waterproof

In Line



Screw Thread



Type A 2.0

Success Story

Amphenol LTW

- Market: Heavy Equipment
- Application: USB Charging Port

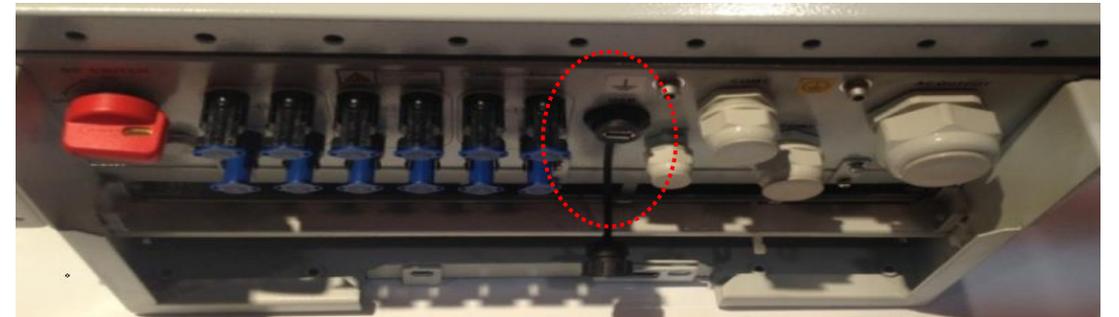


Type A 2.0

Success Story

Amphenol LTW

- Market: Renewable Energy
- Application: Inverter



Type A 2.0

Success Story

Amphenol LTW

- Market: Automotive
- Application: Charging Port

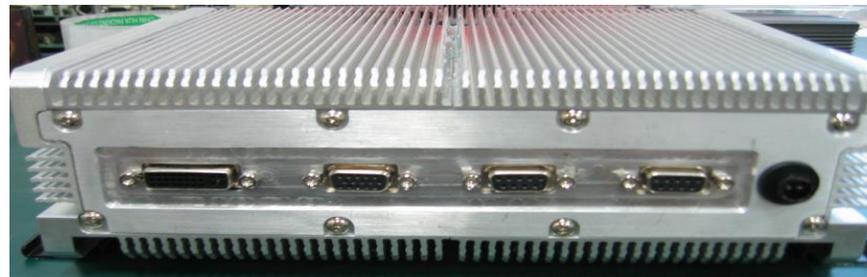


Type A 2.0

Success Story

Amphenol LTW

- Market: Industrial Automation
- Application: Industrial PC / Server

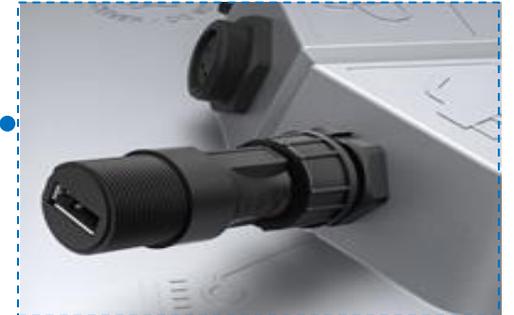


Type A 2.0

Success Story

Amphenol LTW

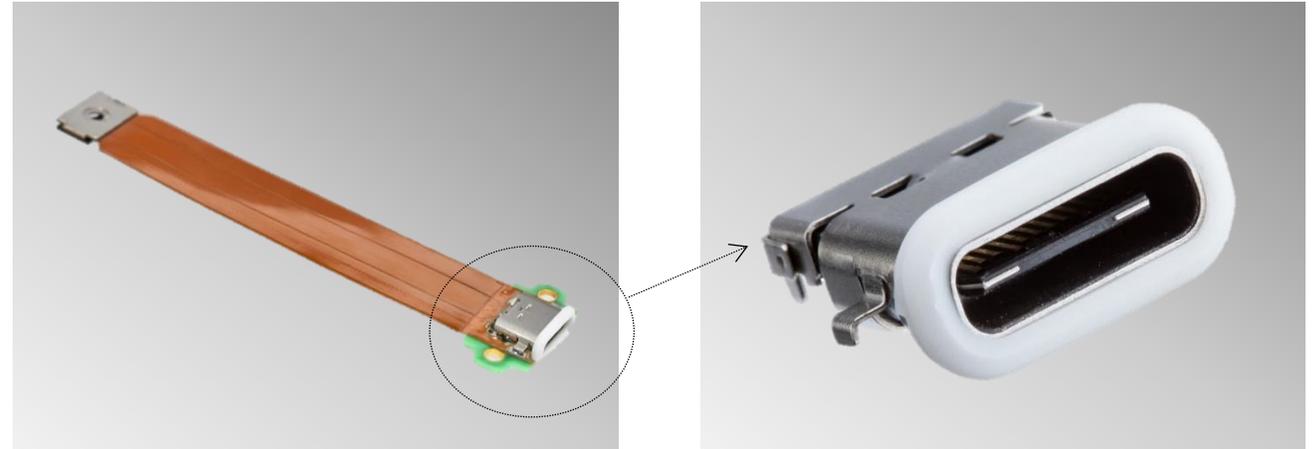
- Market: Marine
- Application: Electric Boat Motor



*Customized

Features

- Unmated waterproof IP67
- Nominal current 5A
- High data transmission up to 10 Gbps
- For applications where space is limited
- One-stop solution for receptacle with FPC



Applications



Features

- Unmated waterproof IP67
- Nominal current 3A
- High data transmission up to 5 Gbps
- Quick and easy installation with audio feedback
- Guided key for fool-proof, intuitive mating



Applications



Features

- Nominal current 3A
- High data transmission up to 5 Gbps
- Snap-in quick mating style
- Reversible mating style
- Receptacle unmated IP68, Cable mated IP67



Applications



Features

- Nominal current 5A
- High data transmission up to 10 Gbps
- Screw threaded
- Vibration environment approved
- Receptacle unmated IP67, Cable mated IP67

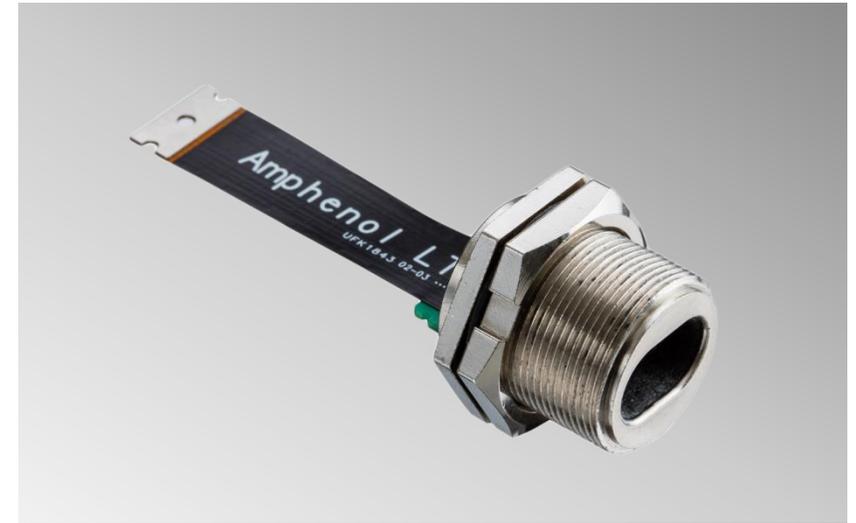


Applications



Features

- Nominal current 5A
- High data transmission up to 10 Gbps
- Designed for automotive application
- Vibration environment approved protective conduit for harsh environment
- Type A 2.0 available
- Type C to Type C, Type C to Type A 2.0 overmolded cable available



Applications



Features

- Unmated waterproof IP67 / IP68
- Nominal current 1.8A
- Stainless steel shell
- Compact & low profile design



Applications



Micro USB Swift

Success Story

Amphenol LTW

- Market: Wearable Devices
- Application: GPS Tracker



Features

- Mated waterproof IP67
- Nominal current 1.8A
- Snap-in quick mating style
- Quick and easy installation with audio feedback
- Compact & low profile design



Applications





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Thank You

