



M12 90° Receptacles

M12 90° Receptacles are available in both plastic and die-cast versions. Designed with boardlock, the connectors secure connection to Printed Circuit Board.

Specifications:

MECHANICAL	Pin Configuration:	5 Contacts
	Contact Housing Mat'l:	Nylon+GF
	Contact Mat'l:	Copper Alloy, Gold Plated
ELECTRICAL	Housing Mat'l:	Nylon+GF / Zinc Alloy, Nickel Plated
	Rated Current:	4.0 Amps
ENVIRONMENTAL	Rated Voltage:	250V
	Protection Class:	IEC IP67 (mated)
	Temperature Range:	-40°C ~ 105°C

Products:

P/N	Version	Description
56055105-24	Plastic	5Pin Male Conn, 90°
54055105-24	Metal	
56056105-24	Plastic	5Pin Female Conn, 90°
54056105-24	Metal	



■ Single & Double-Ended Cordsets

Rugged, compact, sealed connectors used for trunk or drop lines. It comes in a range of lengths to match any marine installation requirements.

■ Specifications:

MECHANICAL	Pin Configuration: Contact Housing Mat'l: Overmoulding Mat'l: Contact Mat'l: Screw Nut Mat'l:	5 Contacts TPU+GF, Green TPU, Black Copper Alloy, Gold Plated Zinc Alloy, Nickel Plated / Nylon+GF
ELECTRICAL	Rated Current: Rated Voltage:	4.0 Amps 250V
CABLE	Outer Jacket Mat'l: Conductor Insulation Mat'l: No. of Conductors: Shielding (3-Levels):	PVC, Gray FPE (data), PVC (power) 1PX22 AWG, 1PX24 AWG, 22 AWG Drain Wire Braid (Overall), Al/My (Power), Al/My (Data)
ENVIRONMENTAL	Protection Class: Temperature Range:	IEC IP67 (mated) -20°C ~ 80°C
APPROVALS	Flame Test (Cable): Suitability:	UL1685 FT4 (UL), FT4 (CSA) Sunlight & Oil Resistance

■ Products:

P/N	Version	Description
94051103-31-3XX	Plastic	5Pin Male Cordset, Single-Ended
54051103-01-2XX	Metal	
94054103-31-3XX	Plastic	5Pin Female Cordset, Single-Ended
54054103-01-2XX	Metal	
94057108-31-3XX	Plastic	5Pin M to M Cordset, Double-Ended
54057108-01-2XX	Metal	
94059108-31-3XX	Plastic	5Pin F to F Cordset, Double-Ended
54059108-01-2XX	Metal	
94058108-31-3XX	Plastic	5Pin F to M Cordset, Double-Ended
54058108-01-2XX	Metal	

Note : XX-denotes Cable length in Meters (m)



T-Cable Assy

Connected at the central part of the system, the T-Cable assy is designed to prevent errors in connecting power or network cables and provides easy installation.

Specifications:

MECHANICAL	Pin Configuration:	5 Contacts
	Contact Housing Mat'l:	TPU+GF, Green
ELECTRICAL	Overmoulding Mat'l:	TPU, Black
	Contact Mat'l:	Copper Alloy, Gold Plated
CABLE	Screw Nut Mat'l:	Zinc Alloy, Nickel Plated / Nylon+GF
	Rated Current:	4.0 Amps
ENVIRONMENTAL	Rated Voltage:	250V
	Outer Jacket Mat'l:	PVC, Gray
APPROVALS	Conductor Insulation Mat'l:	FPE (data), PVC (power)
	No. of Conductors:	1PX22 AWG, 1PX24 AWG, 22 AWG Drain Wire
ENVIRONMENTAL	Shielding (3-Levels):	Braid (Overall), Al/My (Power), Al/My (Data)
	Protection Class:	IEC IP67 (mated)
ENVIRONMENTAL	Temperature Range:	-20°C ~ 80°C
	Flame Test (Cable):	UL1685 FT4 (UL), FT4 (CSA)
APPROVALS	Suitability:	Sunlight & Oil Resistance

Products:

P/N	Version	Description
94050122-31-3XX	Plastic	5Pin Male-Female T-Cable Assy
54050122-01-2XX	Metal	
94057122-31-3XX	Plastic	5Pin Male-Male T-Cable Assy
54057122-01-2XX	Metal	
94059122-31-3XX	Plastic	5Pin FeMale-FeMale T-Cable Assy
54059122-01-2XX	Metal	

Note : XX-denotes Cable length in Meters (m)



Field Installable Connectors

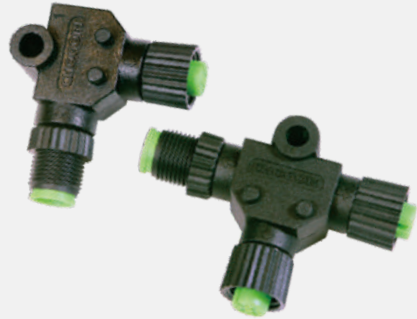
Like the cordsets, the trunk or backbone cables can also be created by running bulk cable using field installable connectors which are available in Male/Female versions. Using screw-in termination, the clamping parts are designed to yield to tensile stress when tightening the terminal screws.

Specifications:

MECHANICAL	Pin Configuration: Contact Housing Mat'l: Contact Mat'l: Screw Nut Mat'l: Max Wire Size: Cable Range:	5 Contacts Nylon+GF, Black Copper Alloy, Gold Plated Zinc Alloy, Nickel Plated / Nylon+GF 0.75mm ² (18AWG) 4-6mm / 6-8mm
ELECTRICAL	Rated Current: Rated Voltage:	4.0 Amps 30V AC / 36V DC
ENVIRONMENTAL	Protection Class: Temperature Range:	IEC IP67 (mated) -40°C ~ 85°C

Products:

P/N	Version	Description
54051101-01	Plastic	5Pin Male Field Installable Conn, Screw-In, 180°
94051101-32	Metal	
54054101-01	Plastic	5Pin FeMale Field Installable Conn, Screw-In, 180°
94054101-32	Metal	



T-Adaptor / Elbow Adaptor

The T-Adaptor is required for adding components to NMEA 2000 network. It is installed on the backbone cable and uses one end of the T-Connector for the drop cable. With two female and one male connector, it can be easily connected to micro cordsets available in various lengths.

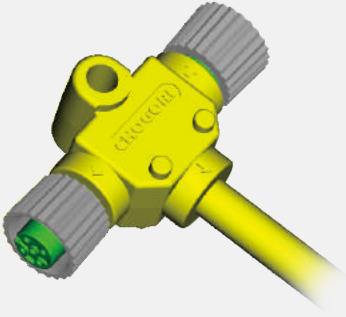
Also available in Elbow-designed adaptor used in spots where it is impossible to bend a cordset around tight corners. It easily connects to a tee or double-ended cordsets making 90° turns practical at the end or anywhere along the system.

Specifications:

MECHANICAL	Pin Configuration: Contact Housing Mat'l: Overmoulding Mat'l: Contact Mat'l: Screw Nut Mat'l:	5 Contacts TPU+GF, Green TPU, Black Copper Alloy, Gold Plated Zinc Alloy, Nickel Plated / Nylon+GF
ELECTRICAL	Rated Current: Rated Voltage:	4.0 Amps 60V
ENVIRONMENTAL	Protection Class: Temperature Range:	IEC IP67 (mated) -20°C ~ 80°C

Products:

P/N	Version	Description
94050118-31	Plastic	5Pin M-F-F T-Adaptor
54050118-01	Metal	
94058111-32	Plastic	5Pin M-F Elbow Adaptor
54058111-01	Metal	



■ Powertap Tee

The Powertap tee provides bus power to NMEA 2000 network. Consists of Female connectors on both L and R, this rugged IP67 cable connector allows easy and secure connections.

■ Specifications:

MECHANICAL	Pin Configuration:	5 Contacts
	Contact Housing Mat'l:	TPU+GF, Green
	Overmoulding Mat'l:	TPU, Yellow
	Contact Mat'l:	Copper Alloy, Gold Plated
	Screw Nut Mat'l:	Zinc Alloy, Nickel Plated / Nylon+GF
	Outer Jacket Mat'l:	PVC
	Number of Conductors:	5X22 AWG
ELECTRICAL	Rated Current:	4.0 Amps
	Rated Voltage:	250V
ENVIRONMENTAL	Protection Class:	IEC IP67 (mated)
	Temperature Range:	-20°C ~ 80°C

■ Products:

P/N	Version	Description
94054122-31-3XX	Plastic	5Pin Female-Female Power Tap Tee
54054122-01-0XX	Metal	

Note : XX-denotes Cable length in Meters (m)



Termination Resistors

The NMEA 2000 network must be provided with a terminating resistor at both ends of the trunk lines in order to avoid signal reflection. For reliable and secured connections, connectors are designed with a rugged screw lock mechanism. In-Line Termination Resistor is also available as an option.

Specifications:

MECHANICAL	Pin Configuration: Contact Housing Mat'l: Contact Mat'l: Screw Nut Mat'l:	5 Contacts TPU+GF, Green Copper Alloy, Gold Plated Zinc Alloy, Nickel Plated / Nylon+GF
ELECTRICAL	Rated Voltage: Internal Resistor:	10-30V 120 Ohms (1/4 W)
ENVIRONMENTAL	Protection Class: Temperature Range:	IEC IP67 (mated) -20°C ~ 80°C

Products:

P/N	Version	Description
94051103-32	Plastic	5Pin Male Termination Resistor
54051103-22	Metal	
94054103-32	Plastic	5Pin Female Termination Resistor
54054103-22	Metal	
94058108-31	Plastic	In-Line Termination Resistor
54058108-01	Metal	