

Amphenol Marine Market



Lighting System



Autopilot System



CCTV



Radar



Sonar



Heater












Audio System













Outboard Motor



Marine Focus

	Pin Number	Current Rating	Operating Temperature	IP Rating	Certification/Compliance
	G8 2-6P M8 3-4P M10.5 2-5P M12 A Code: 3-12P / B Code: 3-5P / D Code: 3-5P / I Code: 5P / S & T Code: 4P / X Code: 8P HDSC 2-14P M23 9P	G8 5-6P: 1.5A / 2-4P: 3A M8 3A M10.5 2A M12 A Code 10, 12P: 1.5A / 6, 8P: 2A M12 A, B, D Code 3, 4, 5P: 4A / I Code: 4A / S&T Code: 12A / X Code: 0.5A HDSC 10, 12, 14P: 5A / 4, 5, 7P: 10A 2, 3P: 20A M23 25A	Panel -40°C→+105°C FI -40°C→+105°C Overmolded PVC: -20°C→+80°C / PUR: -20°C→+85°C	Receptacle (unrated) IP68 / IP69K Overmolded with cable (mated) IP65 / IP68	RoHS / REACH M12 - IEC 61078-2-101, IEC 61078-2-109 (X-code) M8 - IEC 61078-2-104, IEC 61078-2-111 (S & T-code)
	2-6P	Q8D 2, 3, 4P: 5A Q8U 5, 6P: 2A Q8DU 2+3P: 5A+2A	Receptacle -40°C-105°C Overmolded with Cable -40°C-105°C	Receptacle / Overmolded with cable (mated) IP68	RoHS / REACH / UL2238 (Outdoor Use, UL50e)
	Mini Size (A) 2-6P Standard Size (B) 2-12P Middle Size (C) 2-18P Large Size (D) 2-22P Macro Size 31P	Mini Size (AU) (ASU) 4-6P: 2A / (AD) 2-3P: 5A / (ASD) 2P: 5A Standard Size (BU) (BSU) 10, 12P: 2A / (SD) 2-6P: 5A / (BSD) 4-8P: 5A / (BB) 2-4P: 10A / (BSB) 4P: 10A / (BDU) 8P: 5A+2A / (BBD) 6P: 10A+5A Middle Size (CU) 18P: 2A / (CD) 7, 8, 9, 10, 12, 14P: 5A / (CB) 4-6P: 10A / (CC) 2-3P: 20A / (CDU) 12, 14P: 5A+2A / (CBD) 8P: 10A+5A / (CUB) 8P: 10A+2A Large Size (DU) 20-22P: 2A / (DD) (DSD) 18P: 5A / (DC) 2-7P: 20A / (DCU) 8P: 20A+2A / (DCD) 12P: 20A+6A Macro Size (ED) 31P: 5A Other Size (CBD) 8P: 10A+5A / (MAB) 4P: 10A / (PLD) 2-4P: 5A	Receptacle -40°C-105°C Receptacle with cable -30°C-80°C Overmolded with Cable -20°C-60°C Field Installable -40°C-105°C	Receptacle (unrated) IP67 Overmolded with cable (mated) IP66 / IP67 Field Installable (mated) IP67	RoHS / REACH
	Standard Size (B) 2-8P Middle Size (C) 2-12P Large Size (D) 2-18P	Standard Size Data (BD) 2-8P: 5A / (BB) 2-4P: 10A / Power (BD) 3P: 5A / (BB) 2-4P: 10A / Hybrid (BBD) 3-6P: 10A+5A Middle Size Data (CD) 7, 8, 9, 10, 12P: 5A / (CB) 4-6P: 10A / Power (CC) 2-3P: 20A / Hybrid (CRD) 4-8P: 10A+5A Large Size Data (DD) 12, 14, 18P: 5A / Power (DC) 2, 3, 5P: 20A / Hybrid (DCD) 4-12P: 20A+5A	Receptacle -40°C-105°C Overmolded With Cable Date Group: -20°C-80°C / Power Group: -20°C-105°C / Hybrid Group: -40°C-105°C Field Installable -40°C-105°C	Receptacle (unrated) IP68 Overmolded with cable/Field Installable (mated) IP67	RoHS / REACH / CSA / UL1977 / UL2238 / UL50e
	Middle Size (C) 2-6P Large Size (D) 2-18P	Middle Size (CD) 2-9P: 5A / (CB) 2-4P: 10A Large Size (DD) 10, 12, 14, 18P: 5A / (DC) 2-4P: 20A	Receptacle with Wire Harness -40°C - 105°C Overmolded with Cable -20°C - 80°C Field Installable -40°C - 105°C	Receptacle (unrated) IP67 Overmolded with cable/Field Installable (mated) IP67	RoHS / REACH
	PWE 5-7P / PWF 2-4P / PWG 4P / PWC 3P / PWH 3, 5P / PWCU 4, 12P / PWL 3P / PWJ 3P	PWE 5-7P: 5A / PWF 2-4P: 12A / PWG 4P: 18A / PWC 3P: 20A / PWH 3, 5P: 25A / PWCU 4, 12P: 20A+2A / PWL 3P: 30A / PWJ 3P: 30A	Receptacle -40°C - 105°C Overmolded with Cable -20°C - 80°C Field Installable -40°C - 105°C	Receptacle (unrated) IP67 / (mated) IP68 Overmolded with cable (mated) IP67 Field Installable IP67 / (mated) IP68	RoHS / REACH / UL1977
	USB 2.0: Type A, B / 3.0: Type A / 3.1: Type C Mini USB2.0 Type B	USB 2.0: 1.5A / 3.0: 1A USB Type C 3.1 3A Micro USB 1P, 5P: 1.8A / 2P, 3P, 4P: 1A	Receptacle Nylon-GF: -40°C-105°C / N-PPF: -40°C-105°C / ABS: 20°C-80°C Receptacle with Cable Nylon-GF: -20°C-105°C / ABS: -20°C-80°C Overmolded with Cable -20°C-60°C	USB Receptacle (unrated) IP68 Overmolded with cable: (mated) IP67 Field Installable (mated) IP68 Mini USB Receptacle (unrated) IP67 Overmolded with cable / Field Installable (mated) IP67 Micro USB (unrated) IP68	RoHS / REACH
	19, 23, 25, 29P	1.5A	Receptacle -20°C-80°C Overmolded with Cable -20°C-80°C	Receptacle (unrated) IP68 Overmolded with cable (mated) IP67	RoHS / REACH
	Standard 9, 15, 25, 37, 50P High Density 15, 26, 44, 62, 78P	Standard 5A High Density 2A	Receptacle -40°C-105°C Overmolded with Cable -20°C-80°C Field Installable -40°C-105°C	Receptacle (unrated) IP68 Overmolded with cable / Field Installable (mated) IP67	RoHS / REACH

	Pin Number	Current Rating	Operating Temperature	IP Rating	Certification/ Compliance
	19P	0.5A	Receptacle -20°C -80°C Overmolded with Cable -20°C -80°C	Receptacle (unmated) IP67 Overmolded with cable (mated) IP67	RoHS / REACH
HDMI					
	N/A	2A	Receptacle -20°C - 80°C Coupler -40°C - 105°C Overmolded With Cable -20°C - 80°C Field Installable -40°C - 105°C	Receptacle (unmated) IP67 Overmolded with cable/Field Installable (mated) IP67	RoHS / REACH / Meets ODVA / Profinet / TIA / EIA-568
RJ45					
	N/A	N/A	-40°C → 125°C	IP68 / IP69K	RoHS / REACH / GB/T 2423.16 (Fungus)
Vent					
	N/A	N/A	-40°C → 125°C	Receptacle (unmated) IP68	RoHS / REACH / ML-C-39012
RF					
	PG11, PGT2 2, 3, 4P PG12, 13 2, 3, 4, 5P	PG11 2, 3, 4P; 20 PG12, 13, PGT2 2,3P; 20A / 4P; 15A	-40°C → 105°C	Field Installable (mated) - IP68	RoHS / REACH / UL2238 / TUV
FICX					
	N/A	N/A	-20°C → 105°C	Field Installable (mated) IP68	RoHS / REACH
CABLE GLAND					
	2, 4P	SSL1.2 5A per pin	-40°C → 105°C	(mated) IP68	RoHS / REACH / UL1977 / CSA C22.2 / cUL / UL 2238 + UL50e
SSL1.2					
	N/A	Forward current: 20-35mA Max	-40°C → 80°C	(unmated) IP67	RoHS / REACH
LED Indicator					
	Trunk Cable 3P Drop Cable 3P Connector 3P	Trunk 20A Drop 5A Connector 5A	-20°C → 80°C	Waterproof IP67 Non-Waterproof	N/A
Tee Cable and Connectors					
	5P	Micro 4A Mini 8A	Panel -40°C → 85°C FI -40°C → 105°C Overmolded PVC: -20°C → 80°C / PUR: -20°C → 85°C	Field Installable (unmated) IP67 Overmolded with cable / Receptacle (mated) IP68	RoHS / REACH / NMEA 2000
NMEA 2000					

Marine Applications

Amphenol Corp is the world's leader in interconnects solutions and your ideal choice for satellite radio and communication devices, multimedia displays, security systems on yachts, fishing boats, commercial ships, tankers, LNG ships, ferries, cruises...

Amphenol LTW Intelligent Pre-Cabling Systems (IPCS) not only can solve your marine

Application	M series	HS-Lok	Circular	X-Lok	RBL
Multi Function Display	✓		✓	✓	✓
Outboard Motor	✓		✓	✓	✓
Bilge Pump	✓		✓	✓	✓
Heater	✓	✓	✓	✓	✓
Heat Ventilation and Air Conditioning	✓	✓	✓	✓	✓
Fridge	✓	✓	✓	✓	✓
Docking System	✓		✓	✓	✓
Windlass	✓		✓	✓	✓
Sensors	✓		✓	✓	✓
Sonar	✓		✓	✓	✓
GPS	✓	✓	✓	✓	✓
Radar	✓	✓	✓	✓	✓
Antenna	✓	✓			
USB Charger	✓	✓	✓	✓	✓
Audio System	✓	✓	✓	✓	✓
Lighting System	✓	✓	✓	✓	✓
CCTV	✓	✓	✓	✓	✓
Power Controller	✓		✓	✓	✓
Autopilot System	✓		✓	✓	✓
Automatic Identification System	✓	✓	✓	✓	✓

Amphenol Marine Market

choice for marine electronic and electrical equipment. From motors, engines, transducers, Sensors, electrical systems, entertainment systems, HVAC to LED lighting...you can

needs for electrical and electronic cabling system but most importantly helps you CUT a

	POWER	USB/ Micro USB	DVI	D-SUB	HDMI	RJ45	Vent
	✓	✓	✓	✓	✓	✓	✓
	✓						
	✓						
	✓					✓	✓
	✓					✓	✓
	✓						
		✓				✓	
		✓				✓	
		✓				✓	
	✓	✓		✓	✓	✓	✓
	✓	✓		✓	✓	✓	✓
		✓	✓	✓	✓	✓	
	✓						✓
			✓	✓	✓		✓
			✓	✓	✓	✓	✓

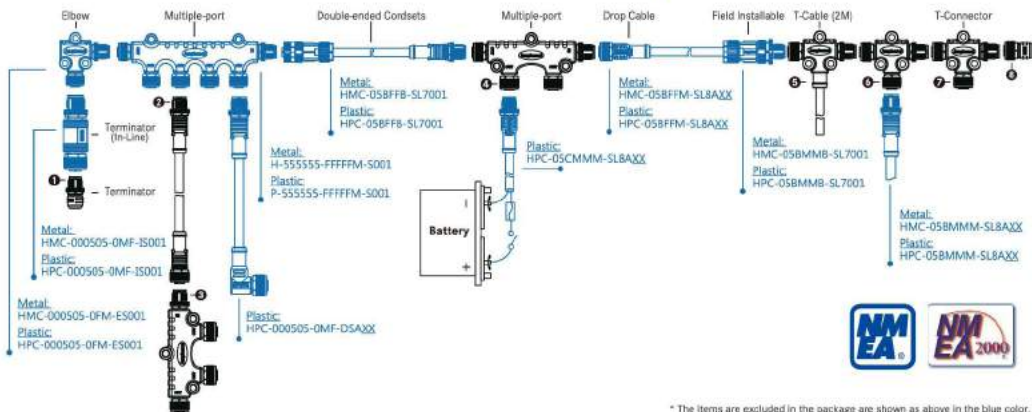
er, radar, echo-sounder, fish finder, deep sea vessels autopilot, chart plotter, VHF,
 n always find suitable products and solutions. Whether you build small boats,

and SAVE from 30% to 90% of your installation TIME and COST.

RF	FICX	CABLE GLAND	SSL1.2	LED Indicator	Tee Cable and Connectors	NMEA 2000
✓				✓		✓
		✓	✓			✓
		✓		✓	✓	✓
✓	✓	✓		✓	✓	✓
✓	✓	✓		✓	✓	✓
						✓
		✓	✓	✓	✓	✓
		✓	✓	✓		✓
				✓		✓
			✓	✓		✓
			✓	✓		✓
				✓		✓
✓						✓
	✓		✓	✓		✓
	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓
			✓	✓	✓	✓
	✓	✓		✓		✓
			✓	✓		✓
✓			✓	✓		✓

Introducing the new network system - NMEA 2000, designed to meet the NMEA 2000 protocols standard for connecting marine electronic equipment, display units within ships and boats that helps to build a connection among the multiple electronic devices to share data over one common channel.

ALTW's NMEA 2000 Network System



* The items are excluded in the package are shown as above in the blue color.

NMEA 2000 Starter Kit

Now, it also can be purchased in two kinds of package. The basic package, which can help you to build a fundamental network of NMEA 2000 on your boat; the professional package provides the high-performance on the integrated circuit and branches off the comprehensive devices.



HPC-B-001 (Plastic)



HMC-B-001 (Metal)



HPC-P-001 (Plastic)



HMC-P-001 (Metal)

Basic Package

- T-Connector x 2
- Drop Cable (2M) x 1
- T-Cable (2M) x 1
- Terminator Male x 1
- Terminator Female x 1

Pro Package

- T-Connector x 2
- Multiple Tee Connector x 2
- Drop Cable (2M) x 1
- Drop Cable (5M) x 1
- Drop Cable (10M) x 1
- Terminator Male x 1
- Terminator Female x 1

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