

 Unique PUSH-PULL interface
Truly Backward compatible to all existing NMEA 2000 sockets

Amphenol LTW

NMEA 2000

High Signal Reliability Standardized Network



Lite (Micro) Push pull, Screw thread Metal, Plastic



Heavy (Mini)

Screw thread Metal



NMEA Starter Kit Basic, Pro, Advance Metal, Plastic

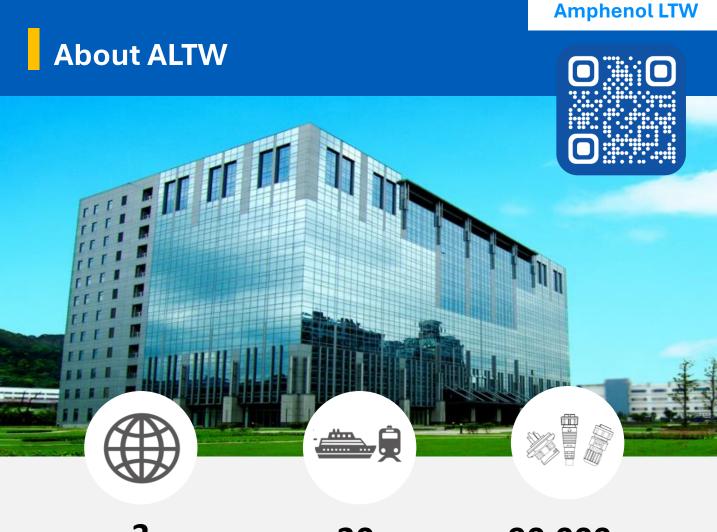


Blister Packing Small, medium, large size Metal, Plastic



Accessory Adaptor, T-Cable... etc. Metal, Plastic





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

NMEA 2000

Amphenol LTW NMEA 2000 Connector System is specifically designed to meet NMEA 2000 protocols and standards. The IP68-rated family of multi-port, standard and metric circular connectors, sensors and actuator cables, and elbow joints are ideal for connecting marine electronic equipment and display units within ships and boats. The NMEA 2000 line features high signal reliability, allowing multiple electronic devices to share data over one common channel. Starter kits are available for this Amphenol LTW connector system, offered in basic packages and professional packages, to help build NMEA 2000 networks with varying levels of complexity.

ALTW's NMEA 2000 network system can be applied in a wide range of applications, such as fish finder, GPS receivers, auto pilots, sonars and audio-systems. ALTW's NMEA 2000 solutions can enhance the performance of your marine electronic devices.



Elbow Multiple-port Double-ended Cordsets Multiple-port Drop Cable Field Installable T-Cable (2M) T-Connector 6 Metal: Metal: HMC-05BFFB-SL7001 HMC-05BFFM-SL8AXX Plastic: Plastic: HPC-05BFFB-SL7001 Terminator HPC-05BFFM-SL8AXX (In-Line) Metal: Plastic: Metal: HMC-05BMMB-SL7001 HPC-05CMMM-SL8AXX H-555555-FFFFFM-S001 Plastic: a Plastic: HPC-05BMMB-SL7001 Terminator P-555555-FFFFFM-S001 ŧ Metal HMC-05BMMM-SL8AXX Metal Battery Plastic: HMC-000505-0ME-IS001 HPC-05BMMM-SL8AXX Plastic: HPC-000505-0MF-IS001 Metal: HMC-000505-0FM-ES001 HPC-000505-0MF-DSAXX RoHS Plastic: HPC-000505-0FM-ES001 111941/-0 **NMFA 2000** RoHS IP67 / IP68 Certified **IP69K**

ALTW's NMEA 2000 Network System

PUSH PULL Connector



EASY • FAST • SECURE • RELIABLE

Amphenol LTW is excited to introduce the PUSH PULL version of the NMEA 2000 Connector. Thanks to a unique patent, this PUSH PULL NMEA 2000 connector is completely backward compatible with all female M12*1.0 sockets. With its innovative design, users receive audible feedback as they connect it, speeding up deployment significantly. Unlike traditional screw couplings requiring multiple rotations to secure, this design requires just one push. This ensures protection against water and dust, making the NMEA 2000 PUSH PULL connectors an optimal solution for the marine market.

PERFORMANCE SPECIFICATIONS

- One simple Push-to-Plug and Pull-to-Unplug
- Saving on-site installation time & costs
- Direct-connect with existing socket, no need to buy a mating pair from ALTW
- Durability: 500 cycles
- Salt spray: 48h
- Meets IP68 ingress protection
- Available in straight and right angle

Get Sample Now



Product Range Overview

SUB SERIES	Lite (Micro)	Heavy (Mini)	
Mating Style	Push Pull, Screw Thread	Screw Thread	
Plastic Version	\checkmark	-	
Metal Version	\checkmark	\checkmark	
No. of Contacts	5	4 ~ 5	
Plating of Contacts	Gold Plating	Gold Plating	
Operating Voltage (AC/DC)	60V	600V	
Nominal Current	4A	8A	
Operating Temperature	Receptacle: -40°C ~ 105°C Receptacle With Wire: -20°C ~ 85°C Overmolded With Cable: -20°C ~ 85°C Field Serviceable/Installable: -40°C ~ 105°C		
Fasten Style of Nut	Front	Front	
Receptacle	\checkmark	\checkmark	
Receptacle with Wire	\checkmark	-	
Field Serviceable/Installable	\checkmark	\checkmark	
Overmolded with Cable	\checkmark	\checkmark	
Accessories	\checkmark	\checkmark	
Mating Cycles (Pin Contact)	Push Pull 500 Cycles Screw Thread 1,000 Cycles (IEC 100 Cycles)	1,000 Cycles (IEC 100 Cycles)	
IP Rating	Receptacle, Receptacle With Wires: IP68 (Unmated, 1M / 24h) Field Serviceable/Installable: IP67 (Mated) Overmolded With Cable: IP68 (Mated, 1M / 24h)		
Salt Spray (Connector, Mated)	Metal: 48h (Mated) Plastic: 1,000h (Mated), 48h (Unmated)		
UV Resistant	\checkmark	\checkmark	
Flammability Rating	UL94V-0 UL94HB		
Vibration Resistant	Frequency Range 10 ~ 500Hz / Amplitude 0.35mm		
ROSH Compliant	\checkmark	\checkmark	
REACH Compliant	\checkmark	\checkmark	
Certificates	NMEA 2000 *Push Pull Version: In Progress	NMEA 2000	
Applicable Wire Gauge	16AWG (1.50mm²)*1P + 20AWG (0.50mm²)*1P 18AWG (0.75mm²)*1P + 22AWG (0.34mm²)*1P 22AWG (0.34mm²)*1P + 24AWG (0.24mm²)*1P	15AWG (1.62mm ²)*1P + 18AWG (0.75mm ²)*1P 16AWG (1.50mm ²)*1P + 18AWG (0.75mm ²)*1P	

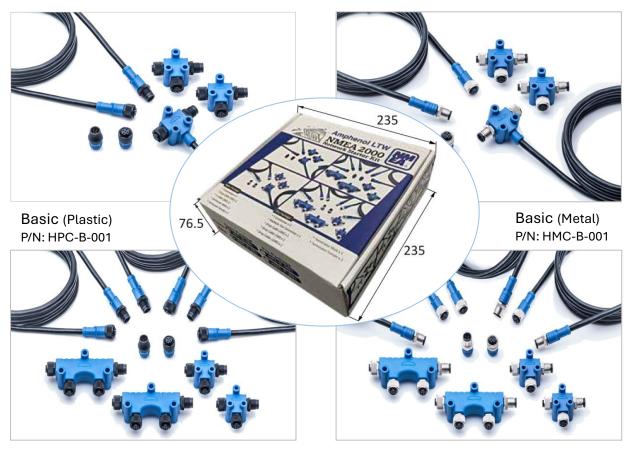
Panel Cut Out

(unit: mm)

	✓ Screw Threaded	Male / Female	Double-Ended
	✓ Push Pull	13.6	
	- Push Lock		
	✓ Metal	<u>+</u> <u>+</u> - <u>+</u> <u>15.4</u>	- () -
	- Plastic		
			1
	✓ Screw Threaded	Male	Female
Lite	- Push Pull	10.50	13.6
(Micro)	- Push Lock		
	- Metal		
	✓ Plastic		
		'	
	- Screw Threaded		
	- Push Pull		13.5±0.1 14.2±0.1
	✓ Push Lock	Circular Flange (D Cut) Male / Female	- 24
		wate y remate	+·-·-}
	✓ Metal		
	✓ Plastic		* Upon request
	✓ Screw Threaded	4	
	- Push Pull		
Heavy	- Push Lock	\square	_}
(Mini)			
	✓ Metal	\searrow	Уø 22.2
	- Plastic		

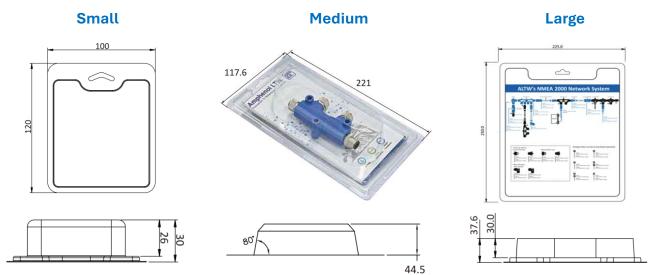


Retail Box Packing



Pro (Plastic) P/N: HPC-P-001 Pro (Metal) P/N: HMC-P-001

Blister Packing





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