

**Amphenol LTW**

- IP67 mated, IP68 unmated
- Pre-assemble wire / cable assembly
- Connector interface meet ANSI / B93.55M-1981
- Customized solutions available

# D-SUB

D-subminiature

## Connector

**Fool-proof  
alignment key design**



### High Density

Screw thread, Automated latch  
Metal



### Standard

Screw thread, Automated latch  
Metal

**Unrivaled InterConnects for Harsh Environments**

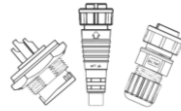
# About ALTW

**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***

# D-Sub Connector

The I/O connection system has been a common interface to electronic applications for a long time. These products are applied to nearly all markets & applications, from industrial control to telecommunications.

ALTW D-Sub connectors are developed in 5 different standard housing fit for standard/high-density pin contact & sealed for ingress protection up to IP68.

- ❖ IP67 / 68 mated or unmated
- ❖ Pre-assemble wire / cable assembly eliminates wiring errors
- ❖ Connector interface meet ANSI / B93.55M-1981
- ❖ Customized solutions available
- ❖ RoHS & REACH compliant



# Product Range Overview

| SUB SERIES                    | High Density                                                                                                      | Standard    |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------|
| Mating Style                  | Screw Thread, Automated Latch                                                                                     |             |
| Plastic Version               | -                                                                                                                 | -           |
| Metal Version                 | ✓                                                                                                                 | ✓           |
| No. of Contacts               | 15 ~ 78                                                                                                           | 9 ~ 50      |
| Plating of Contacts           | Gold Plated                                                                                                       | Gold Plated |
| Operating Voltage (AC/DC)     | 125V DC                                                                                                           | 125V DC     |
| Nominal Current               | 2A                                                                                                                | 5A          |
| Operating Temperature         | Receptacle: -40°C ~ 105°C<br>Overmolded with Cable: -40°C ~ 105°C<br>Field Serviceable/Installable: -40°C ~ 105°C |             |
| Fasten Style of Nut           | Front                                                                                                             | Front       |
| Receptacle                    | ✓                                                                                                                 | ✓           |
| Receptacle with Cable         | -                                                                                                                 | -           |
| Field Serviceable/Installable | ✓                                                                                                                 | ✓           |
| Overmolded with Cable         | ✓                                                                                                                 | ✓           |
| Accessories                   | ✓                                                                                                                 | ✓           |
| Mating Cycles (Pin Contact)   | 500                                                                                                               | 500         |
| IP Rating                     | IP67, IP68                                                                                                        | IP67, IP68  |
| Salt Spray (Connector, Mated) | 8h                                                                                                                | 8h          |
| UV Resistant                  | -                                                                                                                 | -           |
| Flammability Rating           | -                                                                                                                 | -           |
| Vibration Resistant           | Frequency range 10 ~ 55Hz / Amplitude 1.52mm                                                                      |             |
| EMI Option                    | ✓                                                                                                                 | ✓           |
| RoHS Compliant                | ✓                                                                                                                 | ✓           |
| REACH Compliant               | ✓                                                                                                                 | ✓           |
| Certifications                | -                                                                                                                 | -           |
| Applicable Wire Gauge         | 24 ~ 28 AWG                                                                                                       | 22 ~ 30 AWG |

# Served Markets & Applications

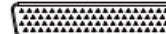
| Market                       | Application                                                                                                                                                                                     |                                                                                                                                                                                      |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Marine                       | <ul style="list-style-type: none"> <li>• Navigation System: Auto-pilot, Chart Plotter, Sailing</li> <li>• Communication: Radio, AIS</li> <li>• Instrumentation &amp; Monitoring: MFD</li> </ul> | <ul style="list-style-type: none"> <li>• Power Controller and Lighting System</li> <li>• Entertainment: Video, Audio, Decorative</li> <li>• Shipyard and Cruise Equipment</li> </ul> |
| Broadband Wireless Access    | <ul style="list-style-type: none"> <li>• Access Point: LTE, 5G</li> </ul>                                                                                                                       |                                                                                                                                                                                      |
| Industrial Automation        | <ul style="list-style-type: none"> <li>• Data Communication: Router, Switches</li> <li>• Industrial PC &amp; Server, Controller, Switches</li> </ul>                                            | <ul style="list-style-type: none"> <li>• Industrial Forklifts and Trucks</li> </ul>                                                                                                  |
| Renewable Energy             | <ul style="list-style-type: none"> <li>• Power Distribution Control System</li> <li>• Device Communication and Tracker</li> </ul>                                                               | <ul style="list-style-type: none"> <li>• Wind Turbine</li> <li>• Tidal Power Generation System</li> </ul>                                                                            |
| Heavy Equipment              | <ul style="list-style-type: none"> <li>• Instrumentation, Control, and Diagnostic Systems</li> <li>• Monitoring: Display, Camera, Imaging</li> </ul>                                            | <ul style="list-style-type: none"> <li>• Safety System: ADAS, Telematics &amp; Tracking</li> <li>• Communication and Electronic Toll Systems</li> </ul>                              |
| Test Equipment               | <ul style="list-style-type: none"> <li>• Precision Surveying</li> <li>• Heavy-Duty Scales&amp; Floor Scales</li> </ul>                                                                          |                                                                                                                                                                                      |
| Railway Mass Transit         | <ul style="list-style-type: none"> <li>• Navigation: GPS</li> <li>• Communication: Main Controller, In-vehicle Info</li> </ul>                                                                  | <ul style="list-style-type: none"> <li>• Infotainment: Display, sound, monitor</li> </ul>                                                                                            |
| Transporation                | <ul style="list-style-type: none"> <li>• Switch</li> </ul>                                                                                                                                      |                                                                                                                                                                                      |
| Medical Equipment            | <ul style="list-style-type: none"> <li>• Displays, Plotter, and Monitors</li> <li>• Non-Invasive Devices</li> </ul>                                                                             |                                                                                                                                                                                      |
| Automotive Diagnostics       | <ul style="list-style-type: none"> <li>• Remote Diagnostics</li> <li>• Auto-Crash Detection</li> </ul>                                                                                          | <ul style="list-style-type: none"> <li>• Roadside Assistance</li> </ul>                                                                                                              |
| UAV                          | <ul style="list-style-type: none"> <li>• Drone: Commercial, Consumer, &amp; Military</li> </ul>                                                                                                 |                                                                                                                                                                                      |
| Lifts & Materials Handling   | <ul style="list-style-type: none"> <li>• Forklift, Industrial Lift, Material Handling</li> </ul>                                                                                                |                                                                                                                                                                                      |
| Remote Video Response Center | <ul style="list-style-type: none"> <li>• Monitoring: Display ,CCTV, Dome, IP Camera</li> <li>• Detection: Auto-License Plate Recognition, Alarm</li> </ul>                                      | <ul style="list-style-type: none"> <li>• Identification: Face detection, encoders</li> <li>• Peripherals: Junction boxes and cabling system</li> </ul>                               |
| Autonomous                   | <ul style="list-style-type: none"> <li>• Controller: Inertial Measurement Unit &amp; Navigation</li> <li>• Imaging: Cameras, Monitors, Infotainment Display</li> </ul>                          | <ul style="list-style-type: none"> <li>• Navigation &amp; Sensor: Lidar, Ultrasonic, IMU</li> <li>• System, Central Computer</li> </ul>                                              |
| Communication                | <ul style="list-style-type: none"> <li>• Transmitter and Receiver Equipment</li> <li>• Data: Router and Switches</li> </ul>                                                                     | <ul style="list-style-type: none"> <li>• Base Station and Access Point</li> </ul>                                                                                                    |
| Rugged IT                    | <ul style="list-style-type: none"> <li>• Communication Device</li> <li>• Rugged Notebook</li> </ul>                                                                                             |                                                                                                                                                                                      |

# Contact Configuration

## Standard D-SUB (5A)

| 9 Pin                                                                             |   |   | 15 Pin                                                                            |   |   | 25 Pin                                                                            |   |   | 37 Pin                                                                             |   | 50 Pin                                                                              |   |
|-----------------------------------------------------------------------------------|---|---|-----------------------------------------------------------------------------------|---|---|-----------------------------------------------------------------------------------|---|---|------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|
|  |   |   |  |   |   |  |   |   |  |   |  |   |
| R                                                                                 | F | C | R                                                                                 | F | C | R                                                                                 | F | C | R                                                                                  | F | R                                                                                   | F |

## Hight Density D-SUB (2A)

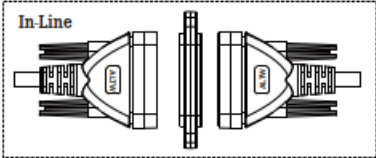
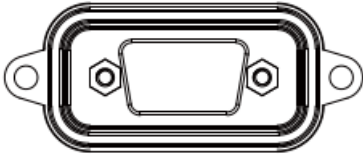
| 15 Pin                                                                            |   |   | 26 Pin                                                                            |   |   | 44 Pin                                                                            |   |   | 62 Pin                                                                             |   | 78 Pin                                                                              |   |
|-----------------------------------------------------------------------------------|---|---|-----------------------------------------------------------------------------------|---|---|-----------------------------------------------------------------------------------|---|---|------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|
|  |   |   |  |   |   |  |   |   |  |   |  |   |
| R                                                                                 | F | C | R                                                                                 | F | C | R                                                                                 | F | C | R                                                                                  | F | R                                                                                   | F |

R: Receptacle F: Field Serviceable/Installable C: Overmolded With Cable

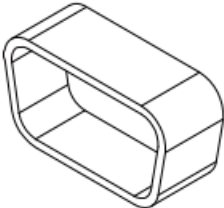
## Accessory

(click the image to find more product information)

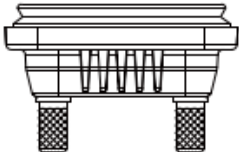
Joint



Dust Cap



Waterproof Cap





# Amphenol LTW

## Contact Us

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## Follow Us



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