- Alternative solution to M12
- Spring loaded push lock design
- Protection up to IP68
- Power AC/DC, data, signal, hybrid
- Saving on-site installation time & costs
- UL1977 & 2238+50e
- Eliminating workmanship errors

Amphenol LTW

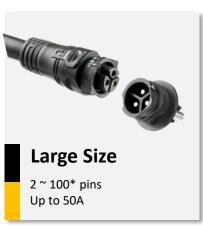
X-LOK Connector

Blind mating with audible and tactile feedback













Unrivaled InterConnects for Harsh Environments



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.

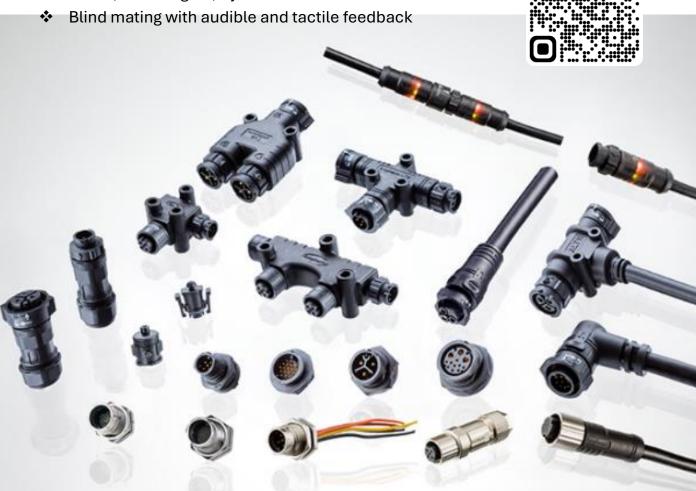
Regardless of the challenging environments that your products will be subject to; there is a very good chance that you will find what you are looking for with ALTW.

X-Lok Push Lock Connector

Amphenol LTW's X-Lok Push Lock connector offers secure, efficient and cost effective connectivity. Now unveiling the metal design, the robust construction and intuitive push lock mechanism can ensure reliable connections in the very roughest conditions. It is suitable for applications that requires extreme environmental resistance.

The X-Lok Series enable quicker installation than traditional threaded solutions. With UL1977 & 2238+50e certification, ALTW's X-Lok is your ideal solution for harsh environment and outdoor applications.

- IP68 mated or unmated
- Support high speed data transmission (Cat. 6A)
- Saving on-site installation time & costs
- Exponentially increase installation outputs
- Power, data / signal, hybrid



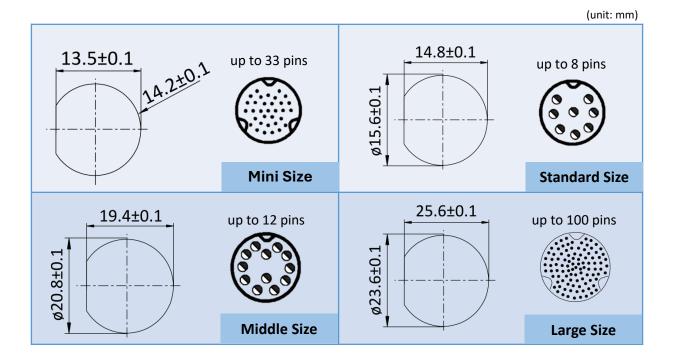
Product Range Overview

SUB SERIES	Mini A Size / Mini A Size LED	Standard B Size	Middle C Size	Large D Size
Mating Style	Push Lock	Push Lock	Push Lock	Push Lock
Plastic Version	✓	✓	✓	✓
Metal Version	✓	-	-	✓
No. of Contacts	2 ~ 33	2 ~ 8	2 ~ 12	2 ~ 100*
Transmission Rate	Cat. 5e, Cat. 6A	-	-	✓
Plating of Contacts	Gold Plating	Gold Plating	Gold Plating, Sliver Plating	Gold Plating, Sliver Plating
Operating Voltage (AC/DC)	30 ~ 630V	300 ~ 600V	300 ~ 600V	60V (0.5A), 300 ~ 600V
Nominal Current	0.5A ~ 16A	5A ~ 10A, 10A+5A	5A ~ 20A, 10A+5A	0.5A ~ 50A, 20A+5A, 50A+5A
Operating Temperature	Receptacle & Receptacle With Wires: -40°C ~ 105°C Overmolded With Cable: (1) Data Group: -20°C ~ 80°C (2) Power Group: -20°C ~ 105°C (3) Hybrid Group: -40°C ~ 105°C Field Serviceable/Installable: -40°C ~ 105°C			
Fasten Style of Nut	Front	Front, Rear	Front, Rear	Front, Rear
Receptacle	✓	✓	✓	✓
Receptacle with Cable	✓	✓	✓	-
Field Serviceable/Installable	✓	✓	✓	✓
Overmolded with Cable	✓	✓	✓	✓
Accessories	✓	✓	✓	✓
Mating Cycles (Pin Contact)	1000	1000	1000	1000
IP Rating	IP68	IP68	IP68	IP68
Salt Spray (Connector, Mated)	500h	500h	500h	500h
UV Resistant	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	Frequency Range 10 ~ 55Hz / Amplitude 1.52mm			
EMI Option	✓	-	-	✓
ROSH Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Certifications	CSA, UL1877, UL2238, UL50e, TUV			
Applicable Wire Gauge	32 ~ 14AWG	26 ~ 16AWG	26 ~ 12AWG	32 ~ 12AWG

Served Markets & Applications

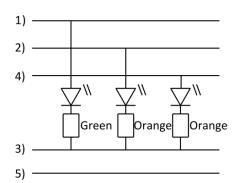
Market	Application			
LED Lighting	 Architectural Lighting Residential, Medical, and Commercial Lighting Street, Parking, Park, and Tunnel Lighting Entertainment and Signage Lighting 	Horticulture, Grow, & Warehouse Lighting Mass Transportation and Vehicles Marine Vessel and Submersible Lighting Appliances and Equipment Lighting		
Marine	 Navigation System: Radar, GPS, Sonar, Fish-finder, Auto-pilot, Sailing Instruments, Chartplotter Communication: Antenna, radio, AIS, SCS Instrumentation & Monitoring: MFD, CCTV, Sensors 	 Power Distribution: Appliances, Charging, HVAC Entertainment: Video, Audio, Decorative Motors: Outboard, Inboard, Pump, Actuator, Trolling Subsea: Exploration, Buoys, Underwater Vehicle 		
Broadband Wireless Access	Access Point: LTE, 5G Cellular and Mobile Station Wireless Router and Mobile Backhaul	Power Supply and distribution system Other Communication Equipment		
Industrial Automation	 Data Communication: Router, Switches Motors: Servo, Step, Encoder, Actuator Power Supply and Distribution Robotic Arms, Packaging, and Conveyor system 	 Controller: Machine Vision, AVI, Sensors Autonomous Robots, Forklifts, Power Tools Industrial PC, Counters, and Display 		
Renewable Energy	Photo Voltaic (PV), Concentrated Solar Power (CSP) Power Distribution and Control: Inverter, MLPE, ICS Device Communication and Tracker	Wind Turbine and Tidal Power Generation Energy Storage and Portable Energy		
Heavy Equipment	 Navigation System: GPS, Lidar, Radar, Ultrasonic Instrumentation, Control, and Diagnostic Systems Monitoring: Display, Camera, Imaging 	 Safety System: Sensor, ADAS, Telematics & Tracking Communication and Electronic Toll systems Power Distribution: Charging, Lighting, Equipment 		
Autometer	Metering: Water, Electric, & Gas Meter Power and Control: Drone, Security Alarm	Monitoring: Sewage, Telemetry, and Vehicle tracking		
Test Equipment	 Measuring Device: Air, Humidity, Light, sound, Water, Image, Weight, Height Detectors: Gas, Fire, Leak, Motion, Heat 	Monitoring: Seismic (earthquake), Climatic Weighing: Weigh, in-motion Geodetic System: Surveying, Laser marking, Borrescope		
Hybrid Electric Vehicles	Motor Module: Scooter, Hoover board, Wheelchair Safety System: Speed, Brake, Throttle, Gear Power System: Controller	 Sensors: Speedometer, Fuel, Cleaning Device Communication: CAN, In-vehicle Info Lighting: Interior and Exterior LED 		
Railway Mass Transit	 Navigation: GPS, Radar, Lidar, Ultrasonic HVAC Infotainment: Display, sound, Broadcasting, monitor 	Sensors: Speedometer, Fuel, Cleaning Communication: Main Controller, In-vehicle Info Lighting: Interior and Exterior		
Mobile Devices	Drone Remote Controller Measurement: Altimeter, Gesture, Piezoelectric	Handheld: Barcode, Scanner, Portable lamp, GPS		
Transportation	Monitoring: Display ,C CTV, Lidar, Surveillance Cam Communication: Wifi, router, Fleet Management Navigation: GPS, Radar	Power: Charger, Outlet, Inlet Peripherals: Speaker, Electronic seats, Winches		
Medical Equipment	 Patient Care: Electric Beds, Wheelchair Lift & stair, Rehabilitation, System, Mobile Carts Visualization: Display and monitors 	Diagnostic: MRI, CT Scan, Ultrasound, X-ray Monitoring: ECG, Holter, Blood Pressure, Sugar		
Automotive Diagnostics	Auto-crash detection & notification system Vehicle Tracking and Roadside Assistance System	Remote Diagnostics		
UAV	Drone: Commercial, Consumer, & Military			
Lifts & Materials Handling	Forklift, Industrial Lift, Material Handling			
Remote Video Response Center	Monitoring: Display ,CCTV, Dome, IP Camera Detection: Auto-License Plate Recognition, Alarm Identification: Face detection, encoders	Remote Control Devices and Sensors Peripherals: Junction boxes and cabling system Lighting: Interior and Exterior		
Autonomous	Navigation & Sensor: GPS, Lidar, Radar, Ultrasonic, IMU Imaging: Cameras, Monitors, Infotainment Display	Controller: Inertial Measurement Unit & Navigation System, Central Computer		
Communication	Transmitter and Receiver EquipmentData: Router and SwitchesBase Station and Access Point	Audio: VoIP, Telephone High Bandwidth: Multiplexer & demultiplexer		
Rugged IT	Telemetry Military Notebook & Tablet and VR & AR			

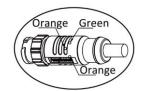
Panel Cut-Out



X-Lok Mini Size with LED Indicator

- Suitable for factory automation & EN61373 / SAE J2839 shock & vibration approved
- With LED indicator colors: Green / Orange / Orange
- Starts from 3 / 4 / 5 pins
- Temperature -40°C ~ 105°C
- Long service life ≥ 1,000 cycles
- Protection class IP68
- Corrosion resistance up to 500h
- Right angle / straight available







Part Number:

Female Connector, Female Contact

Male Connector, Male Contact



Ultra High Density

Alternative Solution to M12

Amphenol LTW's 33-pin Ultra High-Density (UHD) X-Lok Mini Size push lock connector boasts compact design and high contact density, providing space efficiency and enhanced data transmission. Ideal for the newest automation systems, sensor arrangements, industrial cameras, medical equipment as well as measurement and control technology. It offers a versatile and cost-effective solution for various industries, ensuring optimal performance in constrained spaces.



Watch video

- ✓ Up To 33 Contacts
- ✓ Metal, Shielded
- ✓ High-performance
- ✓ Blind Mate
- ✓ Audible Feedback
- ✓ Push-Lock Quick Mating

Features and Specification:

Current Rating	0.5A	
Voltage Rating	30V	
Temperature Range	-40 °C ~ 105°C	
Waterproof Rating	IP68 (1M/24Hrs)	
Durability	1000 Cycles	
Salt Spray	48 Hours	
Mating Style	Push Lock	
Durability Salt Spray	1000 Cycles 48 Hours	

Part Number:

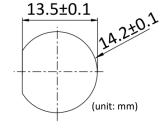
Receptacle:

ASY-33PMMP-QC8001

Overmolded:

ASY-33BFFM-QL8C01

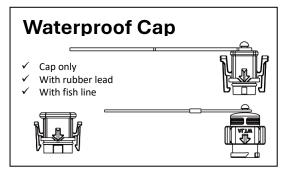
Panel Cut-Out:

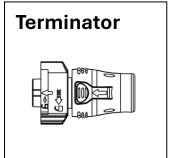


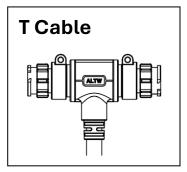
Circular Flange (D Cut)

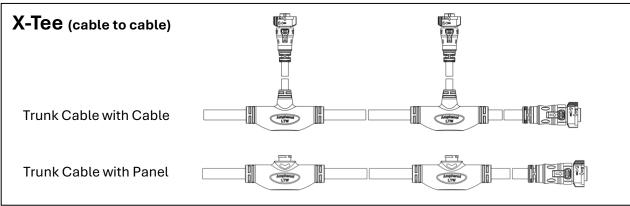
Accessory

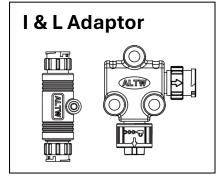
(click the image to find more product information)

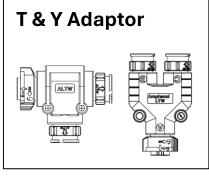


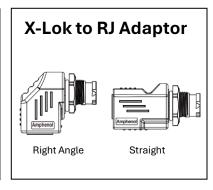


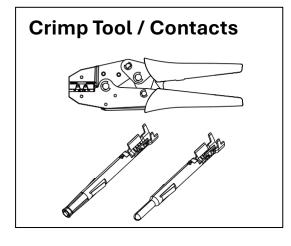


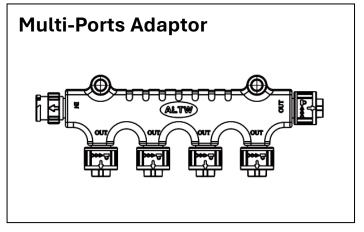














Contact Us

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

Follow Us







