Amphenol LTW

- Voltage: Power Pin: 600V;Signal Pin: 30V
- Operating temperature: up to -40°C ~ +125°C
- 5000 durability cycles
- Panel to panel connection
- Blind mating
- ±1.5mm X and Y float

SWAPPING CONNECTOR



Best solution for E-MobilitySwappable Battery

The swappable connector solutions offered in 2 power & 8 signal configurations. These connectors can carry a continuous current of 50A with 5,000 mating cycles and IP67 rated in mated and unmated conditions.





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.

Swapping Connector

Plug		Socket	
Part Number	SPMD-10PMFC-QSD7001	Part Number	SPMD-10PFMC-QSD7001
Configuration	2 Power Pin / 8 Signal Pin	Configuration	2 Power Pin / 8 Signal Pin

General Specification:

- ✓ Operating Temperature: -40°C ~ 125°C
- ✓ Mating Style: Snap In
- ✓ Durability: 5000 cycles
- ✓ Operating Voltage: Power Pin: 600V; Signal Pin: 30V
- ✓ Nominal Current: Power Pin: 50A; Signal Pin: 5A
- ✓ Plug: IP67 (mated or unmated) / Socket IP67 (mated)
- ✓ Salt Spray: 48h
- ✓ Insulation Resistance: ≥200MΩ (500V DC)
- ✓ Withstanding Voltage: Power Pin 2200V AC; Signal Pin 500V AC
- ✓ Current Temperature Rise Test: 50A, $\triangle t \le 55^{\circ}C$
- ✓ IEC 61984 (Pollution degree: 3; Overvoltage category: III)
- ✓ UL Material Certification



Application:

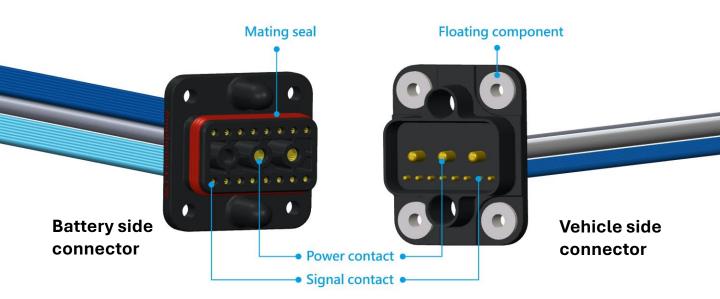




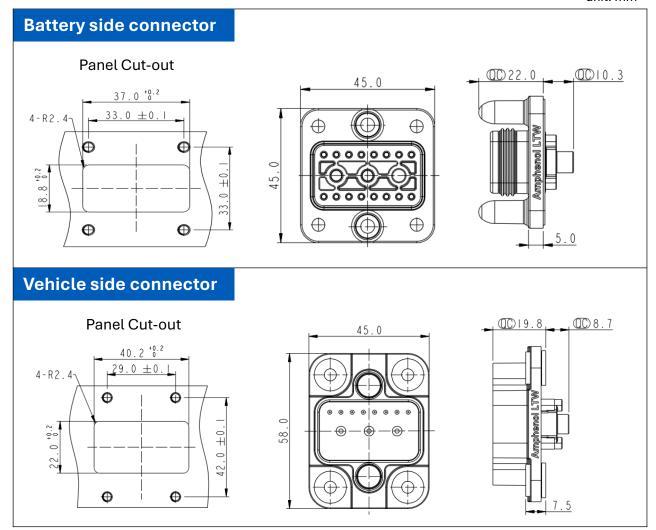


connector

Swapping Connector



unit: mm



Assembly Instructions

Select unshielded cables
that fulfill the following
requirements

Cable Spec.	OD (mm)
6mm ²	≤4.9mm
0.5mm ² or 0.75mm ²	≤2.3mm

Wire cutting

Cable Spec.	Socket	Plug	
6mm ²	(L+3mm) 2mm	(L+5mm) 2mm	
0.5mm ² or 0.75mm ²	(L+1mm) 2mm	(L+1mm) 2mm	

Strip the cable jacket to the specified size



A (mm)	8.5±0.5	Power terminals
	6.5±0.5	Signal terminals

Insert the cable conductor into the terminal crimping barrel and rivet it



Cable Spec Pulling Force (N)

The tensile strength after riveting shall not be less than the following values:

Cable Spec	Pulling Force (N)		Terminal	OD (mm)	ı
6mm ²	780		Type	after crimping	ı
0.75mm ²	80		Power	≤4.6mm	
0.5mm ²	70		Signal	≤2.1mm	
0.011111	10	٠.			

Assembling the connectors





Click and watch the video

Electrical test

- Continuity test: 100%
- Insulation resistance: ≥200M Ω (500V DC)
- Withstand voltage: Power-Power, Power-Signal: 2200VAC 1min, Leakage Current ≤5mA Signal-Signal: 500VAC 1min, leakage current ≤5mA

Recommended tightening torque

Screw	Torque (N.m)	Material	Remark
ST2.2	0.16-0.2	Plastic	For panel assembly
NAA	0.8-1.0	Aluminum / Iron For back cove	
M4	0.8-1.2	Steel	assembly





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