

Amphenol LTW

- IP67 / IP68 mated
- Nominal current up to 50A (80A upon request)
- Flammability UL 94V-0
- Screw thread, 2 points lock, 3 points lock mating style
- UL / cUL / TUV Certified

POWER Connector

**Operating voltage
up to 600V**

PWC



2 Points Lock, 3 Points Lock
20A

PWCU



2 Points Lock, 3 Points Lock
20A+2A

PWE



Screw Thread
8A

PWF



Screw Thread
12A

PWG



Screw Thread
16A

PWH



2 Points Lock, Screw Thread
25A

PWL



3 Points Lock
30A

PWM



3 Points Lock
50A

PWMU



3 Points Lock
50A+2A

Unrivaled InterConnects for Harsh Environments

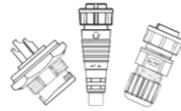
About ALTW

**3**

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.

Unrivaled InterConnects for Harsh Environments

Power Connector

Amphenol LTW's Power Series Connectors are rated up to IP68, providing a current rating range from 8A to 50A in a variety of shell sizes.

In design and conception, the Ecomate® program meets the high requirements for applications in industrial technology. Easy operation, reduced dimensions and a more robust design are only a few of the features of the series. The connector's main area of application is in the fields of plant construction and machine building. The connector is used for measuring and controlling applications as well as for power supply technology.

- ❖ Nominal current up to 50A
- ❖ Waterproof IP67 / IP68
- ❖ UL / IEC/ EN61984 Certified
- ❖ RoHS & REACH compliant



Product Range Overview

SUB SERIES	PWC	PWCU	PWE	PWF	PWG
Mating Style	2 Points Lock, 3 Points Lock	2 Points Lock, 3 Points Lock	Screw Thread	Screw Thread	Screw Thread
Plastic Version	✓	✓	✓	✓	✓
Metal Version	-	-	-	-	-
No. of Contacts	3	3, 12	5 ~ 7	2 ~ 4	4
Plating of Contacts	Gold Plated, Silver Plated	Gold Plated, Tin Plated	Gold Plated	Gold Plated	Gold, Silver, Tin Plated
Operating Voltage (AC/DC)	277V	277V	277V	277V	277V
Nominal Current	20A	20A+2A	8A	12A	16A
Operating Temperature	Receptacle: -40°C ~ 105°C Overmolded With Cable: -20°C ~ 80°C Field Serviceable/Installable: -40°C ~ 105°C				
Fasten Style of Nut	Front / Rear	Rear	Front	Front	Front
Receptacle	✓	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓	✓
Overmolded with Cable	✓	✓	✓	✓	-
Accessories	✓	✓	✓	✓	✓
Mating Cycles (Pin Contact)	500	500	500	500	500
IP Rating	IP67	IP67	IP67	IP67	IP67
Salt Spray (Connector, Mated)	48h	48h	48h	48h	48h
UV Resistant	✓	✓	-	-	✓
Flammability Rating	UL94V-0	UL94V-0	94-HB	94-HB	UL94V-0
Vibration Resistant	Frequency Range 10 ~ 55Hz / Amplitude 1.52mm				
RoHS Compliant	✓	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓
Certifications	UL2238, UL1977, IEC/EN61984	UL2238	UL2238	UL2238	UL2238
Applicable Wire Gauge	16 ~ 14AWG	16 ~ 14AWG	22 ~ 20AWG	18 ~ 16AWG	18 ~ 14AWG

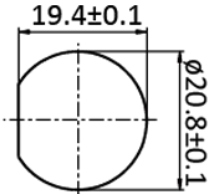
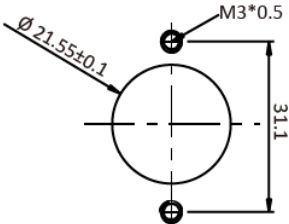
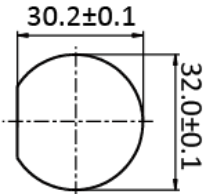
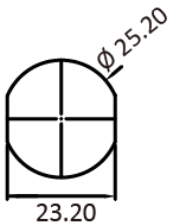
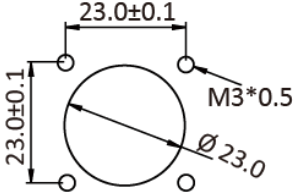
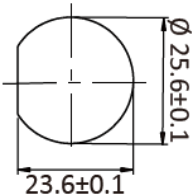
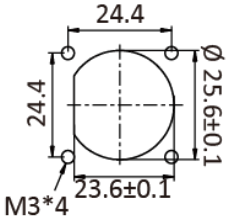
Product Range Overview

SUB SERIES	PWH	PWL	PWM	PWMU
Mating Style	2 Points Lock, Screw Thread	3 Points Lock	3 Points Lock	3 Points Lock
Plastic Version	✓	✓	✓	✓
Metal Version	-	-	-	-
No. of Contacts	3 ~ 5	3	2	4 ~ 6
Plating of Contacts	Gold, Tin Plated	Tin Plated	Silver Plated	Gold, Silver Plated
Operating Voltage (AC/DC)	660V AC, 1000V DC	300V	600V	600V
Nominal Current	25A	30A	50A	50A+2A
Operating Temperature	Receptacle: -40°C ~ 105°C Overmolded With Cable: -20°C ~ 80°C Field Serviceable/Installable: -40°C ~ 105°C			
Fasten Style of Nut	Front	Front	Rear	Rear
Receptacle	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓
Overmolded with Cable	✓	-	-	-
Accessories	✓	✓	✓	✓
Mating Cycles (Pin Contact)	500	500	500	500
IP Rating	IP67, IP68	IP67	IP67	IP67
Salt Spray (Connector, Mated)	500h	48h	720h	720h
UV Resistant	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL94V-0	UL94V-0
Vibration Resistant	Frequency Range 10 ~ 55Hz / Amplitude 1.52mm			
RoHS Compliant	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓
Certifications	UL2238	UL2238	UL2238	UL2238
Applicable Wire Gauge	14 ~ 10AWG	14 ~ 8AWG	9 ~ 8AWG	9 ~ 8AWG

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, Chart Plotter - Communication: Radio, AIS, SCS - Instrumentation & Monitoring: MFD, CCTV, Sensors	- Power Distribution: Appliances, Charging, HVAC - Entertainment: Video, Audio, Decorative - Motors: Outboard, Inboard, Pump, Actuator, Trolling
Broadband Wireless Access	- Access Point: LTE, 5G - Cellular, Subscriber, 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	- 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 - 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	Monitoring: Sewage	
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, Boroscope
Hybrid Electric Vehicles	- Motor Module: Scooter, Hoover board, Wheelchair - Safety System: Speed, Brake, Throttle - Power System: Charging, Battery, Plug & Inlet/ Outlet	- 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 - Lighting: Interior and Exterior
Transpo	- Monitoring: Display ,C CTV, Lidar, Surveillance Cam - Power: Charger, Outlet, Inlet	
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	- Peripherals: Junction Boxes and Cabling System - Lighting: Interior and Exterior
Autonomous	Imaging: Cameras, Monitors, Infotainment Display	
Communication	- Transmitter and Receiver Equipment - Data: Router and Switches - Base Station and Access Point	- High Bandwidth: Multiplexer & Demultiplexer - Audio: VoIP, Telephone

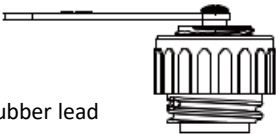
Panel Cut-Out

(unit: mm) PWC PWCU	✓ 2 Points Lock ✓ 3 Points Lock 
PWE PWF PWG	✓ Screw Thread 
PWH	✓ 2 Points Lock ✓ Screw Thread Screw Threaded  Lock Bayonet 
PWL	✓ 3 Points Lock 
PWM PWMU	✓ 3 Points Lock Panel Nut  Screw 

Accessory

Waterproof Cap

(click the image to find more product information)

Cap only With chain With rubber lead			
Size	Mating Pair (Gender)	Waterproof Cap	P/N
PWE PWF PWG	Male	Cap only	CAP-WTAM SMA1
		With rubber lead	CAP-WTAM SPC1
		With chain	CAP-WTAM SPB1
		With fish line	CAP-WTAM SPD1
	Female	Cap only	CAP-WTAF SMA1
		With rubber lead	CAP-WTAF SPC1
		With fish line	CAP-WTAF SPD1
Size	Mating Pair (Gender)	Waterproof Cap	P/N
PWC PWCU	Female	Cap only	CAP-WACFLMA2
PWH	Male	With fish line	CAP-WPWTMD1
	Female	With fish line	CAP-WPWFTMD1
Size	Mating Pair (Connector Type)	Waterproof Cap	P/N
PWM PWMU	Field Installable Overmolded	Cap only	CAP-WPWFTCD1
	Receptacle	Cap only	CAP-WPWMTMA1

Wrench

Part number: TOL-H015-01





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Contact Us

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

Customer Service | sales@ltw-tech.com

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