

CIRCULAR CONNECTORS

M8 - M40, POWER - SIGNAL - ETHERNET



WHY CHOOSE SEALCON AS YOUR CONNECTIVITY PARTNER?

Sealcon was founded in the winter of 1989 in Englewood, Colorado. Our goal is to provide customers with the best possible cable management and connectivity solutions. We are proud to represent Hummel, a leading German manufacturer, as the exclusive North American & Mexico importer of Liquid Tight Strain Relief Fittings, Cord Grips, Cable Glands, Circular Connectors, Flexible Conduit, and other cable and wire accessory products. Our large \$2+ Million modular inventory makes it easy to take care of all of your cable management needs. Call today for your solution!

Sealcon offers a vast portfolio of circular connectors to meet your requirements. Options are available in many sizes from M8, M12, M16, M23, M27, M40 addressing Cordset, Signal, Power, Ethernet, PoE and Hybrid varieties.

We can usually ship your order within 24 hours from our central warehouse in Colorado. We replenish our inventory weekly and can respond to changing demands quickly. Our experienced technical sales staff will help to answer any technical questions and are able to recommend the correct products for your applications.

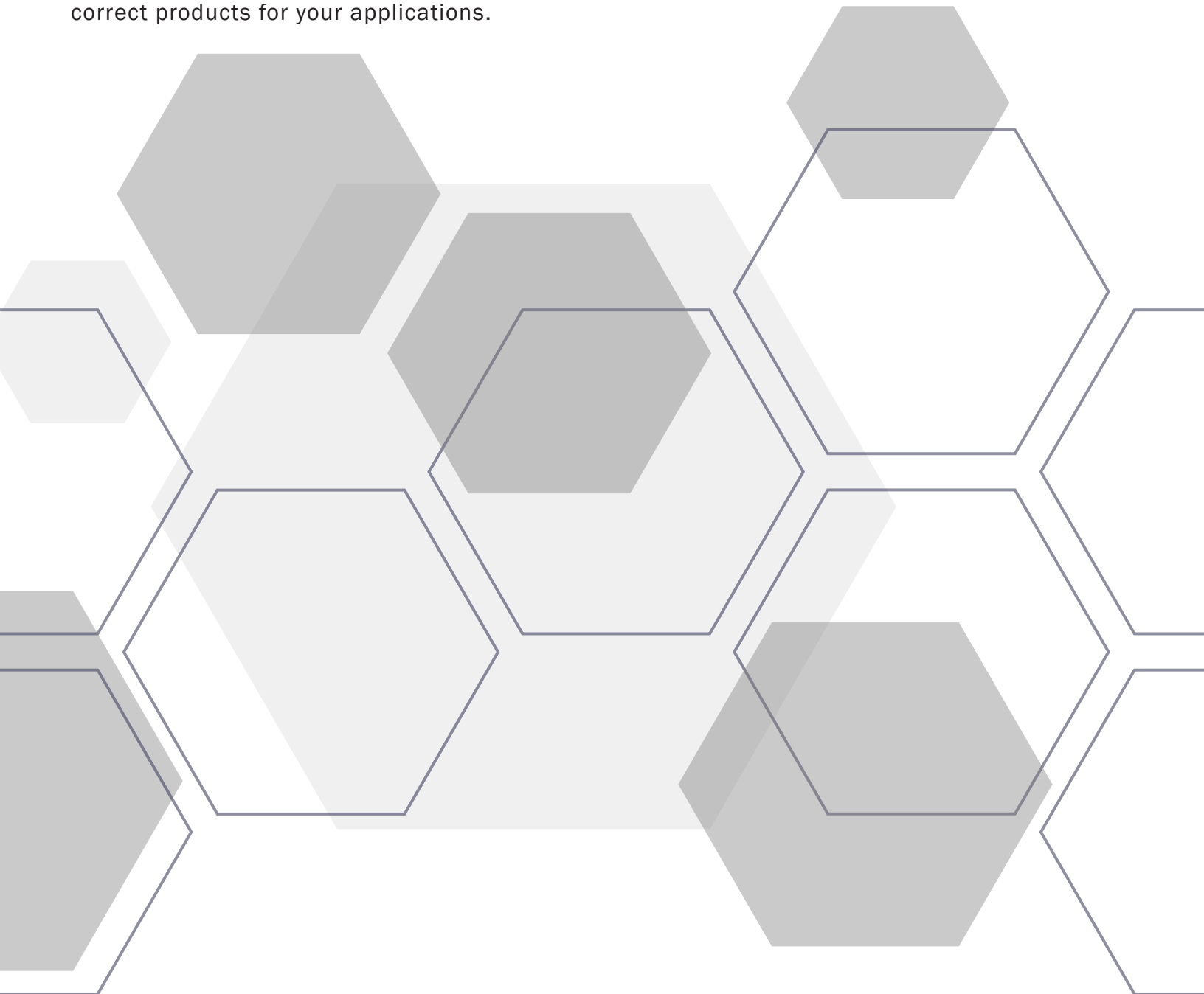


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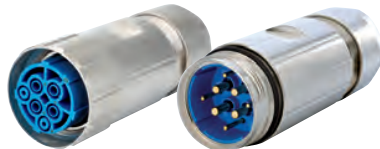
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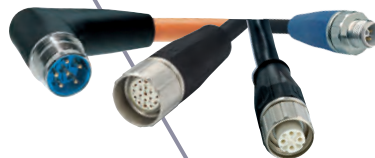
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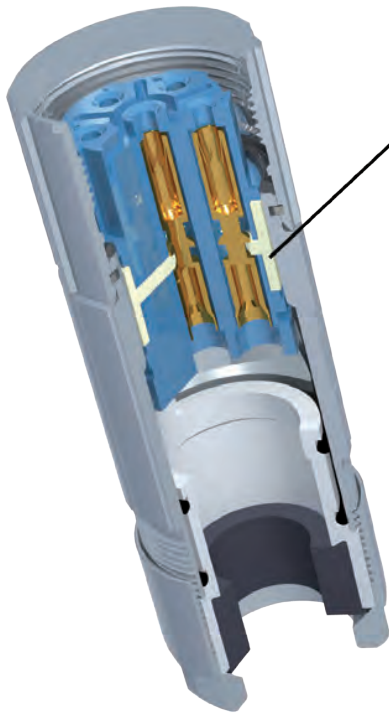
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PATENTED EURO-LOCK SYSTEM



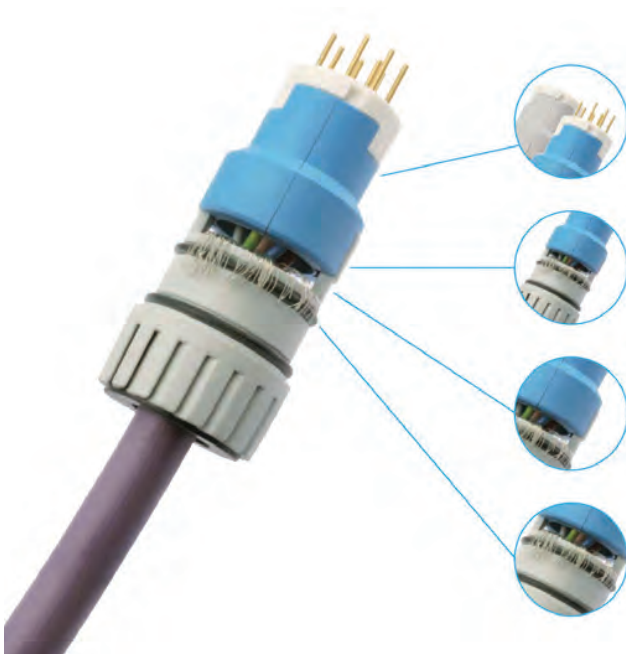
Euro-Locking Clip secures contact within the insert. Vibration Safe!

Quick & Easy Assembly of Contacts! No Special Insertion/Removal Tools Required!

Simple unlocking & disassembly of contact.

CONNECTOR FEATURES + BENEFITS

- Clear and modular structure of all connector series.
- Patented modular strain relief insert and contact insert.
- Simple EMI/RFI shielding during assembly.
- Modular design for quick, simple and reliable assembly.



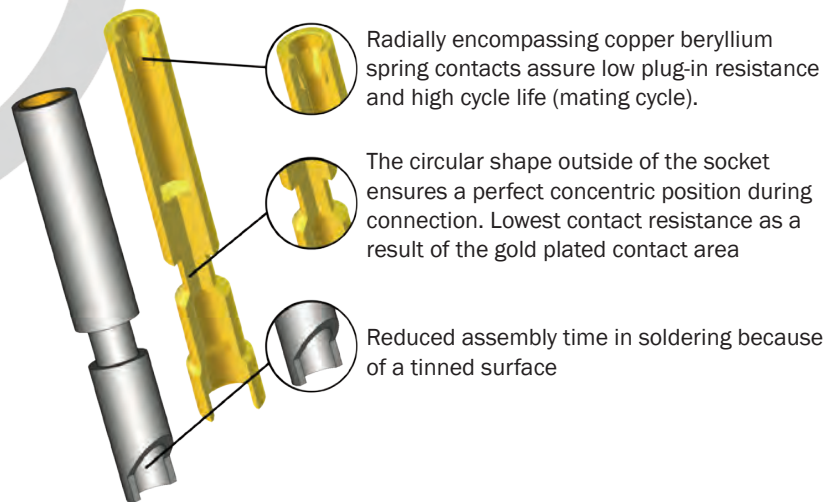
Spacers feature color coding to identify male and female inserts.

Cable assembly and shielding is possible in a single operation.

Strain relief insert with locking mechanism prevents cable rotation.

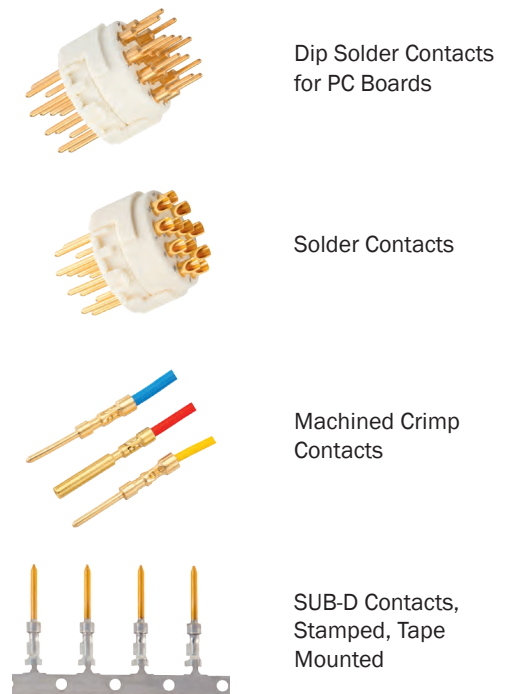
Flexible EMI O-Ring guarantees reliable EMI/RFI protection for light and heavy braided shields.

SLS (SPRING LOADED SOCKETS)



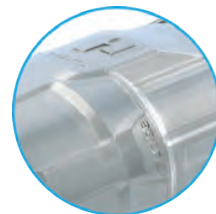
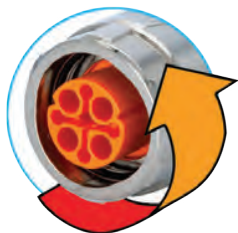
- Integrated Radial Spring in Socket Mates with Pin
- SLS Technology Enhances Electrical Performance
- Allowing for the Ultimate Mating Reliability

Connector Contact Options



TWILOCK (QUICK DISCONNECT)

- Dual-Function Female connector allows mating to both Threaded & Twilock Male connectors.
- Proprietary smooth action “1/4 Turn Lock” connector system.
- Female connector housings clearly marked with OPEN/CLOSED positions.
- Available in Sealcon M16 & M23 connector sizes.



TWILOCK-S (QUICK DISCONNECT)

- Same features as the TWILOCK above.
- This unique connector is fully Intermateable with both Male & Female SpeedTEC® by Intercontec TE Connectivity connectors.
- Available in Sealcon M23 & M40 connector sizes.

SEALCON CONNECTIVITY

M8 - M40 - POWER, SIGNAL, AND ETHERNET OPTIONS



HOW TO CONFIGURE A SEALCON CONNECTOR

1.



Choose Housing Based on:

1. Signal or Power
2. Style - Straight, Right Angle, Panel Mount
3. Connection System - Threaded, Quick Connect/Twilock, Quick Connect/Twilock-S (Intermateable with SpeedTEC® TE Connectors)
4. Material - Nickel Plated Brass, 316L Stainless Steel
5. Cable Diameter

2.



Choose Contact Insert Based on:

1. Pinout - With or Without Contacts
2. Type Of Contact - Crimp, Solder or Dip Solder

3.



Choose Contact Based on:

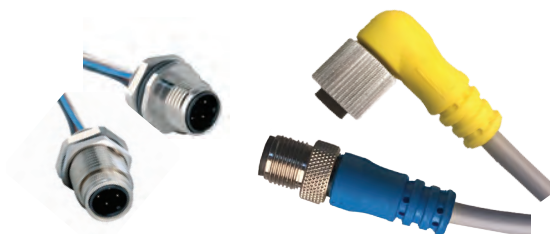
1. Pin or Socket - if Crimp
2. Wire Gauge - AWG

*SOLDER INSERTS HAVE INTEGRATED CONTACTS.
NO SEPARATE PINS OR SOCKETS NEED TO BE ORDERED.

M8 - M12 CORDSETS

LOW VOLTAGE DATA TRANSMISSION

Automation in manufacturing is increasing at the speed of technology. With IIoT and smart machines, durable and reliable connectivity solutions are required to maximize output. Sealcon now offers M12 and M8 cordsets that are ideal for your application and will meet the demands of today's industry trends. With straight male and female, right angle and flying lead cordsets available, numerous options are possible. Whether you are looking for just a few pieces or a few thousand, Sealcon is your supplier.



Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy
Overmold	Thermoplastic Elastomer
Inserts (for contacts)	Nylon PA66 / Glass Fiber
Contacts	Copper-Zinc alloy
Contact surface at point of contact	Nickel and gold plated
Seal / O-Rings	Fluorocarbon
Temperature Range	-22°F – 158°F (-30°C – 70°C) Static operating temperature 23°F – 158°F (-5°C – 70°C) Dynamic operating temperature
Protection	IP 67

Additional Information:

- [M8 CORDSETS](#) (page 8)
- [M12 CORDSETS](#) (pages 9 - 11)
- [M12 PANEL MOUNTS](#) (page 11)

Electrical Data					
Sizing	M8	M12			M12 (Panel Mount)
Number of positions	3	4	5	8	4
Contact-Ø [mm²] (AWG)	0.25 (24)	0.34 (22)	0.34 (22)	0.25 (24)	0.25 (24)
Nominal current [A]	4	4	4	2	4
Nominal voltage [V~] degree of protection 3	60	240	60	30	60
Test voltage (Breakdown voltage) [V~]	1000	1000	1000	1000	1000
Insulation resistance [MΩ]	> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹	> 10 ⁹
Max. contact resistance [mΩ]	-	< 5	< 5	< 5	< 5

SEE TECHNICAL INFORMATION ON PAGE 80

VISIT WWW.SEALCONUSA.COM OR CONTACT US FOR A COMPLETE LIST OF CORDSET OPTIONS AND CONFIGURATIONS AVAILABLE.

*NOTE: CABLE LENGTH INCLUDES CONNECTOR

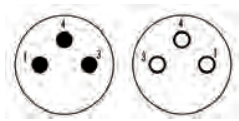


Hundreds of other configurations are available in addition to what is listed in this catalog. Additional lead time may apply. Contact Sealcon for a complete list.

M8 - M12 CORDSETS

M8 CORDSETS

M8 CORDSETS 3 POSITIONS



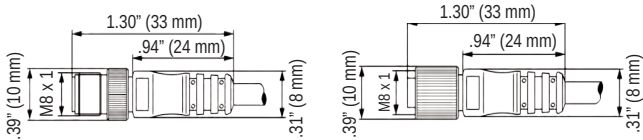
Available in stock with the configurations listed below. Sealcon offers hundreds of other configurations in addition to the ones in this catalog. Longer lead times may apply. Contact Sealcon for a complete list.



*ALSO AVAILABLE IN BLUE, BLACK, AND OTHER CUSTOM COLORS WITH MINIMUM ORDER QUANTITIES.

M8 Straight Cordset, Male & Female Thread, 3-Position

Cable Length	Cable Type	Part Number
5 meter.....	PVC.....	SJFFDFMD03M8050D
2 meter.....	PVC.....	SJFFDFMD03M8020D



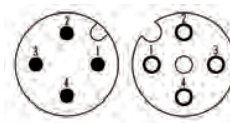
*NOTE: CABLE LENGTH INCLUDES CONNECTOR



M8 - M12 CORDSETS

M12 CORDSETS

M12 CORDSETS 4 POSITIONS, A-CODING



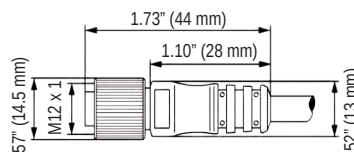
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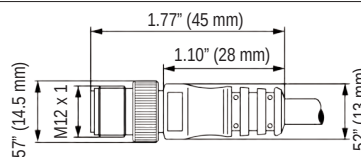
M12 Straight & Flying Lead Cordset, Female Thread, 4-Position

Cable Length	Cable Type	Part Number
5 meter.....	PVC.....	SJFFD04M12050D



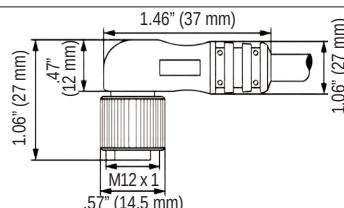
M12 Straight & Flying Lead Cordset, Male Thread, 4-Position

Cable Length	Cable Type	Part Number
5 meter.....	PVC.....	SJFMD04M12050D



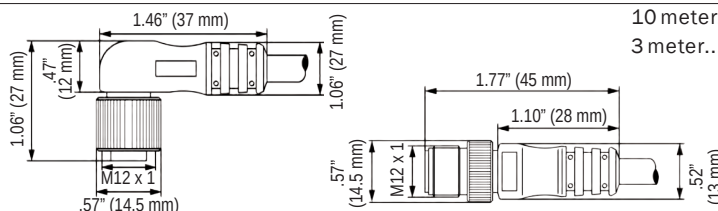
M12 Right Angle & Flying Lead Cordset, Female Thread, 4-Position

Cable Length	Cable Type	Part Number
5 meter.....	PVC.....	SJFFC04M12050D



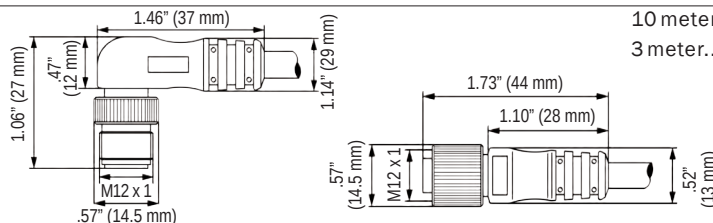
M12 Straight & Right Angle Cordset, Male & Female Thread, 4-Position

Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFCFMD04M12100D
3 meter.....	PVC.....	SJFFCFMD04M12030D



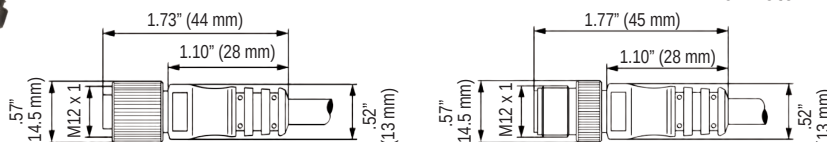
M12 Straight & Right Angle Cordset, Male & Female Thread, 4-Position

Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFDFMC04M12100D
3 meter.....	PVC.....	SJFFDFMC04M12030D



M12 Straight Cordset, Male & Female Thread, 4-Position

Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFDFMD04M12100D
10 meter.....	PUR.....	SJFFDFMD04M12100E

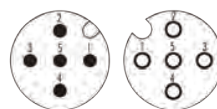


*NOTE: CABLE LENGTH INCLUDES CONNECTOR

M8 - M12 CORDSETS

M12 CORDSETS

M12 CORDSETS 5 POSITIONS, A-CODING

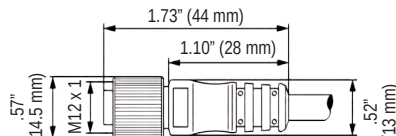


Available in stock with the configurations listed below. Sealcon offers hundreds of other configurations in addition to the ones in this catalog. Longer lead times may apply. Contact Sealcon for a complete list.

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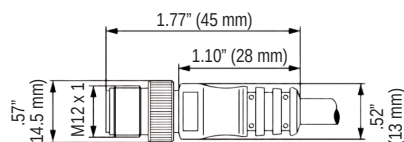


M12 Straight & Flying Lead Cordset, Female Thread, 5-Position



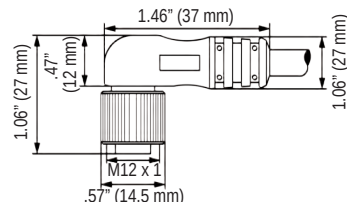
Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFD05M12100D
2 meter.....	PVC.....	SJFFD05M12020D

M12 Straight & Flying Lead Cordset, Male Thread, 5-Position



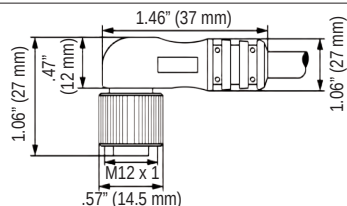
Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFMD05M12100D
2 meter.....	PVC.....	SJFMD05M12020D

M12 Right Angle & Flying Lead Cordset, Female Thread, 5-Position



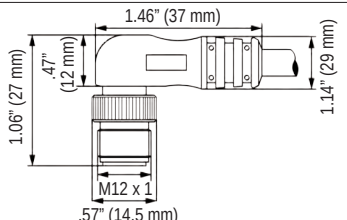
Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFC05M12100D

M12 Straight & Right Angle Cordset, Male & Female Thread, 5-Position



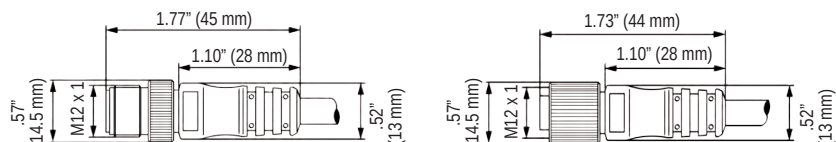
Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFCFMD05M12100D

M12 Straight & Right Angle Cordset, Female & Male Thread, 5-Position



Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFDFMC05M12100D

M12 Straight Cordset, Female & Male Thread, 5-Position



Cable Length	Cable Type	Part Number
10 meter.....	PVC.....	SJFFDFMD05M12100D

* NOTE: CABLE LENGTH INCLUDES CONNECTOR

M8 - M12 CORDSETS

M12 CORDSETS

M12 CORDSETS 8 POSITIONS, A-CODING



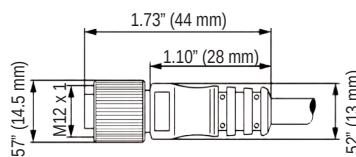
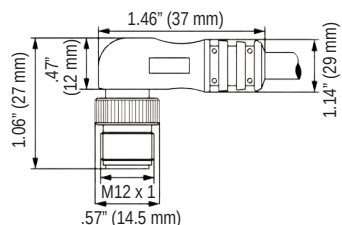
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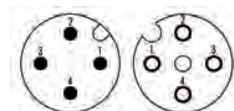


M12 Straight & Right Angle Cordset, Male & Female Thread, 8-Position

Cable Length	Cable Type	Part Number
5 meter.....	PVC.....	SJFFDFMC08M12050D



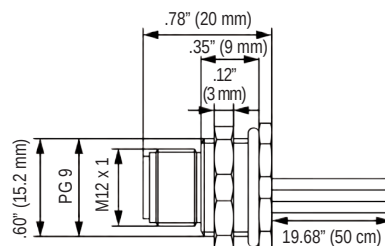
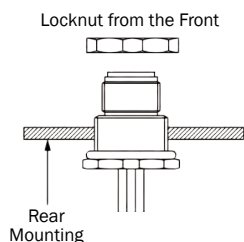
M12 PANEL MOUNTS WITH CABLE 4 POSITIONS, A-CODING



Available in stock with the configurations listed below. Sealcon offers hundreds of other configurations in addition to the ones in this catalog. Longer lead times may apply. Contact Sealcon for a complete list.

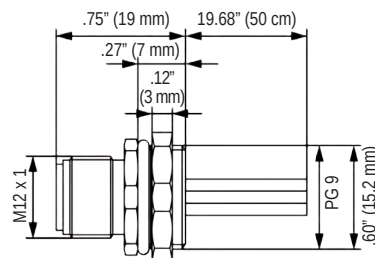
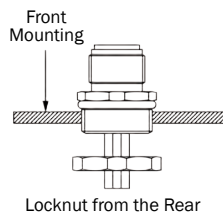
M12 Panel Connector, Single Hole, Rear Mount

Cable Length	Part Number
50 cm.....	SJEM04M12PG9BM50



M12 Panel Connector, Single Hole, Front Mounting

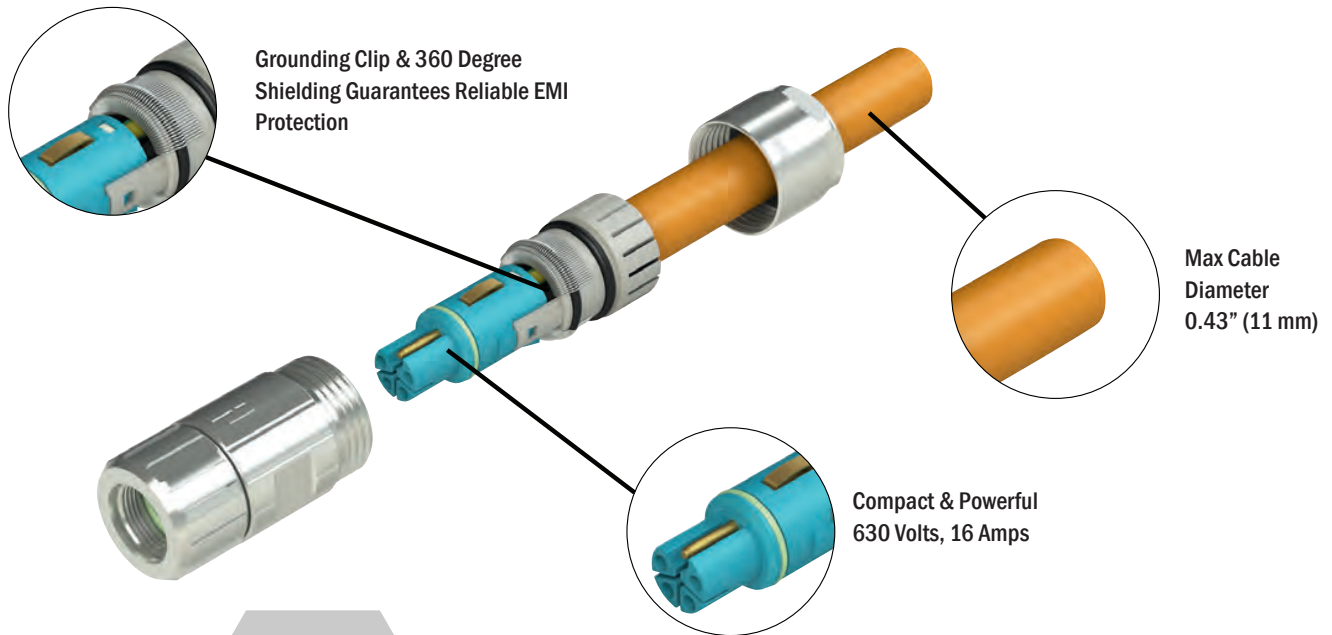
Cable Length	Part Number
50 cm.....	SJEM04M12PG9FM50



*NOTE: CABLE LENGTH INCLUDES CONNECTOR

M12 POWER CIRCULAR CONNECTOR APPLICATIONS

- Small Motors & Encoders
- Instrumentation
- Small Tools & Welding
- Lighting
- Material Handling
- Consulting & Design
- Packaging Machinery
- Medical Equipment
- Heating



M12 POWER CONNECTOR

COMPACT AND POWERFUL

A major milestone in an age of miniaturization: the M12 Power connector. In the past, circular connectors have required a large footprint in order to carry large currents, but not anymore. With a compact size, large temperature extremes, and the capability of carrying up to 630 Volts and 16 Amps, this compact connector solves space requirement issues in today's automation industry. EMI ready options!



Mechanical Data	Materials and Technical Data
Housing	Brass / Die Cast Stainless Steel 316L
Housing surface	Nickel plated Other Surfaces Upon Request
Inserts	PBT Fire protection class V-0
Contacts	Copper alloy / Brass
Contact surface at point of contact	Gold plated
Minimum mating cycles	> 100 (Sealcon to Sealcon connector)
Seals / O-Rings	Buna-N (Black) / FKM (Green) / HNBR (Black)
Temperature range	-40 °F - 257 °F (-40 °C - 125 °C) (K + L) -40 °F - 185 °F (-40 °C - 85 °C) (S + T)
Type of contacts	Crimp K + L, Screw S + T
Protection	IP 67/ IP 69K
Cable diameter range	.11 - .43" (3 - 11 mm)

Components Needed For A Complete M12 Power Connector:

- **HOUSING** (pages 14 - 16)
 - **INSERT** (page 17)
 - **CONTACTS** (if crimp contact insert is selected) (page 17)
- *S+T CODINGS REQUIRE FERRULES FOR INSTALLATION

Electrical Data				
Coding	S (Screw)	T (Screw)	K (Crimp)	L (Crimp)
Colors	Black	Dark Gray	Blue	Gray
Number of positions	4 (3 + PE)	4	5 (4 + PE)	5 (4 + PE)
Power Applications	AC	DC	AC	DC
[mm ²] (AWG)	0.5 - 1.5 mm ² (AWG 20 - 16)	0.5 - 1.5 mm ² (AWG 20 - 16)	0.75 - 2.5 mm ² (AWG 18 - 14)	0.75 - 2.5 mm ² (AWG 18 - 14)
Nominal current [A]	12	12	16	16
Nominal voltage [V~] degree of protection 3	630	63	630	63
Test voltage (Breakdown voltage) [V~]	3310	840	3310	840
Insulation resistance [MΩ]	> 10 ²	> 10 ²	> 10 ²	> 10 ²
Max. contact resistance [mΩ]	< 3	< 3	< 3	< 3

NOMINAL CURRENT: Allowable current (Amp), that can be transmitted by each contact continuously and simultaneously.

NOMINAL VOLTAGE: Allowable voltage (Volt), that can be applied to each contact continuously and simultaneously.

TEST VOLTAGE: Voltage which, under certain conditions, a connector can be exposed to without breakdown.

DEGREE OF PROTECTION: Potential dirt accumulation of a disconnected connector in a certain environment.

S+T Coding Ferrule Accessories

For proper assembly, screw terminals should use ferrules for a secure connection. **Ferrules are not included in Sealcon Connectors and will need to be sourced from a supplier.**

Suggested Ferrules

For 16 AWG.....Panduit #FSD78-8-D or equivalent

For 18 AWG.....Panduit #FSD77-8-D or equivalent



DO NOT CONNECT OR DISCONNECT
SEALCON CONNECTORS UNDER LOAD.

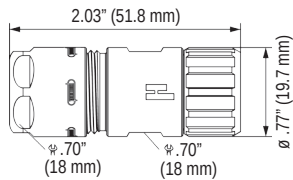
SEE TECHNICAL INFORMATION ON PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M12 POWER CONNECTOR

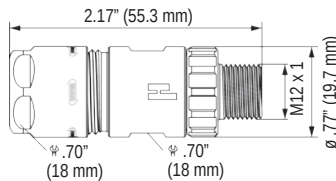
HOUSINGS

M12 Power Straight Connector, EMI, Female Thread



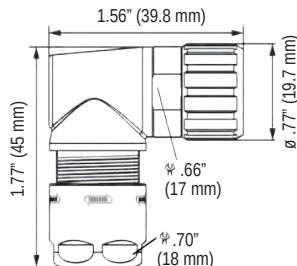
	Cable-Ø	Coding	Part Number
Crimp	3 - 6 mm (.11 - .23")	K, L	SA712-7.K10.300.000
	5 - 9 mm (.20 - .35")	K, L	SA712-7.K10.400.000
	8 - 11 mm (.31 - .43")	K, L	SA712-7.K10.500.000
Screw	3 - 6 mm (.11 - .23")	S, T	SA712-7.S10.300.000
	5 - 9 mm (.20 - .35")	S, T	SA712-7.S10.400.000
	8 - 11 mm (.31 - .43")	S, T	SA712-7.S10.500.000

M12 Power Straight Connector, EMI, Male Thread



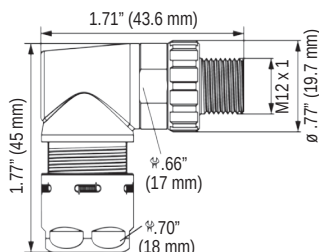
	Cable-Ø	Coding	Part Number
Crimp	3 - 6 mm (.11 - .23")	K, L	SA712-7.K20.300.000
	5 - 9 mm (.20 - .35")	K, L	SA712-7.K20.400.000
	8 - 11 mm (.31 - .43")	K, L	SA712-7.K20.500.000
Screw	3 - 6 mm (.11 - .23")	S, T	SA712-7.S20.300.000
	5 - 9 mm (.20 - .35")	S, T	SA712-7.S20.400.000
	8 - 11 mm (.31 - .43")	S, T	SA712-7.S20.500.000

M12 Power Right Angle Connector, EMI, Female Thread



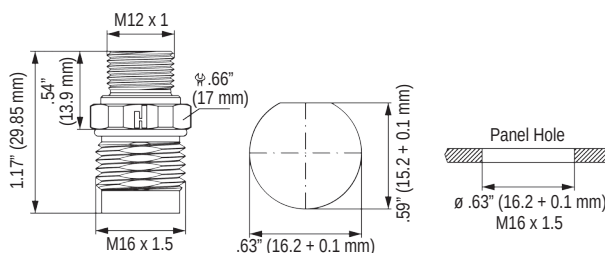
	Cable-Ø	Coding	Part Number
Crimp	3 - 6 mm (.11 - .23")	K, L	SA712-7.K30.300.000
	5 - 9 mm (.20 - .35")	K, L	SA712-7.K30.400.000
	8 - 11 mm (.31 - .43")	K, L	SA712-7.K30.500.000
Screw	3 - 6 mm (.11 - .23")	S, T	SA712-7.S30.300.000
	5 - 9 mm (.20 - .35")	S, T	SA712-7.S30.400.000
	8 - 11 mm (.31 - .43")	S, T	SA712-7.S30.500.000

M12 Power Right Angle Connector, EMI, Male Thread



	Cable-Ø	Coding	Part Number
Crimp	3 - 6 mm (.11 - .23")	K, L	SA712-7.K31.300.000
	5 - 9 mm (.20 - .35")	K, L	SA712-7.K31.400.000
	8 - 11 mm (.31 - .43")	K, L	SA712-7.K31.500.000
Screw	3 - 6 mm (.11 - .23")	S, T	SA712-7.S31.300.000
	5 - 9 mm (.20 - .35")	S, T	SA712-7.S31.400.000
	8 - 11 mm (.31 - .43")	S, T	SA712-7.S31.500.000

M12 Power Panel Connector, Single Hole, Male Thread



Type	Coding	Part Number
Front Mounting, Single Hole		
Thread M16	K, L (Crimp)	SA712-7.K42.000.000
Thread M20	K, L (Crimp)	SA712-7.K42.100.000
Thread M20	S, T (Screw)	SA712-7.S42.000.000
with Lock Nut "Rotation Protection"		
Thread M16	K, L (Crimp)	SA712-7.K42.000.00G
Thread M20	K, L (Crimp)	SA712-7.K42.100.00G
Thread M20	S, T (Screw)	SA712-7.S42.000.00G

S+T CODINGS REQUIRE FERRULES FOR INSTALLATION, SEE PAGE 13 FOR SPECIFICATIONS.

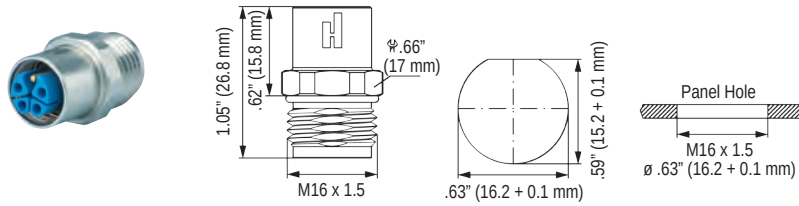


PIN INSERTS MOUNTABLE WITH MALE THREAD HOUSINGS ONLY.
SOCKET INSERTS MOUNTABLE WITH FEMALE THREAD HOUSINGS ONLY.
DRAWINGS APPLY FOR CODING K + L ONLY.

M12 POWER CONNECTOR

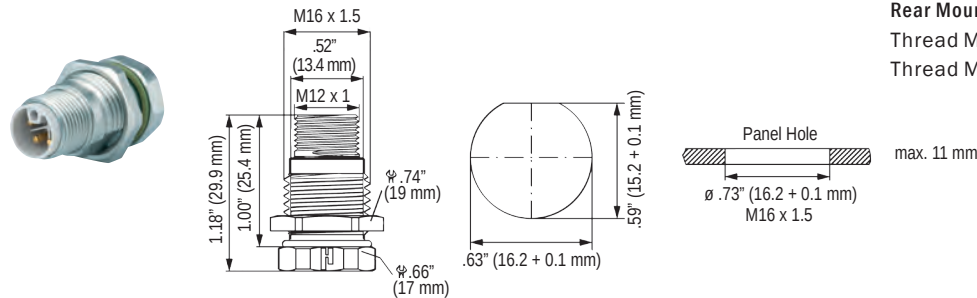
HOUSINGS

M12 Power Panel Connector, Single Hole, Female Thread



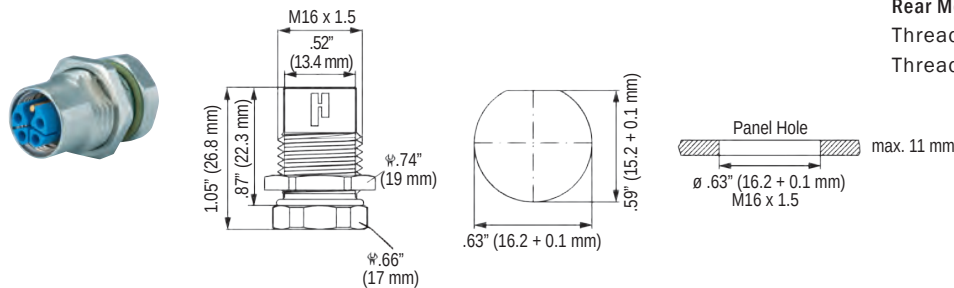
Type	Coding	Part Number
Front Mounting, Single Hole		
Thread M16.....K, L (Crimp).....	SA712-7.K44.000.000	
Thread M20.....K, L (Crimp).....	SA712-7.K44.100.000	
Thread M20.....S, T (Screw).....	SA712-7.S44.000.000	
with Lock Nut "Rotation Protection"		
Thread M16.....K, L (Crimp).....	SA712-7.K44.000.00G	
Thread M20.....K, L (Crimp).....	SA712-7.K44.100.00G	
Thread M20.....S, T (Screw).....	SA712-7.S44.000.00G	

M12 Power Panel Connector, Single Hole, Male Thread



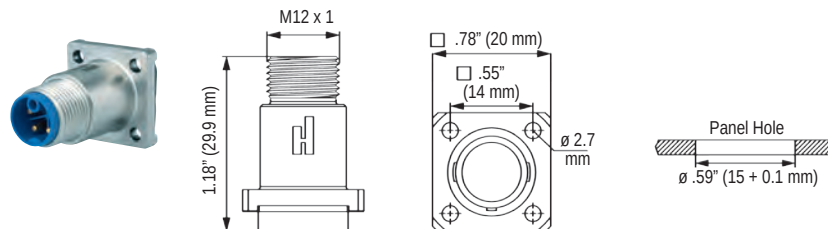
Type	Coding	Part Number
Rear Mounting, Single Hole		
Thread M16.....K, L (Crimp).....	SA712-7.K50.000.000	
Thread M20.....S, T (Screw).....	SA712-7.S50.000.000	

M12 Power Panel Connector, Single Hole, Female Thread



Type	Coding	Part Number
Rear Mounting, Single Hole		
Thread M16.....K, L (Crimp).....	SA712-7.K51.000.000	
Thread M20.....S, T (Screw).....	SA712-7.S51.000.000	

M12 Power Panel Connector, Male Thread, Flange



Type	Coding	Part Number
Front Mounting, 4 x Holes 2.7 mm, Flange		
Flange 20 x 20 mm...K, L (Crimp)...	SA712-7.K40.000.000	
Flange 25 x 25 mm...S, T (Screw)...	SA712-7.S40.000.000	
4 x Holes 3.2 mm Upon Request		

S+T CODINGS REQUIRE FERRULES FOR INSTALLATION, SEE PAGE 13 FOR SPECIFICATIONS

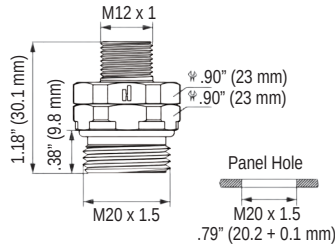


PIN INSERTS MOUNTABLE WITH MALE THREAD HOUSINGS ONLY.
SOCKET INSERTS MOUNTABLE WITH FEMALE THREAD HOUSINGS ONLY.
DRAWINGS APPLY FOR CODING K + L ONLY.

M12 POWER CONNECTOR

HOUSINGS, ACCESSORIES

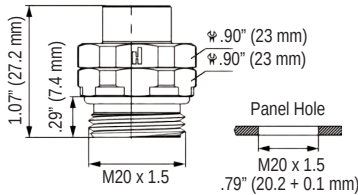
M12 Power Panel Connector, Male Thread, Single Hole, Orientable



Type	Coding	Part Number
Front Mounting, Single Hole		
Thread M16.....K, L (Crimp).....		SA712-7.K42.200.000
Thread M20.....S, T (Screw).....		SA712-7.S42.200.000

 DRAWING SHOWS CODING S + T

M12 Power Panel Connector, Female Thread, Single Hole, Orientable



Type	Coding	Part Number
Front Mounting, Single Hole		
Thread M16.....K, L (Crimp).....		SA712-7.K44.200.000
Thread M20.....S, T (Screw).....		SA712-7.S44.200.000

 DRAWING SHOWS CODING S + T

*MOLDED CORDSETS ALSO AVAILABLE - CONTACT SEALCON FOR DETAILS

S+T CODINGS REQUIRE FERRULES FOR INSTALLATION, SEE PAGE 13 FOR SPECIFICATIONS

 PIN INSERTS MOUNTABLE WITH MALE THREAD HOUSINGS ONLY.
SOCKET INSERTS MOUNTABLE WITH FEMALE THREAD HOUSINGS ONLY.

M12 Power Accessories



Plastic Protective Cap for connectors
with Male thread..... SA712-7.000.980.161
with Female thread..... SA712-7.000.980.162



Brass Protective Cap with chain for connectors
with Female thread
Length 70 mm..... SA712-7.010.9S0.705



Brass Protective Cap for connectors
with Female thread SA712-7.010.900.163



Brass Protective Cap with chain for connectors
with Male thread
Length 70 mm..... SA712-7.010.9S0.704



Brass Protective Cap for connectors
with Male thread SA712-7.010.900.162



Crimp Tool for manual crimping of machined
crimp contacts for signal connectors M12,
M16 and M23..... S7.000.900.908



Tool Adapter for tightening or loosening knurled nuts
for M12 Power / M16 S7.010.900.191



Screw Tool, adjustable 0.5 - 1.7 Nm S7.010.900.190

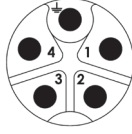
M12 POWER CONNECTOR

INSERTS, CONTACTS

Inserts K-Coding (Crimp)



Insert Pin Mating View



Insert Socket Mating View



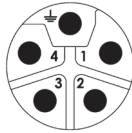
MAX WIRE INSULATION Ø 2.9 MM

Type	Part Number
Crimp Insert, Pins, 4 + PE	
without contacts	SA712-7.K03.941.101
Required contacts: 4 x Pins, 1 x socket PE	
Crimp Insert, Sockets, 4 + PE	
without contacts	SA712-7.K03.941.102
Required contacts: 4 x Sockets, 1 x pin	

Inserts L-Coding (Crimp)



Insert Pin Mating View



Insert Socket Mating View



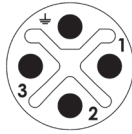
MAX WIRE INSULATION Ø 2.9 MM

Type	Part Number
Crimp Insert, Pins, 4 + PE	
without contacts	SA712-7.L03.941.101
Required contacts: 4 x Pins, 1 x socket PE	
Crimp Insert, Sockets, 4 + PE	
without contacts	SA712-7.L03.941.102
Required contacts: 4 x Sockets, 1 x pin	

Inserts S-Coding (Screw)



Insert Pin Mating View



Insert Socket Mating View

Type	Part Number
Insert with Pins 3 + PE	
Contacts with screw termination...	SA712-7.S05.931.105
Insert with Sockets 3 + PE	
Contacts with screw termination...	SA712-7.S05.931.106

S+T CODINGS REQUIRE FERRULES FOR INSTALLATION, SEE PAGE 13 FOR SPECIFICATIONS

Inserts T-Coding (Screw)



Insert Pin Mating View



Insert Socket Mating View

Type	Part Number
Insert with Pins 4-pole	
Contacts with screw termination...	SA712-7.T05.904.105
Insert with Sockets 4-pole	
Contacts with screw termination...	SA712-7.T05.904.106

S+T CODINGS REQUIRE FERRULES FOR INSTALLATION, SEE PAGE 13 FOR SPECIFICATIONS

M12 Power Contacts

Type	Crimp Range	Part Number
Crimp Pin 1.5 mm, machined	(18 AWG) 0.75 mm ²	SA712-7.010.901.521*
Crimp Pin 1.5 mm, machined	(16 AWG) 1.5 mm ²	SA712-7.010.901.531
Crimp Pin 1.5 mm, machined	(14 AWG) 2.5 mm ²	SA712-7.010.901.541
Crimp Socket 1.5 mm PE, machined.....	(18 AWG) 0.75 mm ²	SA712-7.010.911.522*
Crimp Socket 1.5 mm PE, machined.....	(16 AWG) 1.5 mm ²	SA712-7.010.911.532
Crimp Socket 1.5 mm PE, machined.....	(14 AWG) 2.5 mm ²	SA712-7.010.911.542
Crimp Socket 1.5 mm, machined.....	(18 AWG) 0.75 mm ²	SA712-7.010.901.522*
Crimp Socket 1.5 mm, machined.....	(16 AWG) 1.5 mm ²	SA712-7.010.901.532
Crimp Socket 1.5 mm, machined.....	(14 AWG) 2.5 mm ²	SA712-7.010.901.542

*UNDER DEVELOPMENT



PIN INSERTS MOUNTABLE WITH MALE THREAD HOUSINGS ONLY.
SOCKET INSERTS MOUNTABLE WITH FEMALE THREAD HOUSINGS ONLY.



M16 CONNECTORS

CIRCULAR CONNECTORS AND TWINTUS

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy, Die Cast
Housing surface	Nickel plated, Other surface upon request
Inserts	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	> 1000 (Sealcon to Sealcon connector)
Seals / O-Rings	Buna-N (Black) / Optional FKM (Green)
Temperature range	-40 °F – 257 °F (-40 °C – 125 °C)
Type of contacts	Crimp, dip-solder (PCB) (for printed circuit boards)
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	.08 – .43" (2 - 11 mm)

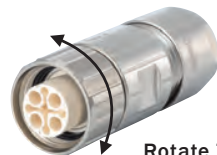
The M16 connector is a favorite in the industry due to the capabilities and performance that is offered all within a compact housing. This connector is available in both signal and power as well as a TWINTUS version. EMI ready options! The M16 connector is ideal for small drives but is very diverse in its application potential.



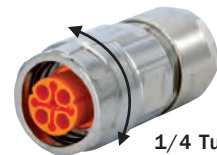
CONNECTION SYSTEM TYPES

THREADED

TWILOCK



Rotate Tight



1/4 Turn

Components Needed For A Complete M16 Signal Connector:

- **HOUSING** (pages 20 - 23)
- **INSERT** (pages 24 - 26)
- **CONTACTS** (if crimp contact insert is selected) (page 26)

Electrical Data	3 (3 x 1 mm)		3 (3 x 2 mm)		4 + 3 + PE / 320 V		4 + 3 + PE / 600 V	
Number of positions	3		3		4		4	
Number of contacts	3		3		4		4	
Contact-Ø [mm]	1		2		0.8		1.25	
[mm²] (AWG)	0.14 – 1 (26 - 17)		0.5 – 2.5 (20 - 14)		0.08 – 0.34 (28 - 22)		0.08 – 0.34 (28 - 22)	
Nominal current [A]	8		20		5		16	
Nominal voltage [V~] degree of protection 3	400		400		160		320	
Test voltage (Breakdown voltage) [V~]	2500		2500		1500		2500	
Insulation resistance [MΩ]	> 10 ¹⁰		> 10 ¹⁰		> 10 ¹⁰		> 10 ¹⁰	
Max. contact resistance [mΩ]	3		3		3		3	

Electrical Data	6 + PE	10	12 + 3		18
Number of positions	7	10	12	3	18
Number of contacts	7	10	12	3	18
Contact-Ø [mm]	1.25	1	0.8	1.25	0.8
[mm²] (AWG)	0.5 – 1.5 (20 - 16)	.14 – 0.75 (26 - 18)	0.08 – 0.34 (28 - 20)	0.5 – 1.5 (20 - 16)	0.08 – 0.34 (28 - 22)
Nominal current [A]	16	8	3	10	3
Nominal voltage [V~] degree of protection 3	600	160	24	60	24
Test voltage (Breakdown voltage) [V~]	2500	1500	1500	2500	1500
Insulation resistance [MΩ]	> 10 ¹⁰	> 10 ⁶	> 10 ¹⁰		> 10 ¹⁰
Max. contact resistance [mΩ]	3	3	3	3	3

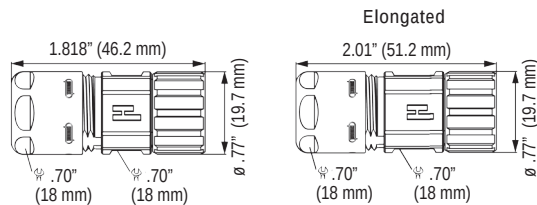
SEE TECHNICAL INFORMATION ON PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M16 CONNECTORS

HOUSINGS

M16 Straight Connector, EMI, Female Thread / Elongated*

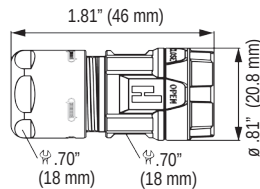


Cable-Ø	Part Number
3 - 6 mm (.11 - .23")	S7.810.300.000
5 - 9 mm (.20 - .35")	S7.810.400.000
8 - 11 mm (.31 - .43")	S7.810.500.000

*Elongated

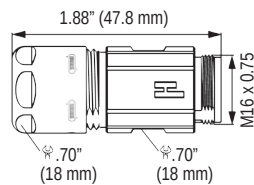
3 - 6 mm (.11 - .23")	S7.811.300.000
5 - 9 mm (.20 - .35")	S7.811.400.000
8 - 11 mm (.31 - .43")	S7.811.500.000

M16 Straight Connector, EMI, Female Thread, TWILOCK - Quick Connect



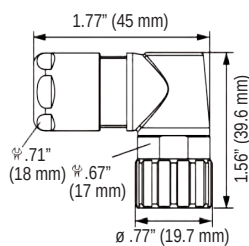
Cable-Ø	Part Number
3 - 6 mm (.11 - .23")	S7.816.300.000
5 - 9 mm (.20 - .35")	S7.816.400.000
8 - 11 mm (.31 - .43")	S7.816.500.000

M16 Straight Connector, EMI, Male Thread



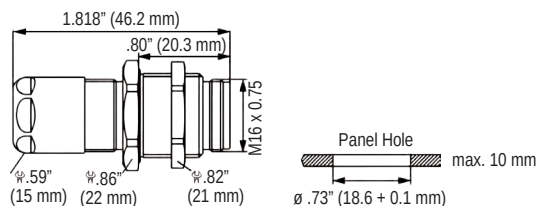
Cable-Ø	Part Number
3 - 6 mm (.11 - .23")	⊗ S7.820.300.000
5 - 9 mm (.20 - .35")	⊗ S7.820.400.000
8 - 11 mm (.31 - .43")	⊗ S7.820.500.000

M16 Right Angle Connector with Positioning, EMI, Female Thread



Cable-Ø	Part Number
3 - 6 mm (.11 - .23")	S7.831.300.000
5 - 9 mm (.20 - .35")	S7.831.400.000
8 - 11 mm (.31 - .43")	S7.831.500.000

M16 Panel Connector with Strain Relief, EMI, Single Hole, Male Thread



Cable-Ø	Part Number
Rear Mounting, Single Hole	
2 - 7 mm (.08 - .27")	⊗ S7.852.300.000
5 - 9 mm (.20 - .35")	⊗ S7.852.400.000

Including Hex Locking Nut PG11

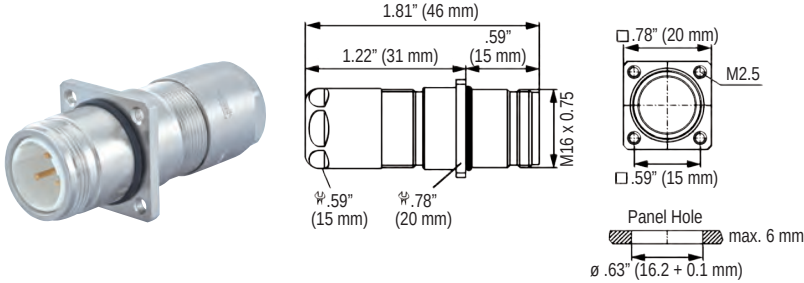
⊗ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M16 CONNECTORS

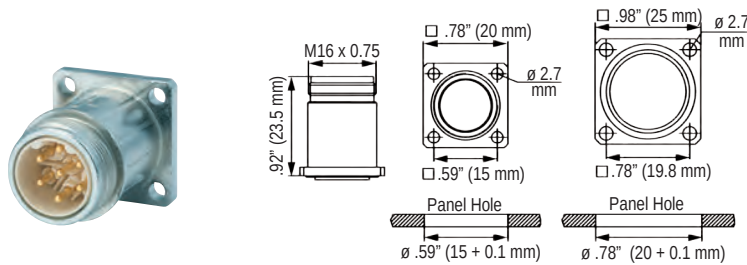
HOUSINGS

M16 Panel Connector with Strain Relief, EMI, Male Thread, Flange



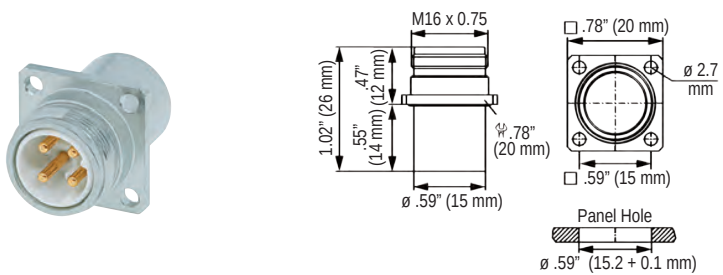
Cable-Ø	Part Number
Rear Mounting, 4 x Threaded M2.5, Flange 20 x 20 mm	
2 - 7 mm (.08 - .27")	Ⓢ7.847.300.000
5 - 9 mm (.20 - .35")	Ⓢ7.847.400.000

M16 Panel Connector, Male Thread, Flange



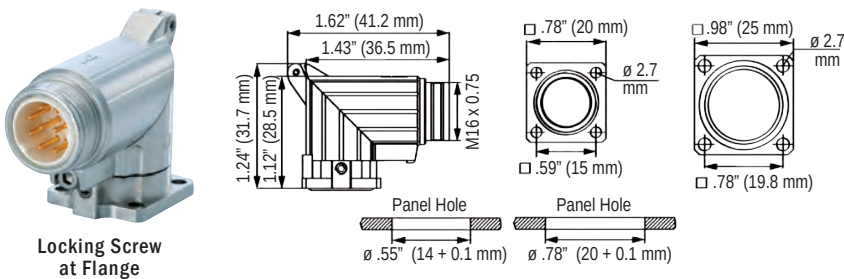
Type	Part Number
Front Mounting, 4 Holes x Ø 2.7 mm, Flange	
Flange 20 x 20 mm	Ⓢ7.840.000.000
Flange 25 x 25 mm	Ⓢ7.840.100.000
Optional: Flat gasket....STAD1-7P2510	

M16 Panel Connector, Short Version, Male Thread, Flange



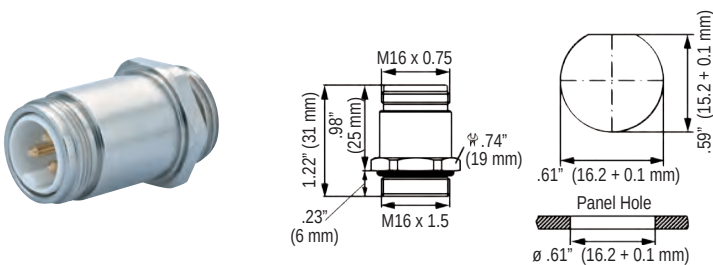
Type	Part Number
Front Mounting, Short version, Flange 20 x 20 mm	
4 x Holes Ø 2.7 mm	Ⓢ7.840.200.000

M16 Right Angle Panel Connector, Male Thread, Rotatable 300°



Type	Part Number
300° Rotatable, 4 Holes x Ø 2.7 mm, Flange	
Flange 20 x 20 mm	Ⓢ7.843.000.000
Flange 25 x 25 mm	Ⓢ7.843.100.000
Optional: Flat gasket....STAD1-7P2510	

M16 Panel Connector, Single Hole, Male Thread, Flange



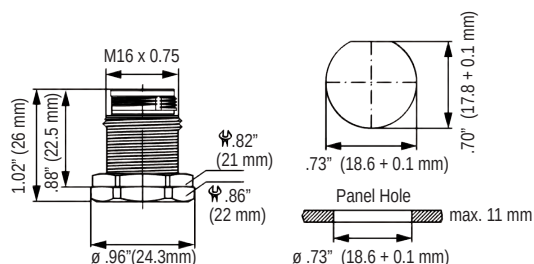
Type	Part Number
Front Mounting, Single Hole	
Thread M16 x 1.5	Ⓢ7.842.000.000

Ⓢ MATES WITH TWILOCK SYSTEM Ⓢ DOES NOT MATE WITH TWILOCK SYSTEM

M16 CONNECTORS

HOUSINGS

M16 Panel Connector, Single Hole, Male Thread



Type

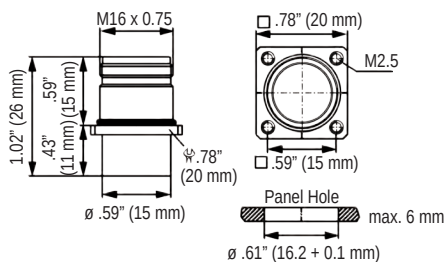
Part Number

Rear Mounting, Single Hole

Thread M16 x 1.5..... S7.850.000.000

Including Hex Locking Nut PG11

M16 Panel Connector, Male Thread, Flange



Type

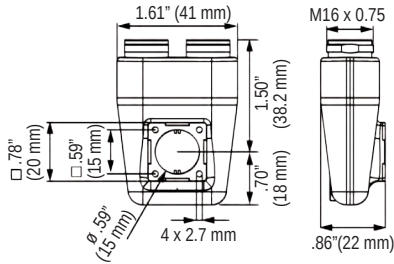
Part Number

Rear Mounting, Flange 20 x 20 mm

4 x Holes Ø 2.5 mm..... S7.845.000.000

M16 TWINTUS, Male Thread, Flange/Motor Mount

INSERT OPTIONS AVAILABLE ON PAGE 26



Type

Part Number

Motor/Flange Mounting 20x 20 mm

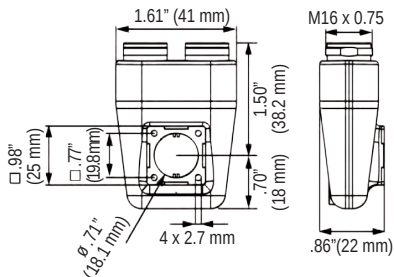
Uncoated S7.848.000.000

Surface Nickel Plated S7.848.000.001

Surface Black Conductive..... S7.848.000.00B

M16 TWINTUS, Male Thread, Flange/Motor Mount

INSERT OPTIONS AVAILABLE ON PAGE 26



Type

Part Number

Motor/Flange Mounting 25 x 25 mm

Uncoated..... S7.848.100.000

Surface Nickel Plated..... S7.848.100.001

Surface Black Conductive..... S7.848.100.00B

MATES WITH TWILOK SYSTEM

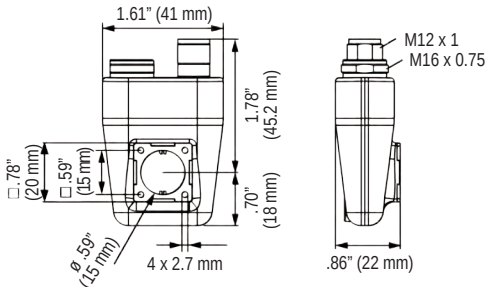
DOES NOT MATE WITH TWILOK SYSTEM

M16 CONNECTORS

HOUSINGS

M12/M16 TWINTUS, Male Thread, Flange/Motor Mount

INSERT OPTIONS AVAILABLE ON PAGE 26



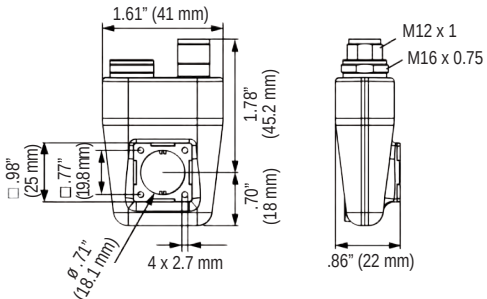
Type	Part Number
Motor/Flange Mounting 20 x 20 mm	
Uncoated	⊙ S7.848.200.000
Surface Nickel Plated	⊙ S7.848.200.001
Surface Black Conductive	⊙ S7.848.200.00B



M12 PORT DOES NOT MATE WITH TWILOCK SYSTEM

M12/M16 TWINTUS, Male Thread, Flange/Motor Mount

INSERT OPTIONS AVAILABLE ON PAGE 26



Type	Part Number
Motor/Flange Mounting 25 x 25 mm	
Uncoated	⊙ S7.848.300.000
Surface Nickel Plated	⊙ S7.848.300.001
Surface Black Conductive	⊙ S7.848.300.00B



M12 PORT DOES NOT MATE WITH TWILOCK SYSTEM

M16 Accessories



Plastic Protective Cap for connectors
with Male thread..... S7.000.980.161
with Female thread S7.000.980.162



Brass Protective Cap for connectors
with Female thread S7.010.900.163



Brass Protective Cap for connectors
with Male thread S7.010.900.162



Adapter Flange
for Straight Connectors..... S7.010.900.135



Conduit Adapter
Nylon DN 10..... S7.010.900.200
Nylon DN 12..... S7.010.900.202



Tool Adapter for tightening or loosening knurled nuts for
M12 Power / M16 S7.010.900.191



Brass Protective Cap with chain for connectors
with Female thread
Length 70 mm..... S7.010.9S0.705



Brass Protective Cap with chain for connectors
with Male thread
Length 70 mm..... S7.010.9S0.704



Crimp Tool for manual crimping of machined
crimp contacts for signal connectors
M16 and M23..... S7.000.900.904



Plastic Protective Cap for TWINTUS
TWINTUS M16..... S7.000.848.101
TWINTUS M16 / M12..... S7.000.848.102



Screw Tool, adjustable 0.5 - 1.7 Nm S7.010.900.190



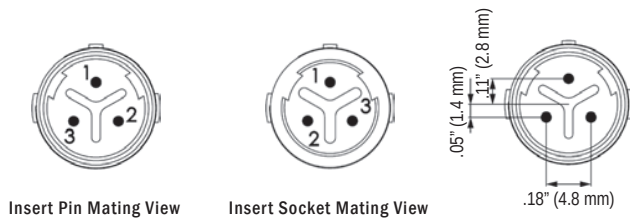
Disassembly Tool for crimp contacts 1.25 mm
..... S7.010.900.151

⊙ MATES WITH TWILOCK SYSTEM ⊘ DOES NOT MATE WITH TWILOCK SYSTEM

M16 CONNECTORS

INSERTS

Inserts 3-pole (3 x 1 mm)



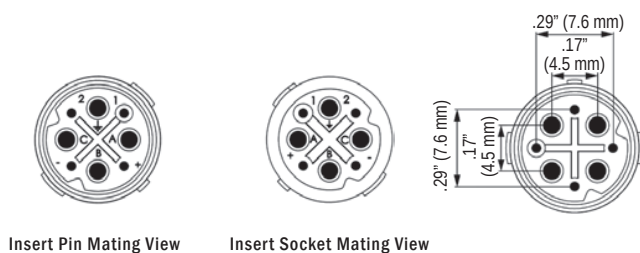
Type	Part Number	Part Number
	Pins	Sockets
Insert without contacts.....	S7.003.903.101	S7.003.903.102
Insert with dip solder contacts		
Length 10 mm.....	S7.001.903.127	S7.001.903.108
Insert with dip solder contacts		
Length 17 mm.....	S7.001.903.137	S7.001.903.118
Required Contacts		S7.010.901.002
3 x 1 mm	S7.010.901.001	S7.010.901.012

Inserts 3-pole (3 x 2 mm)



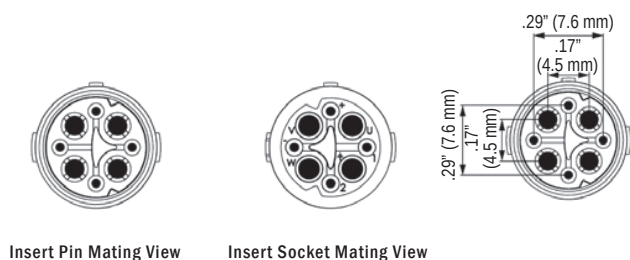
Type	Part Number	Part Number
	Pins	Sockets
Insert without contacts.....	S7.003.983.101	S7.003.983.102
Insert with dip solder contacts		
Length 10 mm.....	S7.001.983.127	S7.001.983.108
Insert with dip solder contacts		
Length 17 mm.....	S7.001.983.137	S7.001.983.118
Required Contacts		
3 x 2 mm	S7.010.982.001	S7.010.982.002

Inserts 8-pole 4+3+PE, 320 V



Type	Part Number	Part Number
	Pins	Sockets
Insert without contacts.....	S7.003.943.101	S7.003.943.102
Insert RAL 2003 (DESINA orange)		
without contacts	S7.053.943.101	S7.053.943.102
Insert with dip solder contacts		
Length 10 mm.....	S7.001.943.127	S7.001.943.108
Insert with dip solder contacts		
Length 17 mm.....	S7.001.943.137	S7.001.943.118
Required Contacts		
4 x 0.8 mm	S7.010.980.801	S7.010.980.802
4 x 1.6 mm	S7.010.981.601	S7.010.981.602

Inserts 8-pole 4+3+PE, 600 V

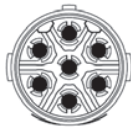
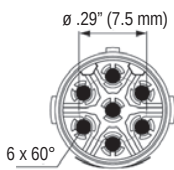


Type	Part Number	Part Number
	Pins	Sockets
Insert without contacts.....	S7.003.908.101*	S7.003.908.102*
Insert RAL 2003 (DESINA orange)		
without contacts	S7.053.908.101*	S7.053.908.102*
Insert with dip solder contacts - Under Development		
Length 10 mm.....	S7.001.908.127	S7.001.908.108
Insert with dip solder contacts - Under Development		
Length 17 mm.....	S7.001.908.137	S7.001.908.118
Required Contacts		
4 x 0.8 mm	S7.010.980.811	S7.010.980.812
4 x 1.25 mm	S7.010.981.211*	S7.010.981.212*

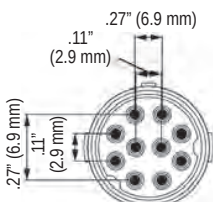
*INSERTION/REMOVAL TOOL # S7.010.900.151 IS REQUIRED

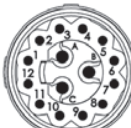
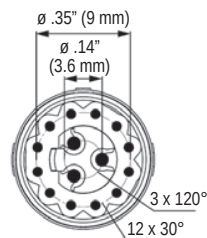
M16 CONNECTORS

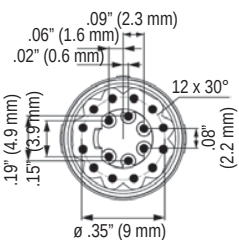
INSERTS

Inserts 7-pole 6+PE		Type	Part Number	Part Number	
 Insert Pin Mating View	 Insert Socket Mating View		Pins		
			Sockets		
			Insert without contacts.....	S7.003.961.101*S7.003.961.102*	
		Insert RAL 2003 (DESINA orange)			
		without contacts		S7.053.961.101*.....S7.053.961.102*	
		Insert with dip solder contacts - Under Development			
		Length 10 mm		S7.001.961.127.....S7.001.961.108	
		Insert with dip solder contacts - Under Development			
		Length 17 mm		S7.001.961.137.....S7.001.961.118	
Required Contacts					
7 x 1.25 mm		S7.010.981.211*.....S7.010.981.212*			

*INSERTION/REMOVAL TOOL # S7.010.900.151 IS REQUIRED

Inserts 10-pole		Type	Part Number	Part Number	
			Pins	Sockets	
 Insert Pin Mating View	 Insert Socket Mating View		Insert without contacts.....	S7.003.910.101.....S7.003.910.102	
			Insert RAL 2003 (DESINA green)		
			without contacts	S7.053.910.101.....S7.053.910.102	
		Insert with dip solder contacts			
		Length 10 mm.....		S7.001.910.127.....S7.001.910.108	
		Insert with dip solder contacts			
		Length 17 mm.....		S7.001.910.137.....S7.001.910.118	
		Required Contacts			
		10 x 1 mm		S7.010.981.001.....S7.010.981.002	

Inserts 15-pole 12+3		Type	Part Number	Part Number	
 Insert Pin Mating View	 Insert Socket Mating View		Pins		
			Sockets		
			Insert without contacts.....S7.003.985.101..... S7.003.985.102		
		Insert with dip solder contacts			
		Length 10 mm.....S7.001.985.127		S7.001.985.108	
		Insert with dip solder contacts			
		Length 17 mm.....S7.001.985.137		S7.001.985.118	
		Required Contacts			
12 x 0.8 mm		S7.010.980.801..... S7.010.980.802			
3 x 1.25 mm		S7.010.981.201..... S7.010.981.202			

Inserts 18-pole		Type	Part Number	Part Number	
 Insert Pin Mating View	 Insert Socket Mating View		Pins		
			Sockets		
			Insert without contacts.....S7.003.988.101.....S7.003.988.102		
		Insert RAL 2003 (DESINA green)			
		without contactsS7.053.988.101.....S7.053.988.102			
		Insert with dip solder contacts			
		Length 10 mm.....S7.001.988.127.....S7.001.988.108			
		Insert with dip solder contacts			
		Length 17 mm.....S7.001.988.137.....S7.001.988.118			
Required Contacts					
18 x 0.8 mmS7.010.980.801S7.010.980.802					

M12/M16 CONNECTORS

INSERTS, CONTACTS

Inserts M12 for TWINTUS M16 / M12 (8-pole)

Type

Part Number



Insert Pin Mating View

Pins

Insert with solder contacts.....SA712-7.001.908.103

Inserts M12 for TWINTUS M16 / M12 (12-pole)

Type

Part Number



Insert Pin Mating View

Pins

Insert with solder contacts.....SA712-7.001.912.103

M12/M16 Contacts

Type

Crimp Range

Part Number



Crimp Pin 0.8 mm, machined.....0.08 – 0.34 mm² (AWG 28 – 22).....S7.010.980.801



Crimp Socket 0.8 mm, machined.....0.08 – 0.34 mm² (AWG 28 – 22).....S7.010.980.802



Crimp Pin 0.8 mm, machined.....0.08 – 0.34 mm² (AWG 28 – 22).....S7.010.980.811



Crimp Socket 0.8 mm, machined.....0.08 – 0.34 mm² (AWG 28 – 22).....S7.010.980.812



Crimp Pin 1 mm, machined.....0.08 – 0.75 mm² (AWG 28 – 18).....S7.010.981.001



Crimp Socket 1 mm, machined0.08 – 0.75 mm² (AWG 28 – 18).....S7.010.981.002



Crimp Pin 1 mm, machined.....0.14 – 1 mm² (AWG 26 – 17).....S7.010.901.001



Crimp Socket 1 mm, machined.....0.08 – 0.56 mm² (AWG 28 – 20).....S7.010.901.012



Crimp Socket 1 mm, machined.....0.34 – 1 mm² (AWG 22 – 17).....S7.010.901.002



Crimp Pin 1.25 mm, machined.....0.5 – 1.5 mm² (AWG 20 – 16).....S7.010.981.201



Crimp Socket 1.25 mm, machined0.5 – 1.5 mm² (AWG 20 – 16).....S7.010.981.202



Crimp Pin 1.25 mm, machined.....0.34 – 1.5 mm² (AWG 20 – 16).....S7.010.981.211



Crimp Socket 1.25 mm, machined.....0.34 – 1.5 mm² (AWG 20 – 16).....S7.010.981.212



Crimp Pin 1.6 mm, machined.....0.34 – 1.5 mm² (AWG 22 – 16).....S7.010.981.601



Crimp Socket 1.6 mm, machined.....0.34 – 1.5 mm² (AWG 22 – 16).....S7.010.981.602



Crimp Pin 2 mm, machined.....1.0 – 2.5 mm² (AWG 17 – 14).....S7.010.982.001



Crimp Socket 2 mm, machined.....1.0 – 2.5 mm² (AWG 17 – 14).....S7.010.982.002



Crimp Socket 2 mm, machined.....1.0 – 2.5 mm² (AWG 17 – 14).....S7.010.982.002



M23 PoE CONNECTORS

POWER OVER ETHERNET

The M23 PoE connector meets CAT 7 requirements and transfers up to a gigabit of data. Hybrid connector design has four Concentric Coax Twinax inserts for data transfer contained within a single connector solution. Designed for use in rough industrial environments, this durable connector can withstand many rugged applications. This connector also comes equipped with five separate shielding tubes to prevent cross-talk. EMI ready options!



SEE TECHNICAL INFORMATION ON PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM
OR BY CALLING US AT 1-800-456-9012

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated
Inserts (for contacts)	PBT UL-94 V0, PA6
Contacts	Brass alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	>1000 (Sealcon to Sealcon connector)
Seals / O-Rings	Perbunan Buna-N (Black)
Temperature range	-40°F - 257°F (-40°C - 125°C)
Type of contacts	Crimp, dip-solder (PCB)
Protection	IP 67 per EN 60 529 (connected)
Cable diameter range	.43 - .67" (11 - 17 mm)

Components Needed For A Complete M23 PoE Connector:

- **HOUSING** (page 29)
- **INSERT** (page 30)
- **CONTACTS** (if crimp contact insert is selected) (page 30)

Electrical Data		
Number of positions	20 (4 x 2 + 12)	
Number of contacts	4 x 2	12
Contact-Ø [mm]	0.6	1
[mm²] (AWG)	0.8 - 0.34 mm² (28 - 22)	0.14 - 1/1.5 mm² (26 - 16)
Nominal current [A]	2	8*
Nominal voltage [V~] degree of protection 3	60	160
Test voltage (Breakdown voltage) [V~]	500	1500
Insulation resistance [MΩ]	>10 ⁶	>10 ⁶
Max. contact resistance [mΩ]	3	3
Impedance [Ω] (at 100MHz)	100	-

*FOR MORE INFORMATION ON 10A RATING OPTION, PLEASE CONTACT SEALCON.



M23 PoE CONNECTORS

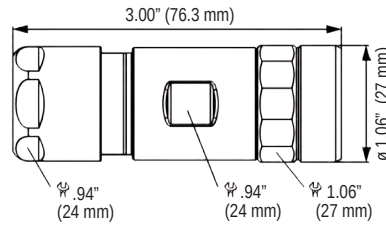
HOUSINGS

M23 PoE Straight Connector, EMI, Female Thread

Cable-Ø

Part Number

11-17 mm (.43 - .66").....S7.108.600.000

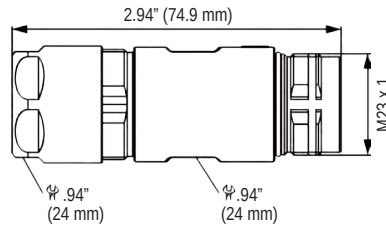


M23 PoE Straight Connector, EMI, Male Thread

Cable-Ø

Part Number

11-17 mm (.43 - .66").....S7.208.600.000

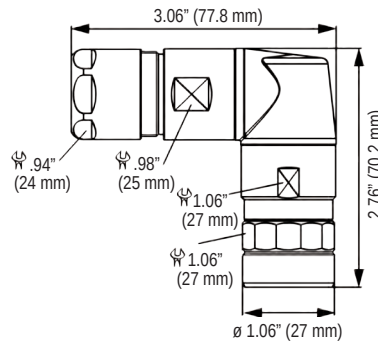


M23 PoE Right Angle Connector, EMI, Female Thread, Rotatable

Cable-Ø

Part Number

11-17 mm (.43 - .66").....S7.308.600.000



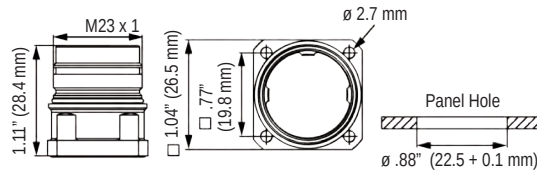
M23 PoE Panel Connector, Male Thread, Flange

Type

Part Number

Front Mounting, Flange 26 x 26 mm

4 x Holes Ø 2.7 mmS7.408.000.000



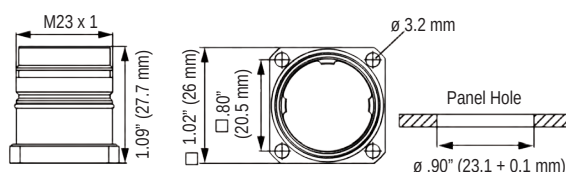
M23 PoE Panel Connector, Male Thread, Flange

Type

Part Number

Rear Mounting, Flange 26 x 26 mm

4 x Holes Ø 3.2 mm.....S7.468.000.000



M23 PoE CONNECTORS

INSERTS, CONTACTS, ACCESSORIES

Inserts 20-pole (4 x 2) + 12		Type	Part Number	Part Number
			Pins	Sockets
		Insert without contacts.....	S7.003.920.101.....	S7.003.920.102
		Insert with dip solder contacts.....	S7.001.920.107.....	S7.001.920.108
		Required Contacts		
		8 x 0.6mm.....	S7.010.980.641.....	S7.010.980.602
		12 x 1mm.....	S7.010.901.045.....	S7.010.901.002
			S7.010.901.049.....	S7.010.901.012
				S7.010.901.022
				S7.010.901.046

M23 PoE Contacts	Type	Crimp Range	Part Number
	Crimp Pin 0.6 mm, machined	0.08 – 0.34 mm ² (AWG 28 - 22).....	S7.010.980.641
	Crimp Socket 0.6 mm, machined.....	0.08 – 0.34 mm ² (AWG 28 - 22).....	S7.010.980.602
	Crimp Pin 1 mm, machined.....	0.14 – 1 mm ² (AWG 26 - 17).....	S7.010.901.049
		0.75 – 1.5 mm ² (AWG 18 - 16).....	S7.010.901.045
	Crimp Socket 1 mm, machined.....	0.08 – 0.56 mm ² (AWG 28 - 20).....	S7.010.901.012
		0.34 – 1 mm ² (AWG 22 - 17).....	S7.010.901.002
		0.75 – 1.5 mm ² (AWG 18 - 16).....	S7.010.901.022
		1 – 1.75 mm ² (AWG 17 - 15).....	S7.010.901.046

M23 PoE Accessories

	Plastic Protective Cap for connectors with Male thread.....S7.000.900.101		Brass Protective Cap with chain for connectors with Female thread
	with Female threadS7.000.900.102		Length 70 mm.....S7.010.9S0.783
			Length 100 mm.....S7.010.9S1.083
	Brass Protective Cap for connectors with Female threadS7.010.900.183		Adapter Flange for Straight Connectors.....S7.010.900.128
	Brass Protective Cap for connectors with Male threadS7.010.908.102		Adapter Flange for Moulded Connectors.....S7.010.900.139
	Conduit Adapter		Multi-Bus adapter wired through I:I (excentric)
	Nylon Conduit DN 12.....S7.010.900.205		Multi-Bus I, Female Thread, Sockets 17pole
	Nylon Conduit DN 14.....S7.010.900.207		Multi-Bus II, Male Thread, Pins.....S7.010.900.143
	Nylon Conduit DN 17.....S7.010.900.209		
	Control Cabinet Adapter for Multibus II – AIDA		Multi-Bus I, Female Thread, Pins, 17pole
	Rear Mounting, central lockingS7.010.900.145		Multi-Bus II, Male Thread, SocketsS7.010.900.144
	I / O Adapter Module to scan or feed signals		Manual Crimp Tool for EMI Sleeves
	Rear Mounting, central lockingS7.010.900.146		M23 Fast EthernetS7.000.900.906
			Manual Crimp Tool for turned contacts
			M23 Fast EthernetS7.000.900.907



M23 RJ45 CONNECTORS

SAFE DATA TRANSFERS

The M23 RJ45 connector is built for industrial environments and meets CAT 5, 5e or CAT 6a requirements. With the proper patch cable, they can be directly integrated into the body of the connector. With a screw lock system, these connectors are also suitable as a maintenance interface and include a built-in cable gland. This system achieves an IP 67 / IP 69K protection class. EMI ready options!

Ideal in Low Voltage Applications!

- SCADA & RTU's
- Data Collection



Integrated Female coupler accommodates off-the-shelf RJ45 patch cables

Mechanical Data	Materials and Technical Data
Housing	Brass Alloy Die Cast
Housing surface	Nickel plated
Inserts (for contacts)	PBT UL-94 V0, PA 6
Contacts	Brass Alloy
Contact surface at point of contact	Depends On RJ45 Type Used
Seals / O-Rings	Buna-N (Black) / FKM (Green)
Temperature range	Depends On RJ45 Type Used
Degree of Protection	IP 67 per EN 60 529 (mated)
Cable diameter range	3 - 7 / 7 - 12 / 11 - 17 mm
Number of Positions	4 / 6 / 8 poles, Optional 4 + 2 / 6 + 2 / 8 + 2
Nominal Current [A]	Depends On RJ45 Type Used
Nominal Voltage [V~]	Depends On RJ45 Type Used
Test Voltage [V~]	Depends On RJ45 Type Used
Insulation Resistance [MΩ]	Depends On RJ45 Type Used
Max. Crossover Resistance [mΩ]	Depends On RJ45 Type Used
Max. Data Rate	Depends On RJ45 Type Used, IAW CAT5/5e/6a

Components Needed For A Complete M23 RJ45 Connector:

- HOUSING (pages 33 - 35)
- INSERT Included



Ex-i RJ45 Approved
Connectors: See Page 76



SEE TECHNICAL INFORMATION PAGE 80

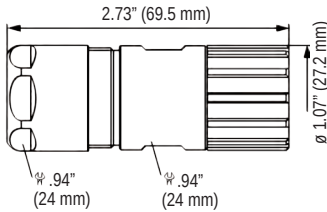
*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M23 RJ45 CONNECTORS

HOUSINGS

M23 RJ45 Straight Connector, EMI, Female Thread

MUST USE YAMAICHI Y-CON SQUARE PLUG - SEE PAGE 35

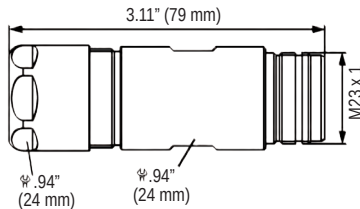


Cable-Ø	Part Number
3 – 7 mm (.12 - .28").....	S7.R10.400.000
Connector with Insert for Patch Cable	

Suitable Patch Cable and Plugs can be Recommended.

M23 RJ45 Straight Connector, EMI, Male Thread

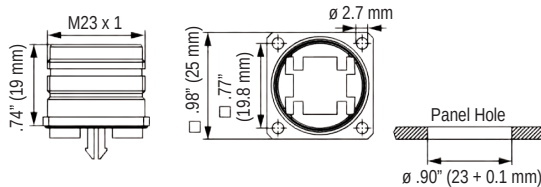
FEMALE / FEMALE COUPLER



Cable-Ø	Part Number
3 – 7 mm (.12 - .28").....	S7.R20.408.000
Includes 8 poles Coupler, Fully Occupied	

M23 RJ45 Panel Connector, Male Thread, Dip Solder Insert, Flange

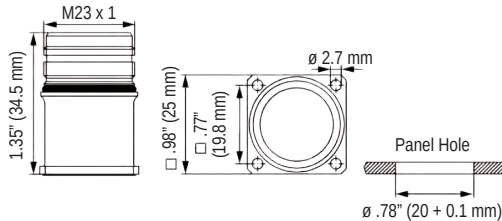
DIP SOLDER INSERT



Type	Part Number
Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 2.7 mm.....	S7.R40.008.000
Includes 8 poles dip solder insert	
4 x Holes Ø 2.7 mm.....	S7.R40.082.000
Includes 8 + 2 poles Dip Solder Insert	

M23 RJ45 Panel Connector, Male Thread, Flange

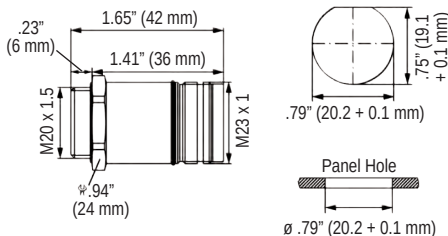
FEMALE/FEMALE COUPLER



Type	Part Number
Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 2.7 mm,.....	S7.R41.008.000
Includes 8 poles coupler, Fully Occupied	

M23 RJ45 Panel Connector, Single Hole, Male Thread

FEMALE/FEMALE COUPLER



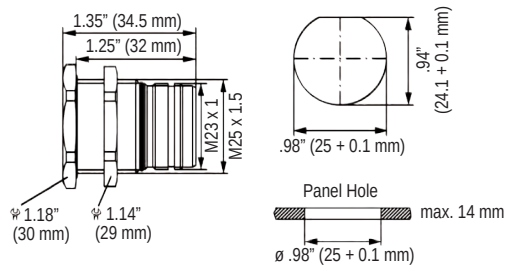
Type	Part Number
Front Mounting, Single Hole	
M20 x 1.5 thread	S7.R42.008.000
Includes 8 poles Coupler, Fully Occupied	
Optional: Gasket M20 x 1.5, Locking Nut	

M23 RJ45 CONNECTORS

HOUSINGS

M23 RJ45 Panel Connector, Single Hole, Male Thread

FEMALE/FEMALE COUPLER



Type

Part Number

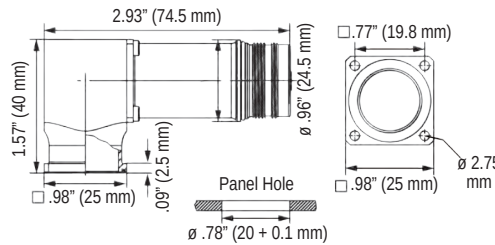
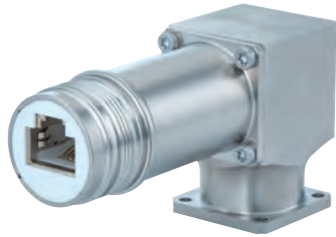
Rear Mounting, Single Hole

M25 x 1.5 threadS7.R50.008.000
Includes 8 poles Coupler, Fully Occupied

Including Locking Nut M25 x 1.5

M23 RJ45 Right Angle Panel Connector, Male Thread, Rotatable 300°

FEMALE/FEMALE COUPLER



Type

Part Number

300° Rotatable, Flange 25 x 25 mm

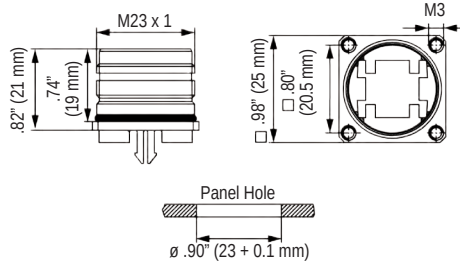
4 x Holes Ø 2.7 mm.....S7.R43.108.000
Includes 8 poles Coupler, Fully Occupied

Optional: Flat Gasket....STAD1-7P2510

Easy Fastening with:
M2.5 x 10 mm Screws

M23 RJ45 Panel Connector, Male Thread, Dip Solder Insert, Flange

DIP SOLDER INSERT



Type

Part Number

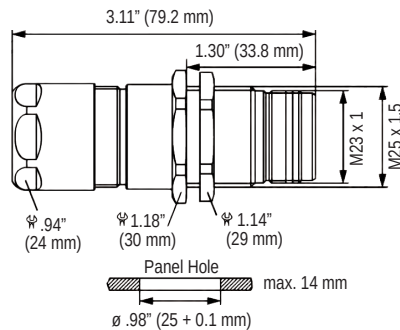
Rear Mounting, Flange 25 x 25 mm

4 x Threaded M3.....S7.R45.008.000
Includes 8 poles Dip Solder Insert

4 x Threaded M3.....S7.R45.082.000
Includes 8 + 2 poles Dip Solder Insert

M23 RJ45 Panel Connector w/ Strain Relief, EMI, Single Hole, Male Thread

FEMALE/FEMALE COUPLER



Cable-Ø

Part Number

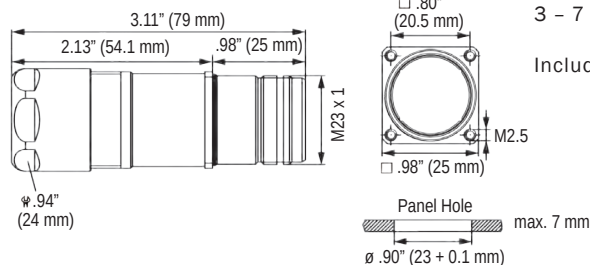
Rear Mounting, Thread M25 x 1.5, Single Hole

3 - 7 mm (.12 - .28").....S7.R52.408.000

Includes 8 poles Coupler, Fully Occupied
Including Locking Nut M25 x 1.5

M23 RJ45 Panel Connector with Strain Relief, EMI, Male Thread

FEMALE/FEMALE COUPLER



Cable-Ø

Part Number

Rear Mounting, 4 x Threaded M2.5, Flange 25 x 25 mm

3 - 7 mm (.12 - .28").....S7.R47.408.000

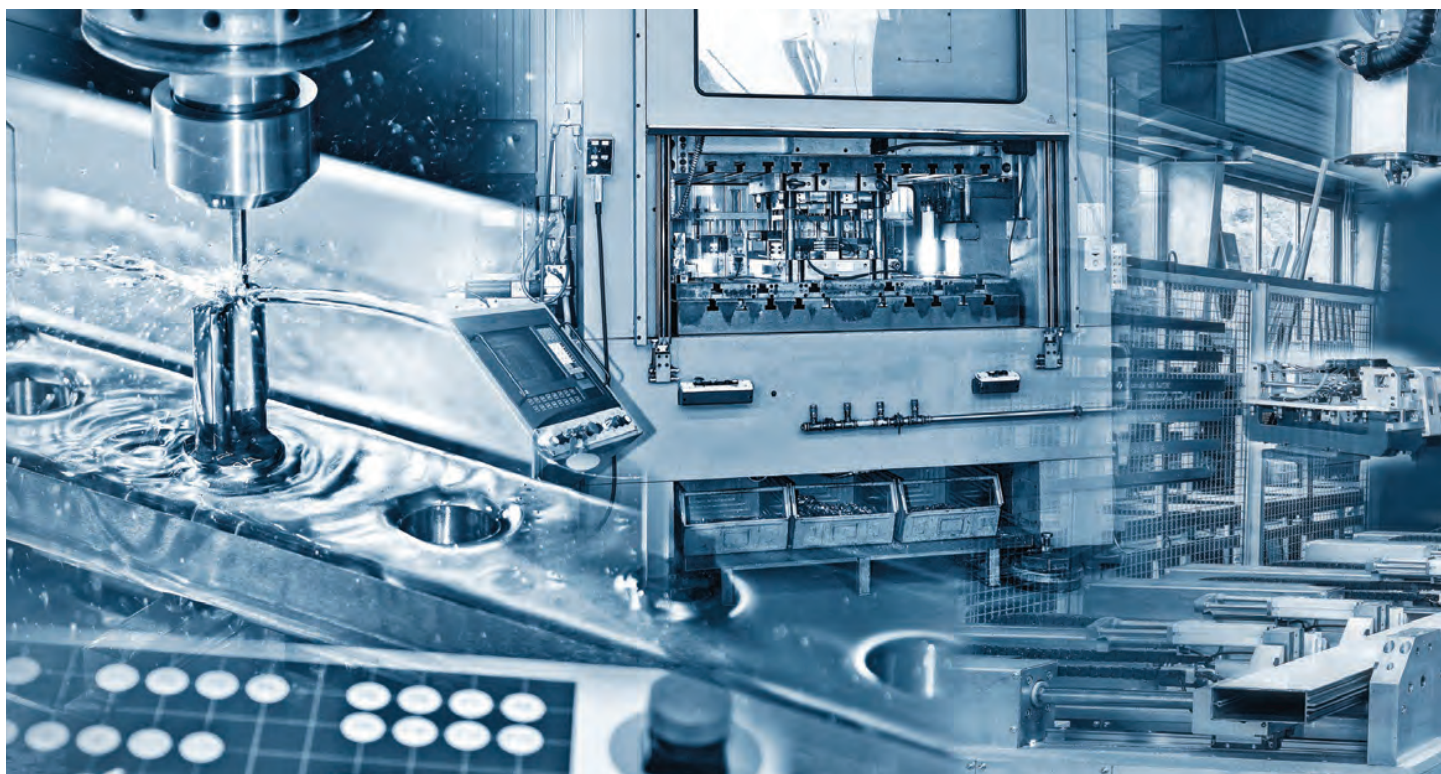
Includes 8 poles Coupler, Fully Occupied

M23 RJ45 CONNECTORS

ACCESSORIES

M23 RJ45 Accessories

	Plastic Protective Cap for connectors with Male thread.....S7.000.900.101 with Female threadS7.000.900.102		Brass Protective Cap with chain for connectors with female thread Length 70 mm.....S7.010.9S0.783 Length 100 mm.....S7.010.9S1.083
	Brass Protective Cap for connectors with Female threadS7.010.900.183		Brass Protective Cap with chain for connectors with Male thread Length 70 mm.....S7.010.9S0.702 Length 100 mm.....S7.010.9S1.002
	Brass Protective Cap for connectors with Male threadS7.010.900.102		Suitable patch cable.....ON REQUEST
	Adapter Flange for Straight Connectors.....S7.010.900.128		Field attachable RJ45 Yamaichi Plug 8-pole.....CAT 5/5e.....SA7RJ-081M41 8-pole.....CAT 6a.....SA7RJ-081M6A 8+2-pole.....CAT 5/5e.....SA7RJ-821M51
	Conduit Adapter Nylon Conduit DN 12.....S7.010.900.205 Nylon Conduit DN 14.....S7.010.900.207 Nylon Conduit DN 17.....S7.010.900.209		Screw Tool, adjustable 0.5 - 1.7 NmS7.010.900.190
	Tool Adapter for tightening or loosening knurled nuts for M23S7.010.900.192		





M23 SIGNAL CONNECTORS

DESIGNED WITH 6-19 POSITIONS

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated Other surface upon request
Inserts (for contacts)	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	> 1000 (Sealcon to Sealcon connector)
Seals / O-Rings	Buna-N (Black) / Optional FKM (Green)
Temperature range	-40 °F – 257 °F (-40 °C – 125 °C)
Type of contacts	Crimp, solder, dip-solder (PCB)
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	.12 – .67" (3 – 17 mm)

The M23 Signal connector is reliable and universally accepted within the connectivity industry. With many pin-out configurations and housing styles, the M23 signal has an option for your application. Available in many locking styles including standard Threaded screw lock, Twilock and Twilock-S 1/4 turn system, which mates to SpeedTEC® by Intercontec/TE Connectivity. EMI ready options! Available in 6, 7, 9, 12, 16, 17 or 19 pole inserts with signal transmission up to 300 Volts and 20 Amps.

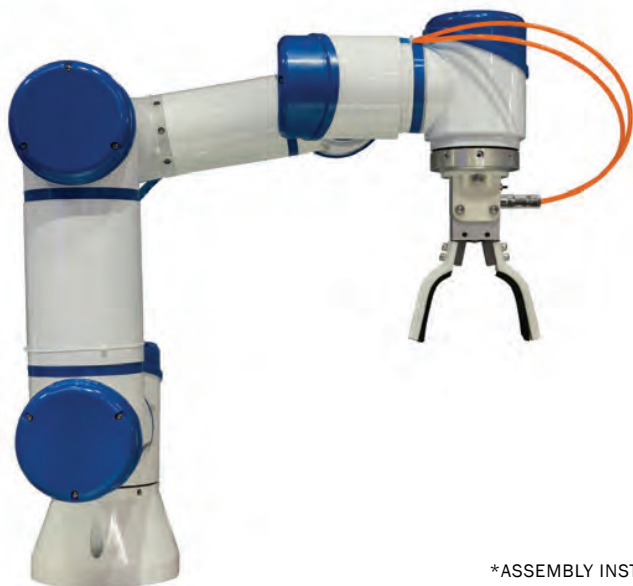


Components Needed For A Complete M23 Signal Connector:

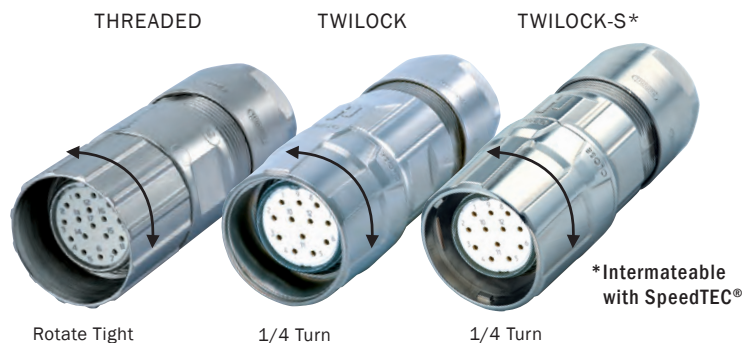
- **HOUSING** (pages 38 - 43)
- **INSERT** (pages 44 - 47)
- **CONTACTS** (if crimp contact insert is selected) (page 48)

Electrical Data

Number of positions	6	7	9 (8 + 1)	12	16	17	19 (16 + 3)
Number of contacts	6	7	8 1	12	16	17	16 3
Contact-Ø [mm]	2	2	1 2	1	1	1	1 1.5
Nominal current [A]	20	20	8 20	8	8	8	8 10
Nominal voltage [V~] degree of protection 3	300	300	200	200	160	160	100
Test voltage (Breakdown voltage) [V~]	2500	2500	2500	2500	1500	1500	1500
Insulation resistance [MΩ]	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ¹⁰	> 10 ⁶	> 10 ⁶	> 10 ⁶
Max. contact resistance [mΩ]	3	3	3	3	3	3	3



CONNECTION SYSTEM TYPES



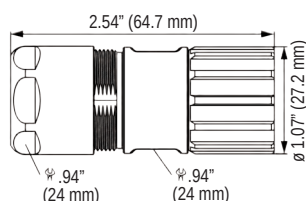
SEE TECHNICAL INFORMATION PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M23 SIGNAL CONNECTORS

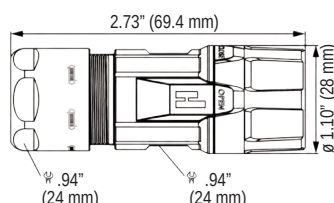
HOUSINGS

M23 Signal Straight Connector, EMI, Female Thread



Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	S7.106.400.000
7 - 12 mm (.28 - .47")	S7.106.500.000
11 - 17 mm (.44 - .67")	S7.106.600.000

M23 Signal Straight Connector, EMI, Female Thread Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

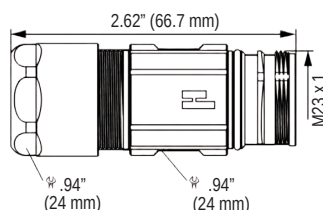


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	⊙ S7.166.400.000
7 - 12 mm (.24 - .47")	⊙ S7.166.500.000
11 - 17 mm (.43 - .67")	⊙ S7.166.600.000

*Intermateable with SpeedTEC® (Twilock-S)

3 - 7 mm (.12 - .28")	⊗ S7.166.400.00S
7 - 12 mm (.24 - .47")	⊗ S7.166.500.00S
11 - 17 mm (.43 - .67")	⊗ S7.166.600.00S

M23 Signal Straight Connector, EMI, Male Thread Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

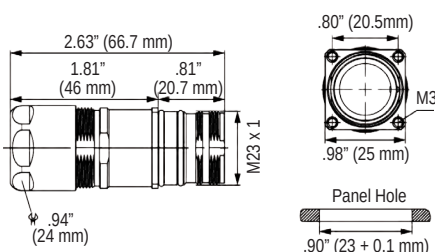


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	⊙ S7.206.400.000
7 - 12 mm (.28 - .47")	⊙ S7.206.500.000
11 - 17 mm (.44 - .67")	⊙ S7.206.600.000

*Intermateable with SpeedTEC® (Twilock-S)

3 - 7 mm (.12 - .28")	⊗ S7.266.400.00S
7 - 12 mm (.24 - .47")	⊗ S7.266.500.00S
11 - 17 mm (.43 - .67")	⊗ S7.266.600.00S

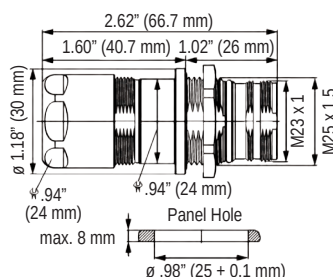
M23 Signal Panel Connector with Strain Relief, EMI, Male Thread



Cable-Ø	Part Number
Rear Mounting, 4 x Threaded M3, Flange 25 x 25 mm	
3 - 7 mm (.12 - .28")	⊗ S7.476.400.000
7 - 12 mm (.28 - .47")	⊗ S7.476.500.000
11 - 17 mm (.44 - .67")	⊗ S7.476.600.000

Optional: Flat gasket....STAD2-7S2510

M23 Signal Panel Connector with Strain Relief, EMI, Male Thread Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect



Cable-Ø	Part Number
Rear Mounting, M25 x 1.5, Single Hole	
3 - 7 mm (.12 - .28")	⊙ S7.486.400.000
7 - 12 mm (.28 - .47")	⊙ S7.486.500.000
11 - 17 mm (.44 - .67")	⊙ S7.486.600.000

*Intermateable with SpeedTEC® (Twilock-S)

3 - 7 mm (.12 - .28")	⊗ S7.486.400.00S
7 - 12 mm (.24 - .47")	⊗ S7.486.500.00S
11 - 17 mm (.43 - .67")	⊗ S7.486.600.00S

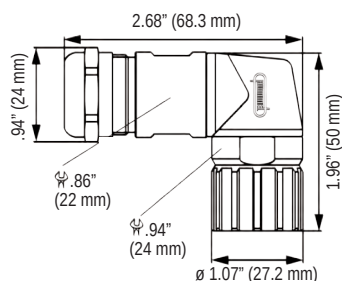
⊙ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M23 SIGNAL CONNECTORS

HOUSINGS

M23 Signal Right Angle Connector, Female Thread, Positioning

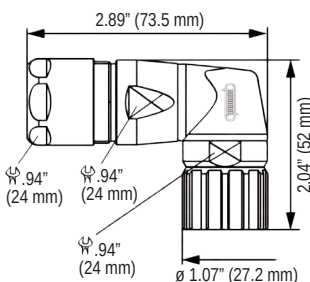


Cable-Ø

Part Number

3 - 7 mm (.12 - .28")	S7.300.300.000
5 - 10 mm (.20 - .39")	S7.300.400.000
7 - 12 mm (.28 - .47")	S7.300.500.000
10 - 14 mm (.39 - .55")	S7.300.600.000

M23 Signal Right Angle Connector, Female Thread, EMI, Positioning

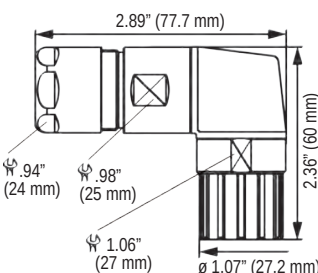


Cable-Ø

Part Number

7 - 12 mm (.28 - .47")	S7.301.500.000
10 - 14 mm (.39 - .55")	S7.301.600.000

M23 Signal Right Angle Connector, EMI, Rotatable

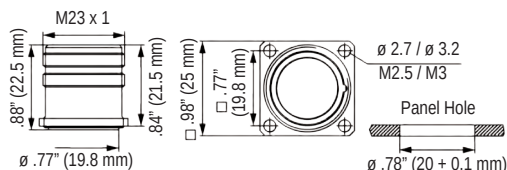


Cable-Ø

Part Number

7 - 12 mm (.28 - .47")	S7.306.500.000
11 - 17 mm (.43 - .67")	S7.306.600.000

M23 Signal Panel Connector, Male Thread, Flange

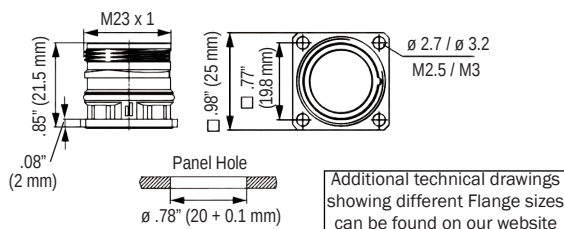


Type

Part Number

Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm	S7.400.000.000
4 x Threaded M3	S7.402.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes Ø 2.7 mm	S7.404.000.000
4 x Threaded M2.5	S7.406.000.000
Optional: Flat Gasket....STAD1-7P2510	

M23 Signal Panel Connector, Male Thread, Flange Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect



Type

Part Number

Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm	S7.410.000.000
4 x Threaded M3	S7.412.000.000
Optional: Flat Gasket....STAD2-7P2510	
4 x Holes Ø 2.7 mm	S7.414.000.000
4 x Threaded M2.5	S7.416.000.000
Optional: Flat Gasket....STAD1-7P2510	

*Intermateable with SpeedTEC® (Twilock-S)

4 x Holes 3.2 mm, Flange 25 x 25 mm...	S7.410.000.00S
Optional: Flat Gasket....STAD2-7P2510	
4 x Holes 3.2 mm, Flange 28 x 28 mm...	S7.410.100.00S

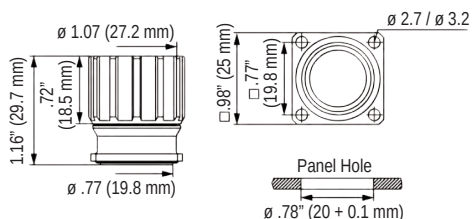
MATES WITH TWILOCK SYSTEM

DOES NOT MATE WITH TWILOCK SYSTEM

M23 SIGNAL CONNECTORS

HOUSINGS

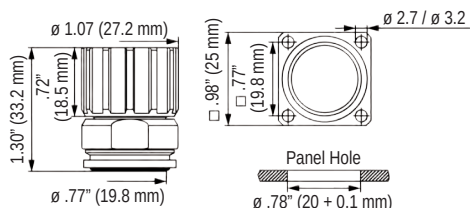
M23 Signal Panel Connector, Female Thread, w/ Knurled Nut, Flange



Type	Part Number
Front Mounting, without Coding Option, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	S7.440.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes Ø 2.7 mm.....	S7.444.000.000

Optional: Flat Gasket....STAD1-7P2510

M23 Signal Panel Connector, Female Thread, Knurled Nut, Positionable

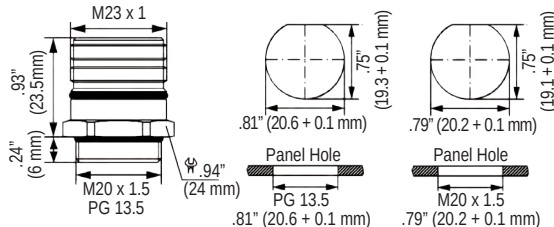


Type	Part Number
Front Mounting, with Coding Option (8 x 45°), Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	S7.448.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes Ø 2.7 mm.....	S7.449.000.000

Optional: Flat gasket....STAD1-7P2510

M23 Signal Panel Connector, Single Hole, Male Thread

HOUSING FOR MALE INSERTS ONLY

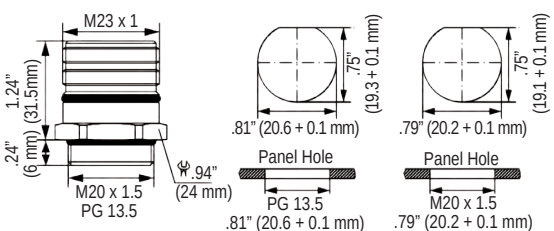


Type	Part Number
Front Mounting for Male Inserts, Single Hole	
Thread M20 x 1.5.....	S7.420.000.000
Thread PG 13.5	S7.422.000.000

Optional: Hex Locking Nut M20 x 1.5 / PG 13.5

M23 Signal Panel Connector, Single Hole, Male Thread

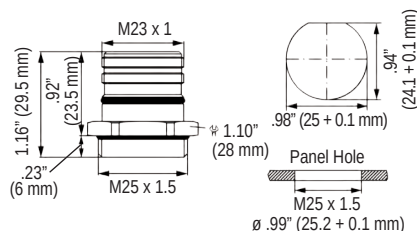
HOUSING FOR FEMALE INSERTS ONLY



Type	Part Number
Front Mounting for Female Inserts, Single Hole	
Thread M20 x 1.5.....	S7.421.000.000
Thread PG 13.5	S7.423.000.000

Optional: Hex Locking Nut M20 x 1.5 / PG 13.5

M23 Signal Panel Connector, Single Hole, Male Thread



Type	Part Number
Front Mounting, Single Hole for Insert with Pins / Sockets	
Thread M25 x 1.5.....	S7.425.000.000

Optional: Hex Locking Nut M25 x 1.5

⊗ MATES WITH TWILOK SYSTEM

⊗ DOES NOT MATE WITH TWILOK SYSTEM

M23 SIGNAL CONNECTORS

HOUSINGS

M23 Signal Right Angle Panel Connector, Male Thread, Fixed Flange

Type

Part Number

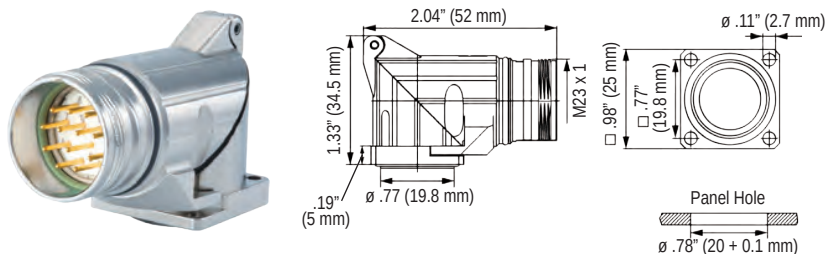
Fixed Mounting, Flange 25 x 25 mm

4 x Holes Ø 2.7 mm.....S7.435.000.000

Optional: Flat gasket....STAD1-7P2510

Easy Fastening with:

M2.5 x 10 mm Screws



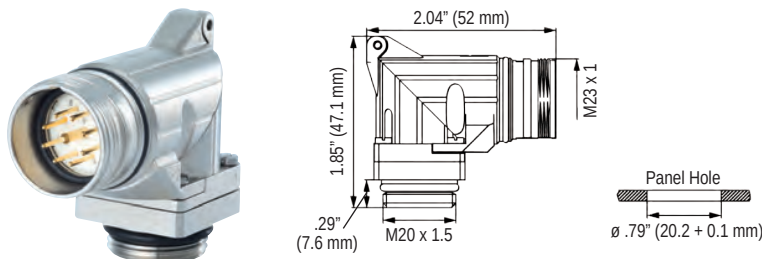
M23 Signal Right Angle Panel Connector, Male Thread, Rotatable 335°

Type

Part Number

335° Rotatable, Hole Mounted

Thread M20 x 1.5.....S7.431.000.000



M23 Right Angle Panel Connector, Male Thread, Rotatable 330° Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

Type

Part Number

330° Rotatable, Flange 25 x 25 mm

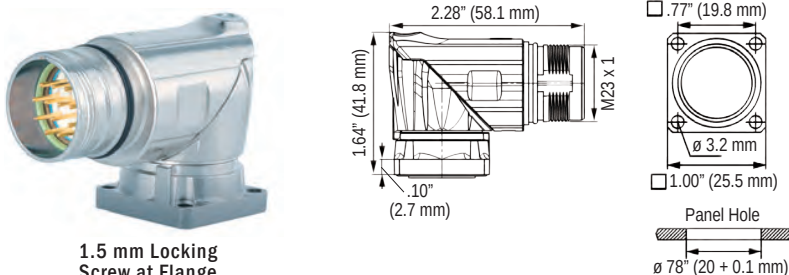
4 x Holes Ø 3.2 mm.....S7.439.000.000

Optional: Flat gasket....STAD1-7P2510

*Intermatable with SpeedTEC® (Twilock-S)

4 x Holes Ø 3.2 mm.....S7.439.000.00S

Optional: Flat gasket....STAD1-7P2510



1.5 mm Locking
Screw at Flange

M23 Right Angle Panel Connector, Male Thread, Rotatable 330° Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

Type

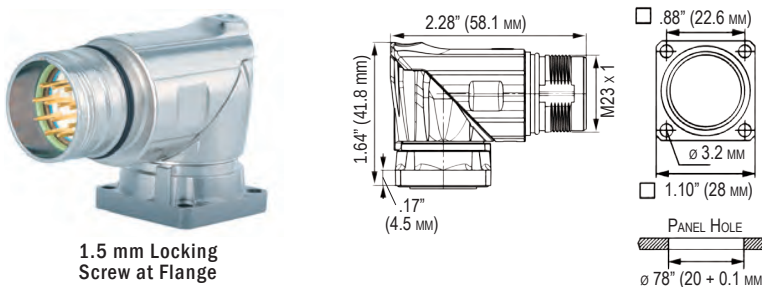
Part Number

330° Rotatable, Flange 28 x 28 mm

4 x Holes Ø 3.2 mm.....S7.439.100.000

*Intermatable with SpeedTEC® (Twilock-S)

4 x Holes Ø 3.2 mm.....S7.439.100.00S



1.5 mm Locking
Screw at Flange

M23 Right Angle Panel Connector, Male Thread, Rotatable 300°

Type

Part Number

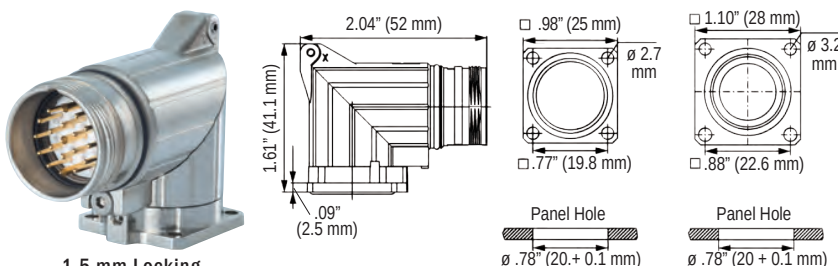
300° Rotatable, 4 x Holes Ø 2.7 mm, Flange

Flange 25 x 25 mm.....S7.433.000.000

Optional: Flat gasket....STAD1-7P2510

300° Rotatable, 4 x Holes Ø 3.2 mm, Flange

Flange 28 x 28 mm.....S7.433.100.000



1.5 mm Locking
Screw at Flange

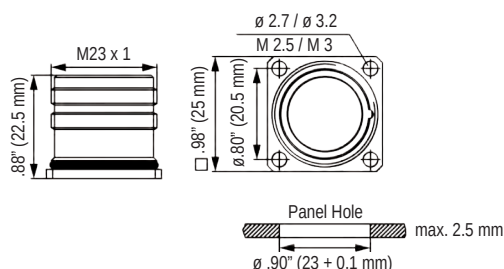
⊕ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M23 SIGNAL CONNECTORS

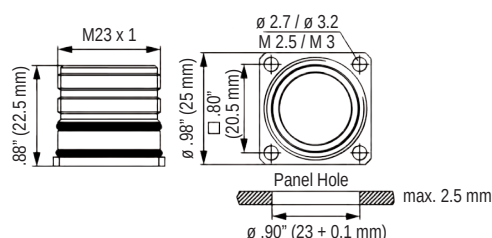
HOUSINGS

M23 Signal Panel Connector, Male Thread, Flange



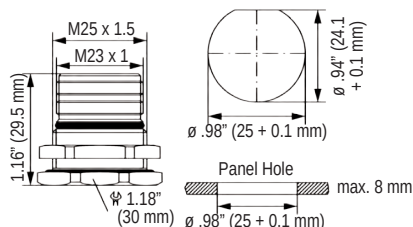
Type	Part Number
Rear Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	S7.450.000.000
4 x Threaded M3.....	S7.452.000.000
Optional: Flat gasket....	STAD4-7P2510
4 x Holes Ø 2.7 mm.....	S7.454.000.000
4 x Threaded M2.5.....	S7.456.000.000
Optional: Flat gasket....	STAD3-7P2510

M23 Signal Panel Connector, Male Thread, Flange Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect



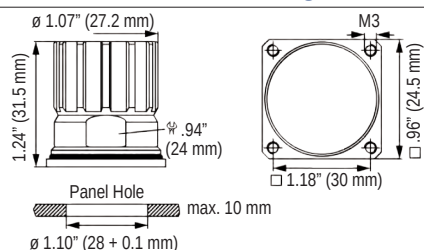
Type	Part Number
Rear Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	S7.460.000.000
4 x Threaded M3.....	S7.462.000.000
Optional: Flat gasket....	STAD4-7P2510
4 x Holes Ø 2.7 mm.....	S7.464.000.000
4 x Threaded M2.5.....	S7.466.000.000
Optional: Flat gasket....	STAD3-7P2510
*Intermateable with SpeedTEC® (Twilock-S)	
4 x Threaded M3.....	S7.462.000.00S
Optional: Flat gasket....	STAD4-7P2510

M23 Signal Panel Connector, Male Thread, Single Hole Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect



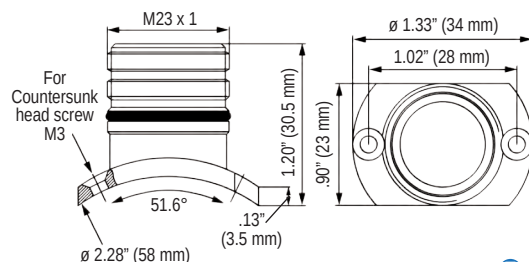
Type	Part Number
Single Hole, Rear Mounting	
Thread M25 x 1.5.....	S7.458.000.000
*Intermateable with SpeedTEC® (Twilock-S)	
Thread M25 x 1.5.....	S7.458.000.00S
Including Hex Locking Nut M25 x 1.5	

M23 Signal Panel Connector, Female Thread, Flange



Type	Part Number
Rear Mounting with Knurled Nut, Flange 24.5 x 24.5 mm	
4 x Threaded M3.....	S7.459.000.000

M23 Signal Panel Connector with Radius Flange (51.6°), Male Thread



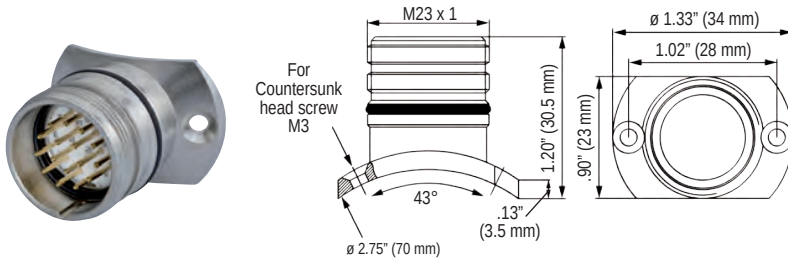
Type	Part Number
51.6° Radius Flange, 2 x Threaded M3, Front Mounting	
Flat Body Gasket	
Ø 58 mm (2.28").....	S7.490.000.000

MATES WITH TWILOCK SYSTEM

DOES NOT MATE WITH TWILOCK SYSTEM

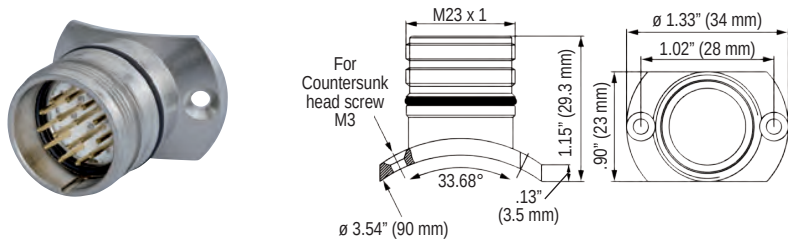
M23 Signal Panel Connector with Radius Flange (43°), Male Thread

Type	Part Number
43° Radius Flange, 2 x Threaded M3, Front Mounting Flat Body Gasket Ø 70 mm (2.76")	 S7.491.000.000



M23 Signal Panel Connector with Radius Flange (33.68°), Male Thread

Type	Part Number
33.68° Radius Flange, 2 x Threaded M3, Front Mounting Flat Body Gasket Ø 90 mm (3.54")	 S7.492.000.000



M23 Signal Accessories

	Plastic Protective Cap for connectors with Male thread..... S7.000.900.101 with Female thread S7.000.900.102
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	Brass Protective Cap for connectors with Female thread  S7.010.900.103
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	Brass Protective Cap for connectors with Male thread S7.010.900.102
---	--

	Tool Adapter for tightening or loosening knurled nuts for M23 S7.010.900.192
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	Adapter Flange for Straight Connectors.....  S7.010.900.128
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	Conduit Adapter Nylon Conduit DN 12..... S7.010.900.205 Nylon Conduit DN 14..... S7.010.900.207 Nylon Conduit DN 17..... S7.010.900.209
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	Assembly Tool S7.010.900.101
---	------------------------------------

	Bus End Connector S7.105.000.000
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	Brass Protective Cap with chain for connectors with Female thread Length 70 mm.....  S7.010.9S0.703 Length 100 mm.....  S7.010.9S1.003
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	Brass Protective Cap with chain for connectors with Male thread Length 70 mm..... S7.010.9S0.702 Length 100 mm..... S7.010.9S1.002
---	---

	Screw Tool, adjustable 0.5 - 1.7 Nm S7.010.900.190
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	Crimp Tool for manual crimping of machined crimp contacts for signal connectors..... S7.000.900.904
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	Positioner for Crimp Tool DMC M22520 S7.000.900.DMC
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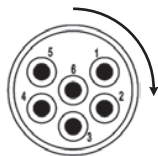
	Locator for Crimp Tool DMC M22520 with positioner S7.000.9DM.C03 For Sealcon Contact: S7.010.901.001, S7.010.901.501, S7.010.902.001, S7.010.901.031
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	Locator for Crimp Tool DMC M22520 with positioner S7.000.9DM.C04 For Sealcon Contact: S7.010.901.012, S7.010.901.002, S7.010.901.512, S7.010.901.502, S7.010.902.002
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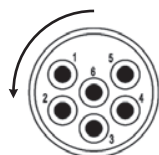
M23 SIGNAL CONNECTORS

INSERTS

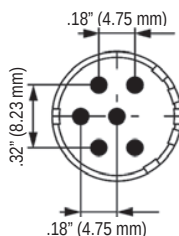
Inserts 6-pole



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)



Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.906.103.....	S7.001.906.104
Insert without contacts.....	S7.003.906.101.....	S7.003.906.102

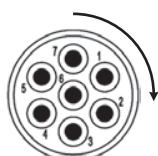
Insert with dip solder contacts
Length 3.5 mm.....S7.001.906.107

Insert with dip solder contacts
Length 10 mm.....S7.001.906.127.....S7.001.906.108

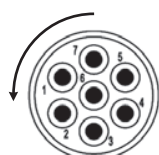
Insert with dip solder contacts
Length 17 mm.....S7.001.906.137.....S7.001.906.118

THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS
ON THE PARTICULAR TYPE OF HOUSING.
CODING POSSIBILITIES N, S, H, X, Y AND Z

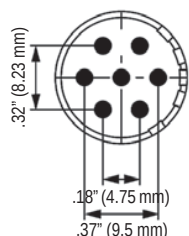
Inserts 7-pole



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)



Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.907.103.....	S7.001.907.104
Insert without contacts.....	S7.003.907.101.....	S7.003.907.102

Insert with dip solder contacts
Length 3.5 mm.....S7.001.907.107

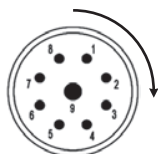
Insert with dip solder contacts
Length 10 mm.....S7.001.907.127.....S7.001.907.108

Insert with dip solder contacts
Length 17 mm.....S7.001.907.137.....S7.001.907.118

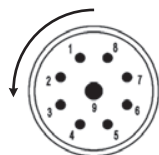
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS
ON THE PARTICULAR TYPE OF HOUSING.

CODING POSSIBILITIES N, S, H, X AND Y

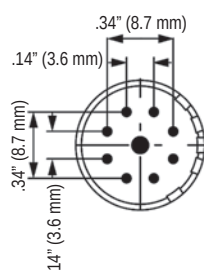
Inserts 9-pole (8 + 1)



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)



Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.981.103.....	S7.001.981.104
Insert without contacts.....	S7.003.981.101.....	S7.003.981.102

Insert with dip solder contacts
Length 3.5 mm.....S7.001.981.107

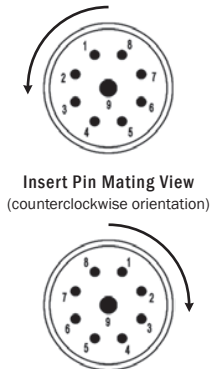
Insert with dip solder contacts
Length 10 mm.....S7.001.981.127.....S7.001.981.108

Insert with dip solder contacts
Length 17 mm.....S7.001.981.137.....S7.001.981.118

THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS
ON THE PARTICULAR TYPE OF HOUSING.

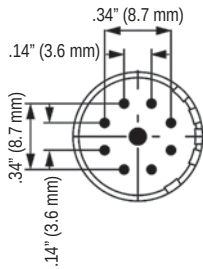
CODING POSSIBILITIES N, S, H, X AND Y

Inserts 9-pole (8 + 1)



Insert Pin Mating View
(counterclockwise orientation)

Insert Socket Mating View
(clockwise orientation)



CODING POSSIBILITIES N, S, H, X, AND Y

Type	Part Number	Part Number
Pinout counterclockwise	Pins	Sockets
Insert with solder contacts	S7.002.981.103.....	S7.002.981.104
Insert without contacts.....	S7.004.981.101.....	S7.004.981.102

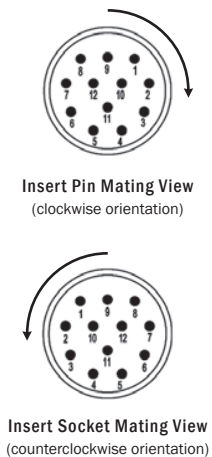
Insert with dip solder contacts
Length 3.5 mm.....S7.002.981.107

Insert with dip solder contacts
Length 10 mm.....S7.002.981.127.....S7.002.981.108

Insert with dip solder contacts
Length 17 mm.....S7.002.981.13.....S7.002.981.118

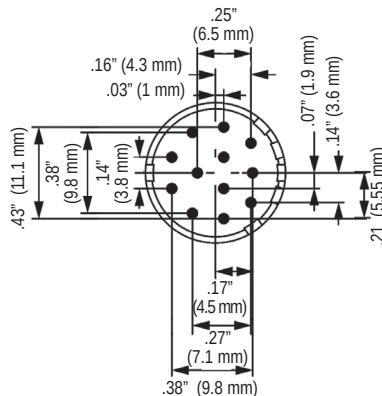
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

Inserts 12-pole



Insert Pin Mating View
(clockwise orientation)

Insert Socket Mating View
(counterclockwise orientation)



CODING POSSIBILITIES N, S, H, X, Y AND Z

Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.912.103.....	S7.001.912.104

Insert with solder contacts

Insert without contacts.....

Insert without contacts

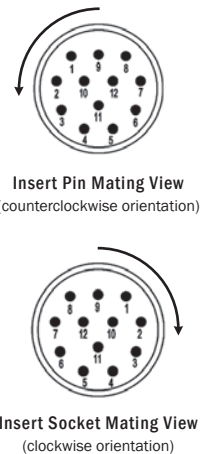
Insert with dip solder contacts
Length 3.5 mm.....S7.001.912.107

Insert with dip solder contacts
Length 10 mm.....S7.001.912.127.....S7.001.912.108

Insert with dip solder contacts
Length 17 mmS7.001.912.137.....S7.001.912.118

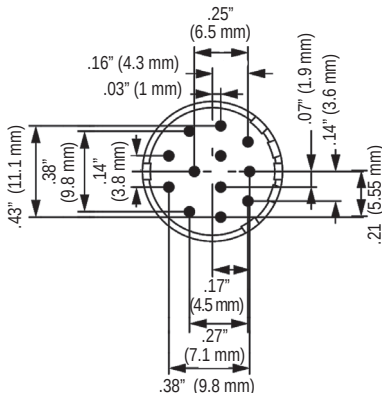
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

Inserts 12-pole



Insert Pin Mating View
(counterclockwise orientation)

Insert Socket Mating View
(clockwise orientation)



CODING POSSIBILITIES N, S, H, X, Y AND Z

Type	Part Number	Part Number
Pinout counterclockwise	Pins	Sockets
Insert with solder contacts	S7.002.912.103.....	S7.002.912.104

Insert w solder contacts

Insert without contacts.....

Insert wo contacts +PE (Pos.9).....

Insert with dip solder contacts
Length 3.5 mm.....S7.002.912.107

Insert with dip solder contacts
Length 10 mm.....S7.002.912.127.....S7.002.912.108

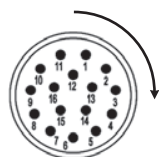
Insert with dip solder contacts
Length 17 mm.....S7.002.912.137.....S7.002.912.118

THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

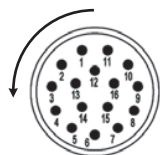
M23 SIGNAL CONNECTORS

INSERTS

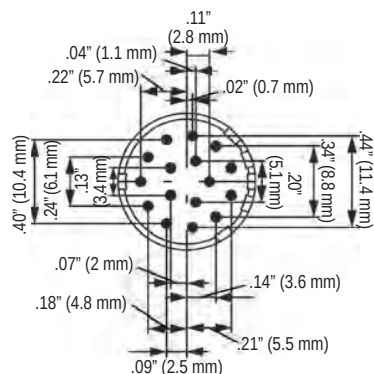
Inserts 16-pole



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)

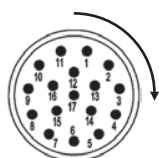


Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.916.103.....	S7.001.916.104
Insert without contacts.....	S7.003.916.101.....	S7.003.916.102
Insert with dip solder contacts Length 3.5 mm.....	S7.001.916.107	
Insert with dip solder contacts Length 10 mm.....	S7.001.916.127.....	S7.001.916.108
Insert with dip solder contacts Length 17 mm.....	S7.001.916.137.....	S7.001.916.118

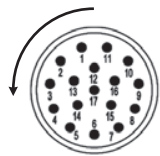
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

CODING POSSIBILITIES N, S, H, X, Y AND Z

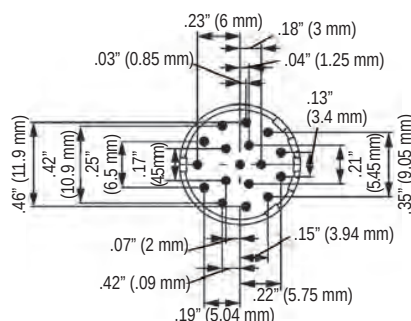
Inserts 17-pole



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)

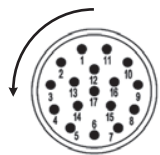


Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.917.103.....	S7.001.917.104
Insert without contacts.....	S7.003.917.101.....	S7.003.917.102
Insert with dip solder contacts Length 3.5 mm.....	S7.001.917.107	
Insert with dip solder contacts Length 10 mm.....	S7.001.917.127.....	S7.001.917.108
Insert with dip solder contacts Length 17 mm.....	S7.001.917.137.....	S7.001.917.118

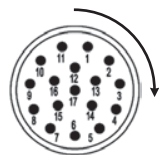
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

CODING POSSIBILITIES N, S, H, X, Y AND Z

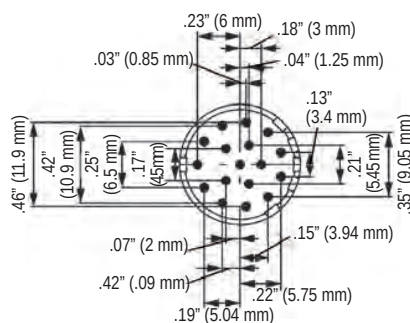
Inserts 17-pole



Insert Pin Mating View
(counterclockwise orientation)



Insert Socket Mating View
(clockwise orientation)



Type	Part Number	Part Number
Pinout counterclockwise	Pins	Sockets
Insert with solder contacts	S7.002.917.103.....	S7.002.917.104
Insert without contacts.....	S7.004.917.101.....	S7.004.917.102
Insert with dip solder contacts Length 3.5 mm.....	S7.002.917.107	
Insert with dip solder contacts Length 10 mm.....	S7.002.917.127.....	S7.002.917.108
Insert with dip solder contacts Length 17 mm.....	S7.002.917.137.....	S7.002.917.118

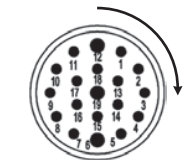
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

CODING POSSIBILITIES N, S, H, X, Y AND Z

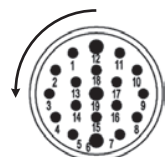
M23 SIGNAL CONNECTORS

INSERTS

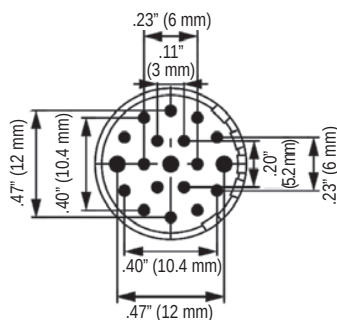
Inserts 19-pole



Insert Pin Mating View
(clockwise orientation)



Insert Socket Mating View
(counterclockwise orientation)



CODING POSSIBILITIES N, S, H, X AND Y

Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.919.103.....	S7.001.919.104
Insert with solder contacts	S7.001.919.113.....	S7.001.919.114
+ PE (Pos.12)		
Insert with solder contacts + PE (Pos.12) 1.5 mm elongated	S7.001.919.123	
Insert without contacts.....	S7.003.919.101.....	S7.003.919.102
Insert without contacts	S7.003.919.111.....	S7.003.919.112
+ PE (Pos.12)		
Insert with dip solder contacts		
Length 3.5 mm.....	S7.001.919.107	
Insert with dip solder contacts		
Length 10 mm.....	S7.001.919.127.....	S7.001.919.108
Insert with dip solder contacts		
Length 17 mm.....	S7.001.919.137.....	S7.001.919.118

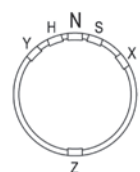
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.

M23 Signal Contact Arrangement

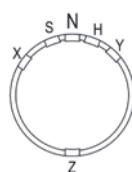
Number of Poles	Required Contacts
6	6 x 2 mm
7	7 x 2 mm
9 (8 + 1)	8 x 1 mm
.....	1 x 2 mm
12	12 x 1 mm
16	16 x 1 mm
17	17 x 1 mm
19	16 x 1 mm
.....	3 x 1.5 mm
10	Housings and contacts 10-pole, see chapter "M23 Power, M23 Hybrid" Page 56

M23 SIGNAL CONNECTORS

CODING OPTIONS, CONTACTS



Female Inserts
Mating View



Male Inserts
Mating View

M23 Signal Coding

Number of Poles

Coding Possibilities

6-pole.....	N, S, H, X, Y and Z
7-pole	N, S, H, X and Y
9-pole	N, S, H, X and Y
12-pole.....	N, S, H, X, Y and Z
16-pole.....	N, S, H, X, Y and Z
17-pole.....	N, S, H, X, Y and Z
19-pole	N, S, H, X and Y

AS STANDARD, CODING GROOVE N IS OPENED.

TO USE OTHER CODINGS, PLEASE REMOVE THE CODING BARRIER.

M23 Signal Contacts	Type	Crimp Range	Part Number
	Crimp Pin 1 mm, machined.....	0.08 – 0.56 mm ² (AWG 28 – 20).....	S7.010.901.031
	Crimp Pin 1 mm, machined.....	0.14 – 1 mm ² (AWG 26 – 17).....	S7.010.901.001
	Crimp Pin 1 mm, machined.....	0.75 – 1.5 mm ² (AWG 17 – 16).....	S7.010.901.021
	Crimp Socket 1 mm, machined.....	0.08 – 0.56 mm ² (AWG 28 – 20).....	S7.010.901.012
	Crimp Socket 1 mm, machined.....	0.34 – 1 mm ² (AWG 22 – 17)	S7.010.901.002
	Crimp Socket 1 mm, machined.....	0.75 – 1.5 mm ² (AWG 17 – 16).....	S7.010.901.022
	Crimp Pin 1 mm, stamped.....	0.14 – 0.56 mm ² (AWG 26 – 20).....	Upon Request
	Crimp Socket 1 mm, stamped.....	0.14 – 0.56 mm ² (AWG 26 – 20).....	Upon Request
	Crimp Pin 1.5 mm, machined.....	0.14 – 1 mm ² (AWG 26 – 17).....	S7.010.901.501
	Crimp Socket 1.5 mm, machined	0.14 – 0.56 mm ² (AWG 26 – 20).....	S7.010.901.512
	Crimp Socket 1.5 mm, machined.....	0.56 – 1 mm ² (AWG 20 – 17).....	S7.010.901.502
	Crimp Pin 2 mm, machined.....	0.75 – 2.5 mm ² (AWG 18 – 14).....	S7.010.902.001
	Crimp Socket 2 mm, machined.....	0.75 – 2.5 mm ² (AWG 18 – 14).....	S7.010.902.002



M23 POWER, M23 HYBRID CONNECTORS

HIGH POWER AND MULTIPLE OPTIONS

The M23 Power connector is diverse with many pin-out configurations and housing styles. Connection styles include standard Threaded screw lock, Twilock and Twilock-S 1/4 turn system, which mates to SpeedTEC® by Intercontec/ TE Connectivity. EMI ready options! Available in 6, 8, 9, 10 or 12 pole inserts with power transmission up to 600 Volts and 28 Amps as well as a Hybrid Insert.



HYBRID INSERT
AVAILABLE ON
PAGE 56.
INSERT FITS
STANDARD M23
POWER SHELL.

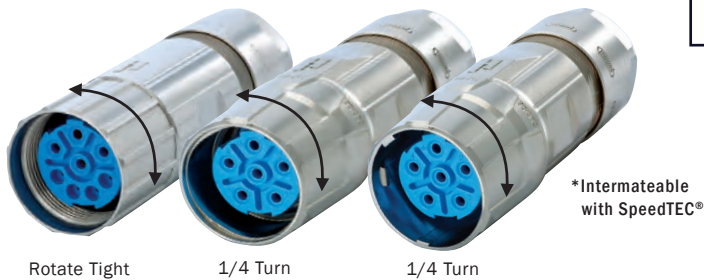


CONNECTION SYSTEM TYPES

THREADED

TWILOCK

TWILOCK-S*



*Intermateable
with SpeedTEC®

Components Needed For A Complete M23 Power Connector:

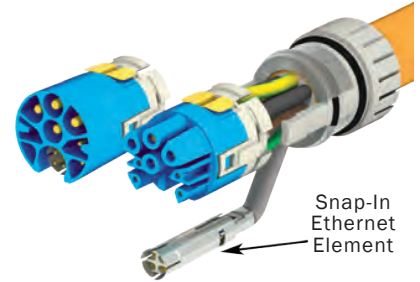
- **HOUSING** (pages 51 - 54)
- **INSERT** (page 56)
- **CONTACTS** (page 56)

HYBRID INSERT

HYPERFACE
DSL & EnDat 2.2

Allowing Data Transfer
up to 500 Mbit/s

< Cat 5e



Electrical Data

Number of positions	5 + PE	4 + 3 + PE		5 + 3 + PE		10
Number of contacts	6	4	4	5	4	10
Contact-Ø [mm]	2	1	2	1	2	1
Nominal current [A]	28	8	28	10	28	10
Nominal voltage [V~] degree of protection 3	600	300	600	250	600	160
Test voltage (Breakdown voltage) [V~]	4000	2500	4000	2500	4000	2500
Insulation resistance [MΩ]	> 10 ¹³	> 10 ¹³		> 10 ¹³		> 10 ¹³
Max. contact resistance [mΩ]	3	3		3	3	3

M23 Hybrid Electrical Data

Number of positions	4 + 4 + 3 + PE		
Number of contacts	POWER 4	SIGNAL 4	ETHERNET 4
Contact-Ø [mm]	2	1	0.6
[mm ²] (AWG)	0.75 - 4 (18 - 12)	0.14 - 1 (26 - 17)	0.08 - 0.34 (28 - 22)
Nominal current [A]	28	8	2
Nominal voltage [V~] degree of protection 3	600	300	60
Test voltage (Breakdown voltage) [V~]	4000	2500	500
Insulation resistance [MΩ]	> 10 ¹³	> 10 ¹⁰	> 10 ⁶
Max. contact resistance [mΩ]	< 3	< 3	< 3
Hybrid Connector Ethernet Capabilities			5e

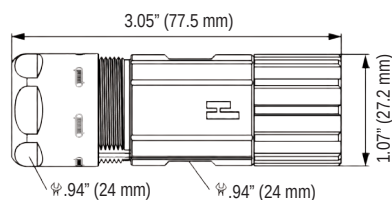
SEE TECHNICAL INFORMATION ON PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

M23 Power Straight Connector, EMI, Female Thread

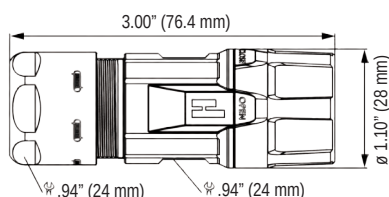


Cable-Ø

Part Number

7 - 12 mm (.27 - .47")	S7.550.500.000
11 - 17 mm (.43 - .67")	S7.550.600.000

M23 Power Straight Connector, EMI, Female Thread Standard Threaded and TWILOCK/TWILOCK-S* Quick Connect



Cable-Ø

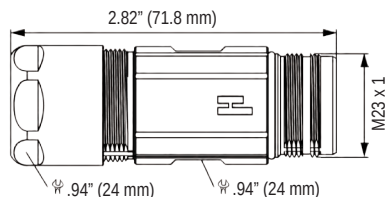
Part Number

7 - 12 mm (.24 - .47")	⊗ S7.556.500.000
11 - 17 mm (.43 - .67")	⊗ S7.556.600.000

*Intermateable with SpeedTEC® (Twilock-S)

7 - 12 mm (.24 - .47")	⊗ S7.556.500.00S
11 - 17 mm (.43 - .67")	⊗ S7.556.600.00S

M23 Power Straight Connector, EMI, Male Thread Standard Threaded and TWILOCK/TWILOCK-S* Quick Connect



Cable-Ø

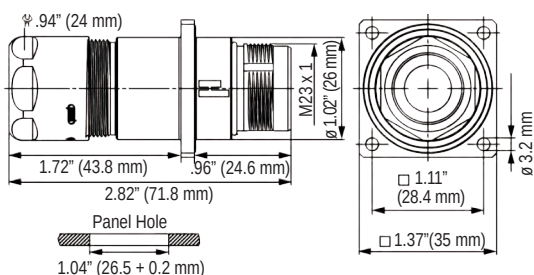
Part Number

7 - 12 mm (.27 - .47")	⊗ S7.560.500.000
11 - 17 mm (.43 - .67")	⊗ S7.560.600.000

*Intermateable with SpeedTEC® (Twilock-S)

7 - 12 mm (.24 - .47")	⊗ S7.566.500.00S
11 - 17 mm (.43 - .67")	⊗ S7.566.600.00S

M23 Power Panel Connector with Strain Relief, EMI, Male Thread



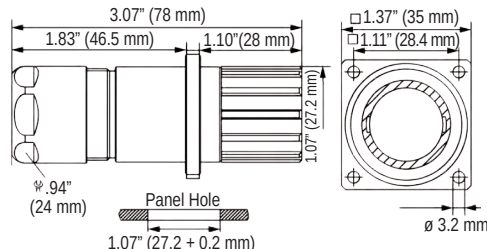
Cable-Ø

Part Number

Front or Rear Mounting, 4 x Holes Ø 3.2 mm, Flange 35 x 35 mm	
7 - 12 mm (.27 - .47")	⊗ S7.683.500.000
11 - 17 mm (.43 - .67")	⊗ S7.683.600.000

Flange 35 x 35 mm

M23 Power Panel Connector with Strain Relief, EMI, Female Thread



Cable-Ø

Part Number

Front or Rear Mounting, 4 x Holes Ø 3.2 mm, Flange 35 x 35 mm	
7 - 12 mm (.27 - .47")	S7.681.500.000
11 - 17 mm (.43 - .67")	S7.681.600.000

Flange 35 x 35 mm

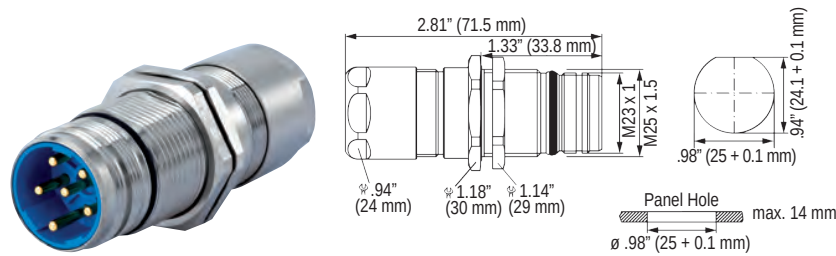
⊗ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

M23 Power Panel Connector w/ Strain Relief, EMI, Single Hole, Male Thread Standard Threaded and TWILOCK/TWILOCK-S* - Quick Connect



Cable-Ø	Part Number
Rear Mounting, Single Hole, Thread M25 x 1.5, 7 - 12 mm (.27 - .47").....	⊕ S7.653.500.000
11 - 17 mm (.43 - .67").....	⊕ S7.653.600.000
*Intermateable with SpeedTEC® (Twilock-S)	
7 - 12 mm (.24 - .47").....	⊗ S7.653.500.00S
11 - 17 mm (.43 - .67").....	⊗ S7.653.600.00S
Including Hex Locking Nut M25 x 1.5	

M23 Power Right Angle Connector, EMI, Female Thread, Rotatable



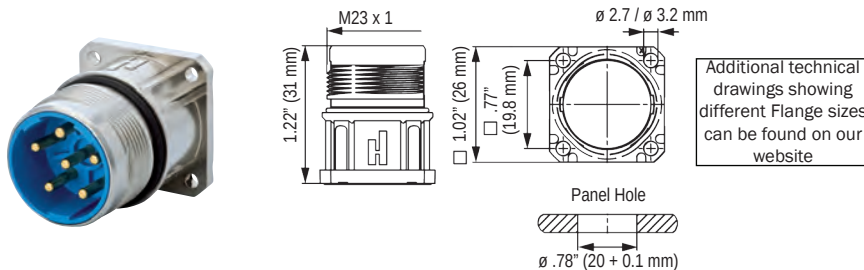
Cable-Ø	Part Number
7 - 12 mm (.27 - .47").....	S7.576.500.000
11 - 17 mm (.43 - .67").....	S7.576.600.000

M23 Power Right Angle Connector, EMI, Male Thread, Rotatable



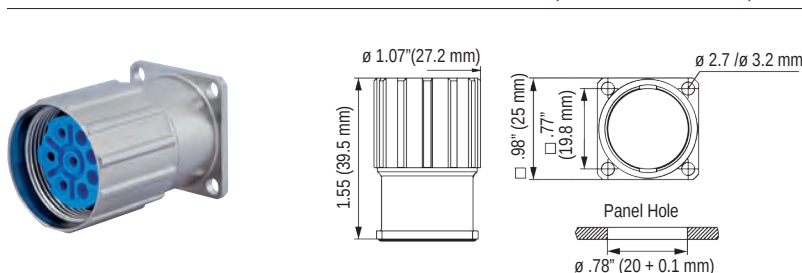
Cable-Ø	Part Number
7 - 12 mm (.27 - .47").....	⊗ S7.580.500.000
10 - 14 mm (.39 - .55").....	⊗ S7.580.600.000

M23 Power Panel Connectors, Male Thread, Flange Standard Threaded and TWILOCK/TWILOCK-S* - Quick Connect



Type	Part Number
Front Mounting, Flange 26 x 26 mm	
4 x Holes Ø 3.2 mm.....	⊕ S7.601.000.000
4 x Holes Ø 2.7 mm.....	⊕ S7.605.000.000
*Intermateable with SpeedTEC® (Twilock-S)	
4 x Holes 3.2 mm, Flange 25 x 25.....	⊗ S7.601.000.00S
4 x Holes 3.2 mm, Flange 28 x 28.....	⊗ S7.601.100.00S

M23 Power Panel Connector with Knurled Nut, Female Thread, Flange



Type	Part Number
Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	⊕ S7.641.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes Ø 2.7 mm.....	⊕ S7.645.000.000
Optional: Flat gasket....STAD1-7P2510	

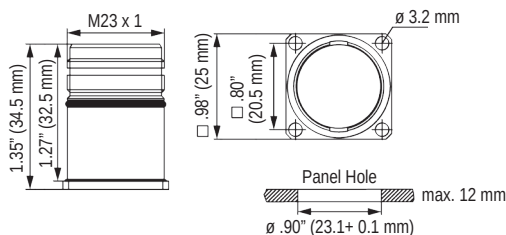
⊕ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

M23 Power Panel Connector, Male Thread, Flange



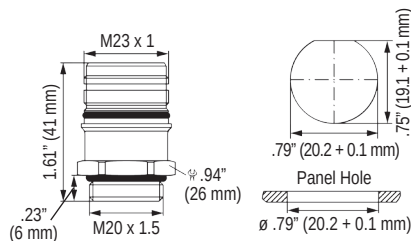
Type

Part Number

Rear Mounting, Flange 25 x 25 mm

4 x Holes Ø 3.2 mm..... S7.661.000.000

M23 Power Panel Connector, Male Thread, Single Hole, M20



Type

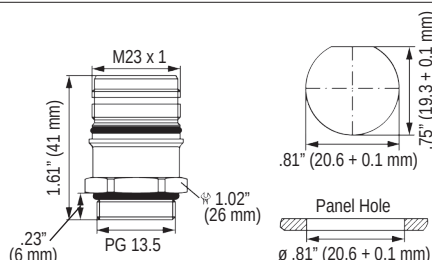
Part Number

Front Mounting, Single Hole

Thread M20 x 1.5..... S7.621.000.000

Options: Flat gasket, Hex Locking Nut M20 x 1.5

M23 Power Panel Connector, Male Thread, Single Hole, PG 13.5



Type

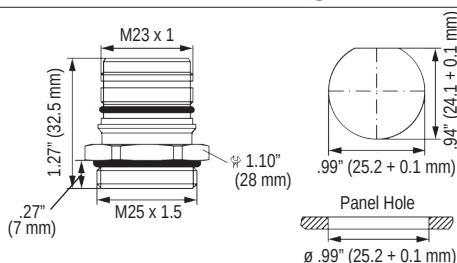
Part Number

Front Mounting, Single Hole

Thread PG 13.5..... S7.623.000.000

Options: Flat gasket, Hex Locking Nut PG 13.5

M23 Power Panel Connector, Male Thread, Single Hole, M25



Type

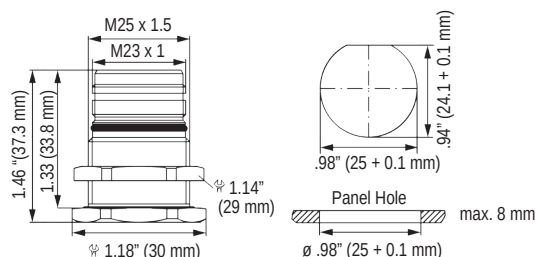
Part Number

Front Mounting, Single Hole

Thread M25x1.5..... S7.626.000.000

Options: Flat gasket, Hex Locking Nut M25 x 1.5

M23 Power Panel Connector, Male Thread, Single Hole, M25



Type

Part Number

Rear Mounting, Single Hole

Thread M25 x 1.5..... S7.651.000.000

Including Hex Locking Nut M25 x 1.5

MATES WITH TWILOK SYSTEM

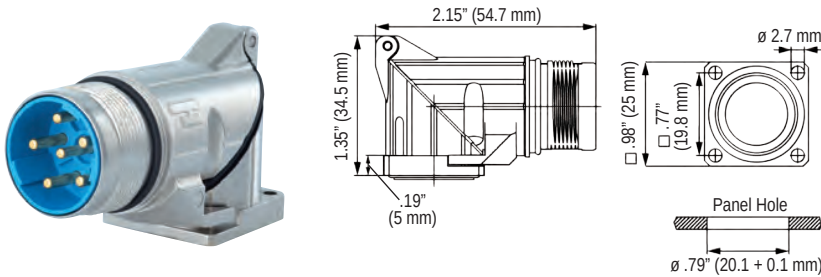
DOES NOT MATE WITH TWILOK SYSTEM

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

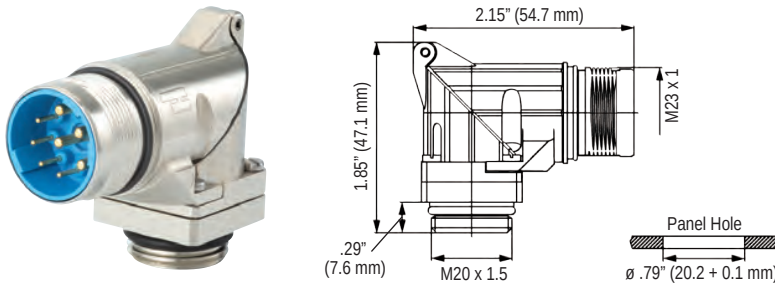
M23 Power Right Angle Panel Connector, Male Thread, Fixed Flange

Type	Part Number
Fixed Panel Mount, Flange 25 x 25 mm 4 x Holes Ø 2.7 mm.....	S7.635.000.000
Optional: Flat gasket....STAD1-7P2510	
Easy Fastening with: M2.5 x 10 mm or .39" Long Screws	



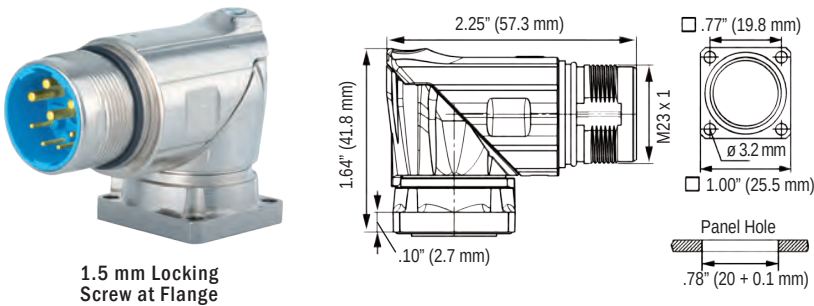
M23 Power Right Angle Panel Connector, Male Thread, Rotatable 335°

Type	Part Number
335° Rotatable, Hole Mounted Thread M20 x 1.5.....	S7.636.000.000



M23 Power Right Angle Panel Connector, Male Thread, Rotatable 330° Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

Type	Part Number
330° Rotatable, Flange 25 x 25 mm 4 x Holes Ø 3.2 mm.....	S7.639.000.000
Optional: Flat gasket....STAD1-7P2510	
* Intermateable with SpeedTEC® (Twilock-S) 4 x Holes Ø 3.2 mm.....	S7.639.000.00S
Optional: Flat gasket....STAD1-7P2510	

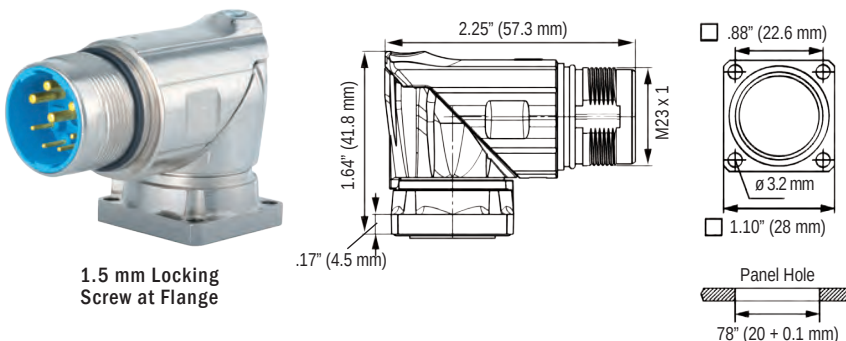


1.5 mm Locking
Screw at Flange

TWILOCK-S OPTIONS DO NOT COME
WITH A SEAL RING.

M23 Power Right Angle Panel Connector, Male Thread, Rotatable 330° Standard Threaded and TWILOCK/TWILOCK-S*- Quick Connect

Type	Part Number
330° Rotatable, Flange 28 x 28 mm 4 x Holes Ø 3.2 mm.....	S7.639.100.000
* Intermateable with SpeedTEC® (Twilock-S) 4 x Holes Ø 3.2 mm.....	S7.639.100.00S



1.5 mm Locking
Screw at Flange

TWILOCK-S OPTIONS DO NOT
COME WITH A SEAL RING.

MATES WITH TWILOCK SYSTEM DOES NOT MATE WITH TWILOCK SYSTEM

M23 POWER, M23 HYBRID CONNECTORS

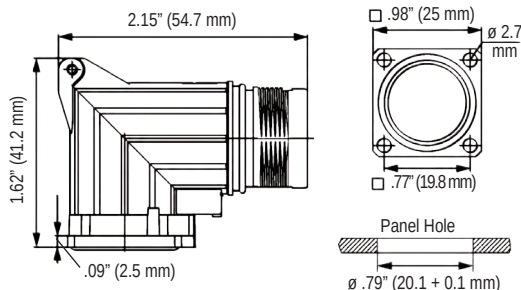
HOUSING, ACCESSORIES

M23 Power Right Angle Panel Connector, Male Thread, Rotatable 300°

Type	Part Number
300° Rotatable, Flange 25 x 25 mm 4 x Holes Ø 2.7 mm.....	⊙ S7.638.000.000
Optional: Flat gasket....STAD1-7P2510	



1.5 mm Locking
Screw at Flange

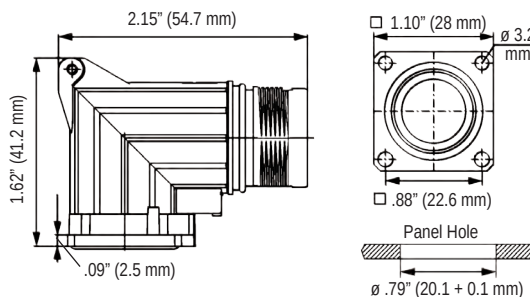


M23 Power Right Angle Panel Connector, Male Thread, Rotatable 300°

Type	Part Number
300° Rotatable, Flange 28 x 28 mm 4 x Holes Ø 3.2 mm.....	⊙ S7.638.100.000



1.5 mm Locking
Screw at Flange



M23 Power Accessories



Plastic Protective Cap for connectors
with Male thread.....S7.000.900.101
with Female threadS7.000.900.102



Brass Protective Cap for connectors
with Female thread⊗ S7.010.900.183



Brass Protective Cap for connectors
with Male threadS7.010.900.102



Adapter Flange
for Straight Connectors.....⊗ S7.010.900.128



Conduit Adapter
Nylon Conduit DN 12.....S7.010.900.205
Nylon Conduit DN 14.....S7.010.900.207
Nylon Conduit DN 17.....S7.010.900.209



Tool Adapter for tightening or loosening knurled nuts
for M23S7.010.900.192



Disassembly Tool
for crimp contacts.....S7.010.900.531



Brass Protective Cap with chain for
connectors with Female thread
Length 70 mm.....⊗ S7.010.9S0.783
Length 100 mm.....⊗ S7.010.9S1.083



Brass Protective Cap with chain for connectors
with Male thread
Length 70 mm.....S7.010.9S0.702
Length 100 mm.....S7.010.9S1.002



Crimp Tool for manual crimping of EMI sleeve
for Hybrid Ethernet inserts
.....S7.000.900.912



Crimp Tool for manual crimping of machined
crimp contacts
Works with contacts for power or signal
.....S7.000.900.901



Positioner for Crimp Tool
DMC M22520S7.000.900.DMC



Screw Tool, adjustable 0.5 - 1.7 Nm
.....S7.010.900.190



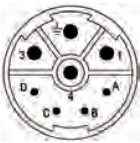
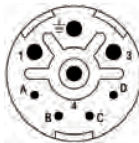
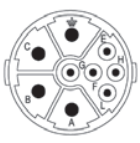
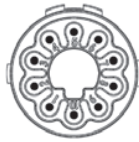
Locator for Crimp Tool DMC M22520
with positionerS7.000.9DM.C06
For Sealcon Contact:
S7.010.941.001, S7.010.942.001, S7.010.942.011

Locator for Crimp Tool DMC M22520
with positionerS7.000.9DM.C07
For Sealcon Contact:
S7.010.941.002, S7.010.942.002, S7.010.942.012

⊙ MATES WITH TWILOCK SYSTEM ⊗ DOES NOT MATE WITH TWILOCK SYSTEM

M23 POWER, M23 HYBRID CONNECTORS

INSERTS, CONTACTS

M23 Power Contact Arrangement, Mating View	Number of Poles	Required Contacts
 	6 - pole	Two-Piece Snap-In *INSERT/REMOVAL TOOL S7.010.900.531 REQUIRED 6 x Crimp Pins 2 mm.....S7.084.951.121* 6 x Crimp Sockets 2 mm.....S7.084.951.122* EuroClip 6 x Crimp Pins 2 mm.....S7.084.951.101 6 x Crimp Sockets 2 mm.....S7.084.951.102
 	8 - pole	Two-Piece Snap-In *INSERT/REMOVAL TOOL S7.010.900.531 REQUIRED 4 x Crimp Pins 1 mm, 4 x Crimp Pins 2 mm.....S7.084.943.121* 4 x Crimp Sockets 1 mm, 4 x Crimp Sockets 2 mm.....S7.084.943.122* EuroClip 4 x Crimp Pins 1 mm, 4 x Crimp Pins 2 mm.....S7.084.943.101 4 x Crimp Sockets 1 mm, 4 x Crimp Sockets 2 mm.....S7.084.943.102
 	9 - pole	5 x Crimp Pins 1 mm, 4 x Crimp Pins 2 mm.....S7.084.953.101 5 x Crimp Sockets 1 mm, 4 x Crimp Sockets 2 mm.....S7.084.953.102
 	9 - pole	5 x Crimp Pins 1 mm, 4 x Crimp Pins 2 mm.....S7.084.909.101 5 x Crimp Sockets 1 mm, 4 x Crimp Sockets 2 mm.....S7.084.909.102
 	10 - pole	10 x Crimp Pins 1 mm.....S7.084.910.101 10 x Crimp Sockets 1 mm.....S7.084.910.102
 	12 - pole	HYBRID Insert - Power, Signal, and Ethernet 4 each Crimp Pins 1 mm, 2 mm, 0.6 mm.....S7.084.944.101* 4 each Crimp Sockets 1 mm, 2 mm, 0.6 mm.....S7.084.944.102* *CONTACT REMOVAL TOOL S7.010.900.531 REQUIRED FOR 2MM CONTACTS

M23 Power Contacts	Type	Crimp Range	Part Number
	Crimp Pin 0.6 mm, machined.....	0.08 – 0.34 mm ² (AWG28 – AWG 22)	S7.010.980.641
	Crimp Socket 0.6mm, machined.....	0.08 – 0.34 mm ² (AWG28 – AWG 22)	S7.010.980.602
	Crimp Pin 1 mm, machined.....	0.14 – 1 mm ² (AWG 26 – 17)	S7.010.941.001
	Crimp Pin 1 mm, machined.....	0.75 – 1.5 mm ² (AWG 18 – 16).....	S7.010.941.021
	Crimp Socket 1 mm, machined.....	0.14 – 1 mm ² (AWG 26 – 17)	S7.010.941.002
	Crimp Socket 1 mm, machined.....	0.75 – 1.5 mm ² (AWG 18 – 16).....	S7.010.941.022
	Crimp Pin 2 mm, machined.....	0.75 – 2.5 mm ² (AWG 18 – 14).....	S7.010.942.001
	Crimp Pin 2 mm, machined.....	2.5 – 4 mm ² (AWG 14 – 12)	S7.010.942.011
	Crimp Socket 2 mm, machined.....	0.75 – 2.5 mm ² (AWG 18 – 14).....	S7.010.942.002
	Crimp Socket 2 mm, machined.....	2.5 – 4 mm ² (AWG 14 – 12)	S7.010.942.012



M27 SIGNAL CONNECTORS

RELIABLE DATA TRANSMISSION

The M27 Signal connector is available in 26 and 28 pole inserts with signal transmission up to 150 Volts and 8 Amps. This connector allows additional pinout options larger than M23 with the same IP67 / IP 69K rating. Operating temperature of up to 257 °F (125 °C). EMI ready options! Available in male and female thread, straight and panel mount housings connectors.



Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated Other surface upon request
Inserts	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass Alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	50 (Sealcon to Sealcon connector)
Seals / O-Rings	Buna-N (Black), Optional FKM (Green)
Temperature range	-40 °F – 257 °F (-40 °C – 125 °C)
Type of contacts	Crimp, solder, dip-solder (PCB)
Protection	IP 67 / IP 69K per EN 60529 (connected), NEMA 4x
Cable diameter range	.28 – .67" (7 - 17 mm)

Components Needed For A Complete M27 Signal Connector:

- **HOUSING** (page 59)
- **INSERT** (page 60)
- **CONTACTS** (if crimp contact insert is selected) (page 60)

Electrical Data

Number of positions	26	28
Number of contacts	26	28
Contact-Ø [mm]	1	1
Nominal current [A]	8	8
Nominal voltage [V~]	150	150
Test voltage (Breakdown voltage) [V~]	1500	1500
Insulation resistance [MΩ]	> 10 ¹²	> 10 ¹²
Max. contact resistance [mΩ]	3	3
Degree of Protection	3	3



SEE TECHNICAL INFORMATION ON PAGE 80

*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M27 SIGNAL CONNECTORS

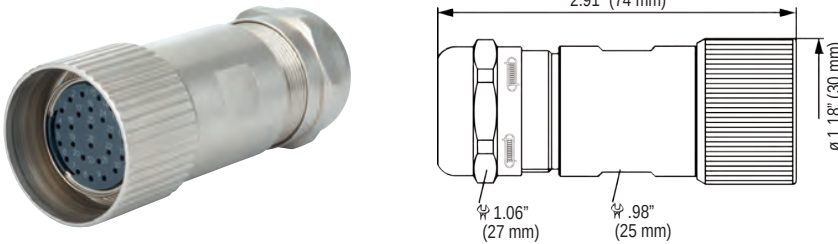
HOUSINGS, ACCESSORIES

M27 Signal Straight Connector, EMI, Female Thread

Cable-Ø

Part Number

7 - 12 mm (.28 - .47")	S7.110.500.000
11 - 17 mm (.43 - .67")	S7.110.600.000

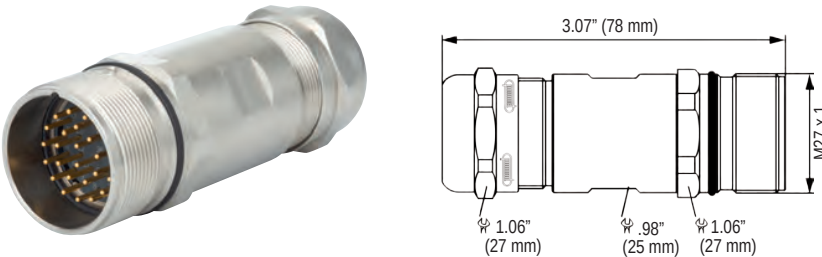


M27 Signal Straight Connector, EMI, Male Thread

Cable-Ø

Part Number

7 - 12 mm (.28 - .47")	S7.210.500.000
11 - 17 mm (.43 - .67")	S7.210.600.000

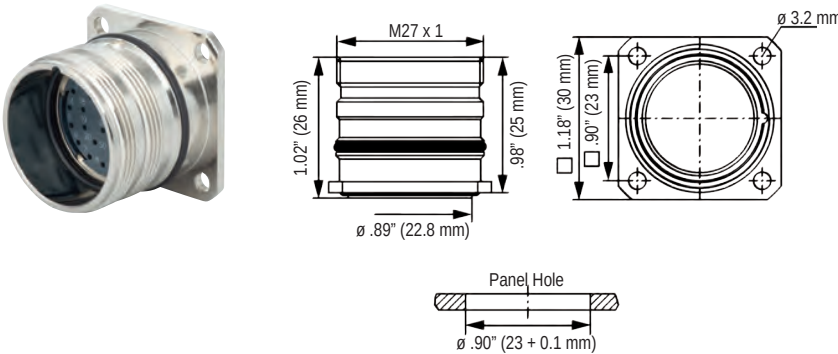


M27 Signal Panel Connector, Male Thread, Flange

Type

Part Number

Front Mounting, Flange 30 x 30 mm	
4 x Holes 3.2 mm	S7.410.700.000



M27 Signal Accessories



Plastic Protective Cap for connectors
with male thread.....S7.000.980.167
with female thread.....S7.000.980.168



Brass Protective Cap with chain for connectors
with female thread
Length 70 mm.....S7.010.9S0.707



Brass Protective Cap for connectors with
female thread.....S7.010.900.169



Brass Protective Cap with chain for connectors
with male thread
Length 70 mm.....S7.010.9S0.708



Brass Protective Cap for connectors with
male thread.....S7.010.900.170



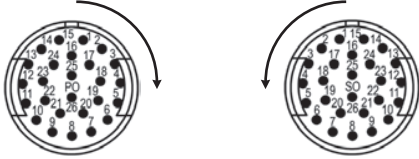
Crimp Tool for manual crimping of machined crimp
contacts works with contacts for power or signal
.....S7.000.900.901 / 904

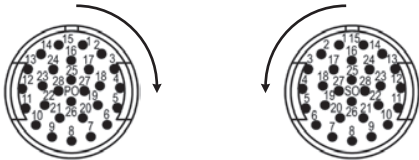


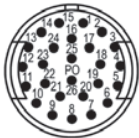
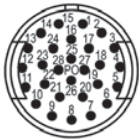
Assembly Tool.....S7.010.900.110

M27 SIGNAL CONNECTORS

INSERTS, CONTACTS

Inserts 26-pole	Type	Part Number	Part Number
 Insert Pin Mating View (clockwise orientation) Insert Socket Mating View (counterclockwise orientation)	Pinout clockwise	Pins	Sockets
	Insert with solder contacts.....	S7.001.926.103.....	S7.001.926.104
	Insert without contacts.....	S7.003.926.101.....	S7.003.926.102
	Insert with dip solder contacts Length 10 mm.....	S7.001.926.127	
The correct dimension of a connector with dip solder contacts depends on the particular type of housing.			

Inserts 28-pole	Type	Part Number	Part Number
 Insert Pin Mating View (clockwise orientation) Insert Socket Mating View (counterclockwise orientation)	Pinout clockwise	Pins	Sockets
	Insert with solder contacts.....	S7.001.928.103	S7.001.928.104

M27 Signal Contact Arrangement	Number of Poles	Required Contacts
	26.....	26 x 1 mm
	28.....	28 x 1 mm

M27 Signal Contacts	Type	Crimp Range	Part Number
	Crimp Pin 1 mm, machined	0.14 – 0.56 mm ² (AWG26 – AWG 17)	S7.010.971.001
	Crimp Socket 1 mm, machined	0.14 – 0.56 mm ² (AWG26 – AWG 17)	S7.010.971.002

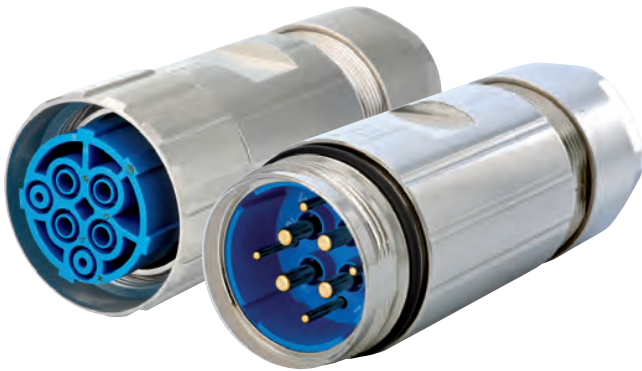
M27 Signal Connectors



M40 POWER CONNECTORS

HIGH POWER AND CURRENT

The M40 Power connector is built for high power transmission with capabilities up to 600 Volts and 55 Amps. By having specially designed housing, safe electromagnetic compatibility protection is achieved. The durable nickel plated brass housing is perfect for rough industrial environments and for various uses, such as heavy drive applications. EMI ready options!



STANDARD DELIVERY OF M40 (SIZE 1.5)
POWER CONNECTOR INCLUDES CONTACT INSERT.

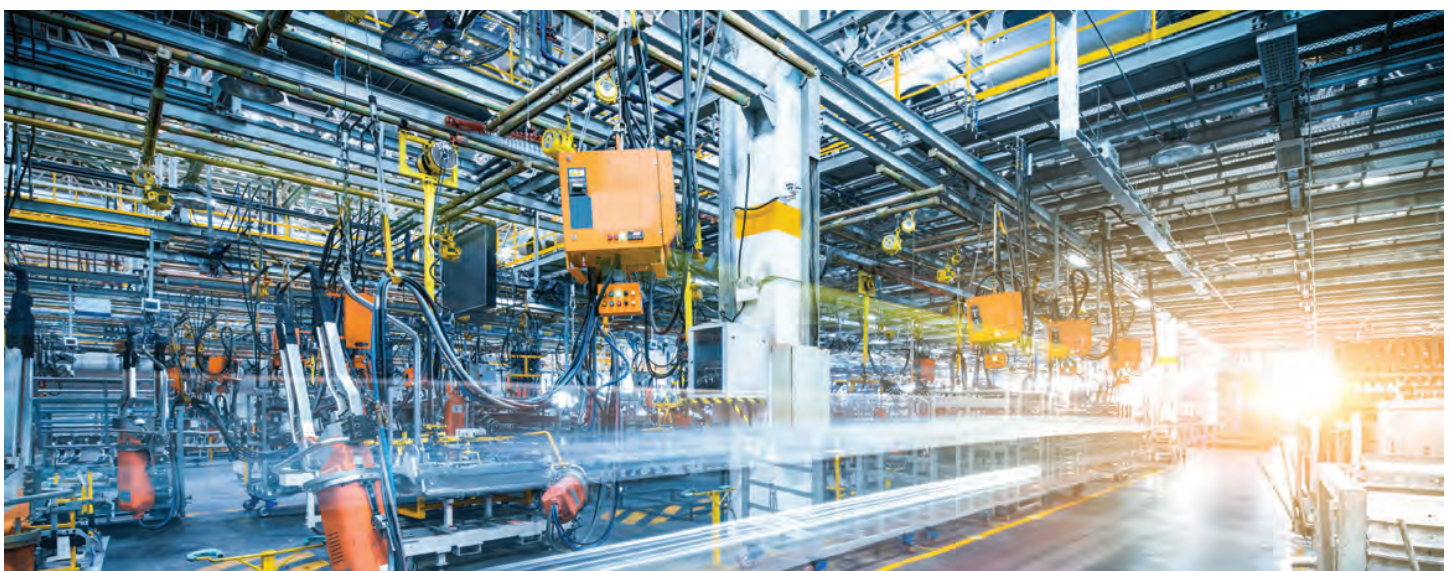
Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Cast
Housing surface	Nickel plated Other Surface upon request
Inserts (for contacts)	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	> 500 (Sealcon to Sealcon connector)
Seals / O-Rings	Buna-N (Black), Optional FKM (Green)
Temperature range	-40 °F - 257 °F (-40 °C - 125 °C)
Type of contacts	Crimp
Protection	IP 67 / IP 69K per EN 60 529 (connected), NEMA 4x
Cable diameter range	.51 -1.10" (13 - 28 mm)

Components Needed For A Complete M40 Power Connector:

- HOUSING (pages 63 - 66)
- INSERT Included
- CONTACTS (page 67)

Electrical Data

Number of positions	2 + 3 + PE		4 + 3 + PE	
Number of contacts	2	4	4	4
Contact-Ø [mm]	2	3.6	2	3.6
Nominal current [A]	28	55	28	55
Nominal voltage [V~] degree of protection 3	300	600	300	600
Test voltage (Breakdown voltage) [V~]	2500	4000	2500	4000
Insulation resistance [MΩ]	> 10 ¹³		> 10 ¹³	
Max. contact resistance [mΩ]	3	1	3	1



SEE TECHNICAL INFORMATION ON PAGE 80

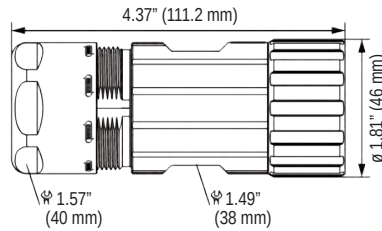
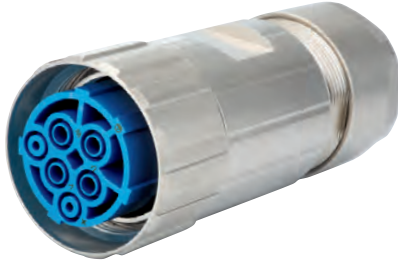
*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M40 POWER CONNECTORS

HOUSINGS

M40 Power Straight Connector, EMI, Female Thread

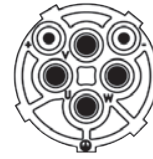
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



Cable-Ø

Part Number

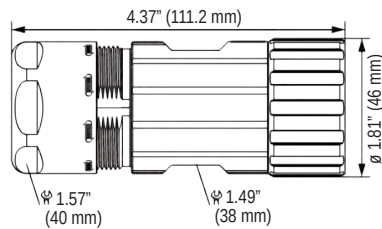
13 - 18 mm (.51 - .71")	S7.710.623.000
17 - 24 mm (.67 - .97")	S7.710.723.000
21 - 28 mm (.83 - 1.10")	S7.710.823.000



6 Positions
2 + 3 + PE, Insert for Sockets

M40 Power Straight Connector, EMI, Female Thread

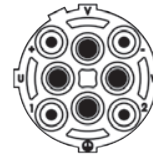
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



Cable-Ø

Part Number

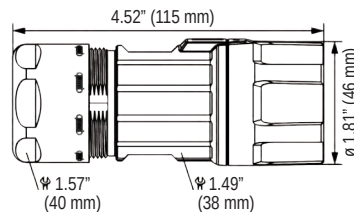
13 - 18 mm (.51 - .71")	S7.710.643.000
17 - 24 mm (.67 - .97")	S7.710.743.000
21 - 28 mm (.83 - 1.10")	S7.710.843.000



8 Positions
4 + 3 + PE, Insert for Sockets

M40 Power Straight Connector, EMI, Female Thread TWILOCK-S* - Quick Connect

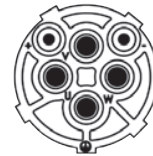
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



Cable-Ø

Part Number

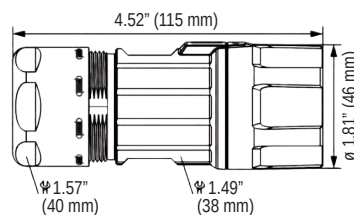
*Intermateable with SpeedTEC® (Twilock-S)	
13 - 18 mm (.51 - .71")	S7.716.623.00S*
17 - 24 mm (.67 - .97")	S7.716.723.00S*
21 - 28 mm (.83 - 1.10")	S7.716.823.00S*



6 Positions
2 + 3 + PE, Insert for Sockets

M40 Power Straight Connector, EMI, Female Thread TWILOCK-S* - Quick Connect

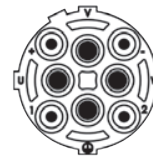
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



Cable-Ø

Part Number

*Intermateable with SpeedTEC® (Twilock-S)	
13 - 18 mm (.51 - .71")	S7.716.643.00S*
17 - 24 mm (.67 - .97")	S7.716.743.00S*
21 - 28 mm (.83 - 1.10")	S7.716.843.00S*



8 Positions
4 + 3 + PE, Insert for Sockets

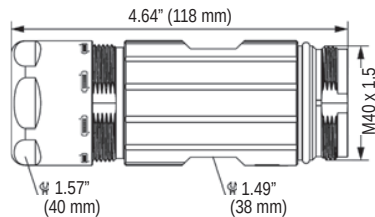
*UNDER DEVELOPMENT

M40 POWER CONNECTORS

HOUSINGS

M40 Power Straight Connector, EMI, Male Thread Standard Threaded and TWILOCK-S*- Quick Connect

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



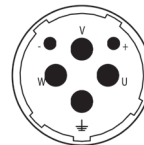
Cable-Ø

Part Number

13 - 18 mm (.51 - .71")	S7.720.623.000
17 - 24 mm (.67 - .97")	S7.720.723.000
21 - 28 mm (.83 - 1.10")	S7.720.823.000

*Intermateable with SpeedTEC® (Twilock-S)

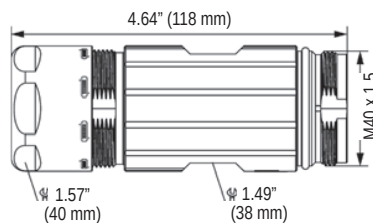
13 - 18 mm (.51 - .71")	S7.720.623.00S*
17 - 24 mm (.67 - .97")	S7.720.723.00S*
21 - 28 mm (.83 - 1.10")	S7.720.823.00S*



6 Positions
2 + 3 + PE, Insert for Pins

M40 Power Straight Connector, EMI, Male Thread Standard Threaded and TWILOCK-S*- Quick Connect

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



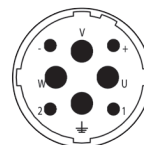
Cable-Ø

Part Number

13 - 18 mm (.51 - .71")	S7.720.643.000
17 - 24 mm (.67 - .97")	S7.720.743.000
21 - 28 mm (.83 - 1.10")	S7.720.843.000

*Intermateable with SpeedTEC® (Twilock-S)

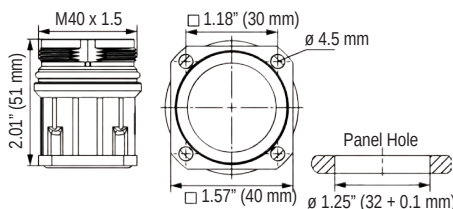
13 - 18 mm (.51 - .71")	S7.720.643.00S*
17 - 24 mm (.67 - .97")	S7.720.743.00S*
21 - 28 mm (.83 - 1.10")	S7.720.843.00S*



8 Positions
4 + 3 + PE, Insert for Pins

M40 Power Panel Connector, Male Thread, Flange Standard Threaded and TWILOCK-S*- Quick Connect

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



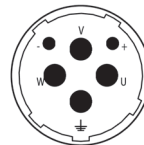
Type

Part Number

Front Mounting, Flange 40 x 40 mm 4 x Holes Ø 4.5 mm	S7.740.023.000
---	----------------

*Intermateable with SpeedTEC® (Twilock-S)

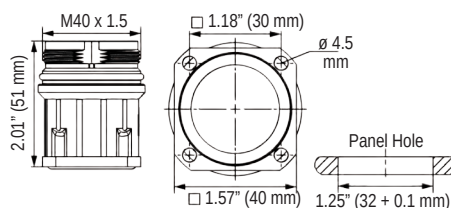
4 x Holes Ø 4.5 mm	S7.740.023.00S*
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6 Positions
2 + 3 + PE, Insert for Pins

M40 Power Panel Connector, Male Thread, Flange Standard Threaded and TWILOCK-S*- Quick Connect

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



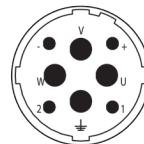
Type

Part Number

Front Mounting, Flange 40 x 40 mm 4 x Holes Ø 4.5 mm	S7.740.043.000
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*Intermateable with SpeedTEC® (Twilock-S)

4 x Holes Ø 4.5 mm	S7.740.043.00S*
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8 Positions
4 + 3 + PE, Insert for Pins

*UNDER DEVELOPMENT

M40 POWER CONNECTORS

HOUSINGS

M40 Power Panel Connector with Knurled Nut, Female Thread, Flange

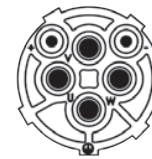
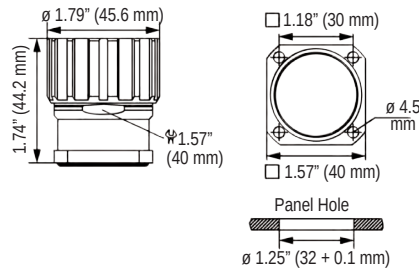
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY

Type

Part Number

Front Mounting, Flange 40 x 40 mm

4 x Holes Ø 4.5 mm..... S7.744.023.000



6 Positions
2 + 3 + PE, Insert for Sockets

M40 Power Panel Connector With Knurled Nut, Female Thread, Flange

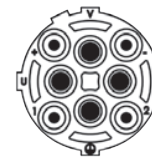
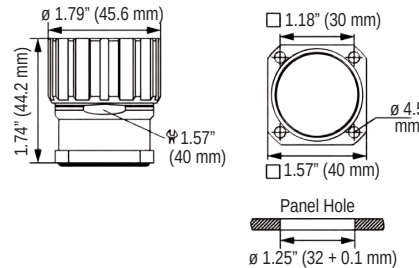
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY

Type

Part Number

Front Mounting, Flange 40 x 40 mm

4 x Holes Ø 4.5 mm..... S7.744.043.000



8 Positions
4 + 3 + PE, Insert for Sockets

M40 Power Right Angle Panel Connector, Rotatable 327° TWILOCK-S*- Quick Connect, Male Thread

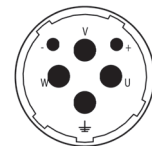
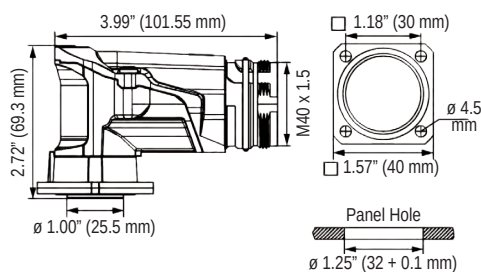
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY

Type

Part Number

327° Rotatable, Flange 40 x 40 mm

*Intermateable with SpeedTEC®
4 x Holes Ø 4.5 mm..... S7.749.023.00S*



6 Positions
2 + 3 + PE, Insert for Pins

M40 Power Right Angle Panel Panel Connector, Rotatable 327° TWILOCK-S*- Quick Connect, Male Thread

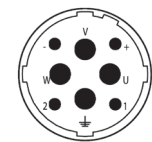
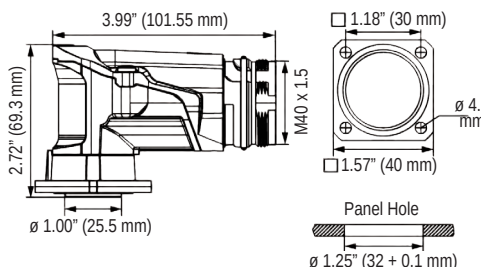
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY

Type

Part Number

327° Rotatable, Flange 40 x 40 mm

*Intermateable with SpeedTEC®
4 x Holes Ø 4.5 mm..... S7.749.043.00S*



8 Positions
4 + 3 + PE, Insert for Pins

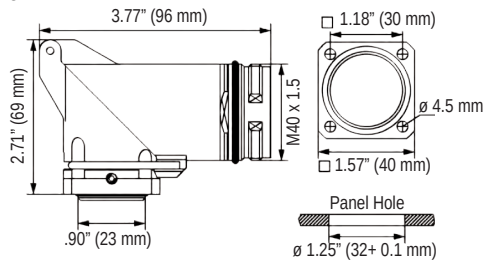
* UNDER DEVELOPMENT

M40 POWER CONNECTORS

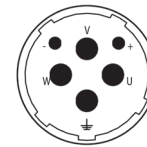
HOUSINGS, ACCESSORIES

M40 Power Right Angle Panel Connector, Male Thread, Rotatable 330°

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



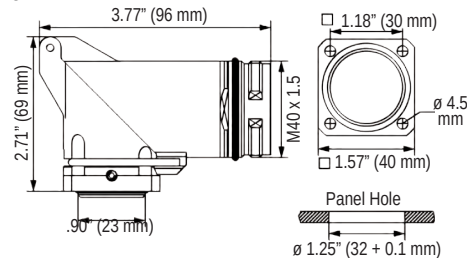
Type	Part Number
330° Rotatable, Flange 40 x 40 mm 4 x Holes Ø 4.5 mm.....	S7.743.023.000



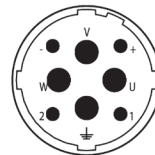
6 Positions
2 + 3 + PE, Insert for Pins

M40 Power Right Angle Panel Connector, Male Thread, Rotatable 330°

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



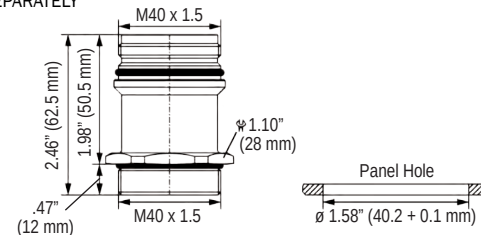
Type	Part Number
330° Rotatable, Flange 40 x 40 mm 4 x Holes Ø 4.5 mm.....	S7.743.043.000



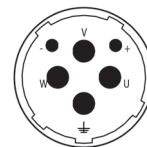
8 Positions
4 + 3 + PE, Insert for Pins

M40 Power Straight Connector, Male Thread, Single Hole

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



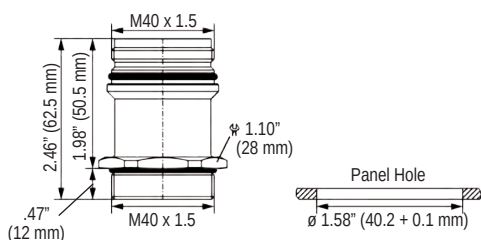
Type	Part Number
Front Mounting, Single Hole Thread M40 x 1.5.....	S7.742.023.000



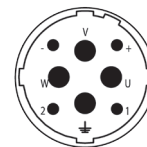
6 Positions
2 + 3 + PE, Insert for Pins

M40 Power Straight Connector, Male Thread, Single Hole

INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



Type	Part Number
Front Mounting, Single Hole Thread M40 x 1.5.....	S7.742.043.000



8 Positions
4 + 3 + PE, Insert for Pins

M40 Power Accessories



Plastic Protective Cap for connectors
with Female thread..... S7.000.900.152



Plastic Protective Cap for connectors
with Male thread..... S7.000.900.151



Brass Protective Cap for connectors
with Female thread S7.015.900.103



Brass Protective Cap for connectors
with Male thread S7.015.900.102



Adapter Flange
for Straight Connectors..... S7.010.900.129



Crimp Tool for manual crimping of machined
crimp contacts up to 10 mm² (AWG 8)
for power connectors S7.000.900.902



Crimp Tool for manual crimping of machined
crimp contacts 16 mm² (AWG 6) S7.000.900.903



Brass Protective Cap with rope for connectors
with Female thread S7.015.9S1.003



Brass Protective Cap with rope for connectors
with Male thread S7.015.9S1.002



Conduit Adapter
Nylon Conduit DN 23..... S7.010.900.215
Nylon Conduit DN 29..... S7.010.900.217

M40 POWER CONNECTORS

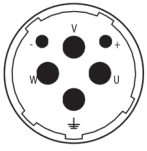
INSERTS, CONTACTS

M40 Power Contact Arrangement, Mating View

Number of Poles

Required Contacts

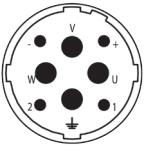
INSERTS INCLUDED, CONTACTS ORDERED SEPARATELY



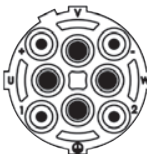
Insert for Pins 2 + 3 + PE.....2 x Crimp Pins 2 mm
.....4 x Crimp Pins 3.6 mm



Insert for Sockets 2 + 3 + PE.....2 x Crimp Sockets 2 mm
.....4 x Crimp Sockets 3.6 mm



Insert for Pins 4 + 3 + PE.....4 x Crimp Pins 2 mm
.....4 x Crimp Pins 3.6 mm



Insert for Sockets 4 + 3 + PE.....4 x Crimp Sockets 2 mm
.....4 x Crimp Sockets 3.6 mm

*UNDER DEVELOPMENT

M40 Power Contacts	Type	Crimp Range	Part Number
	Crimp Pin 2 mm, machined.....	0.25 – 1 mm ² (AWG 24 – 17).....	S7.015.952.003*
	Crimp Pin 2 mm, machined.....	0.75 – 4 mm ² (AWG 18 – 12)	S7.015.952.001
	Crimp Pin 3.6 mm, machined.....	1.5 – 4 mm ² (AWG 16 – 12).....	S7.015.953.601
	Crimp Socket 3.6 mm, machined ...	1.5 – 4 mm ² (AWG 16 – 12).....	S7.015.953.602
	Crimp Pin 3.6 mm, machined.....	6 mm ² (AWG 10).....	S7.015.953.611
	Crimp Socket 3.6 mm, machined	6 mm ² (AWG 10).....	S7.015.953.612
	Crimp Pin 3.6 mm, machined.....	10 mm ² (AWG 8).....	S7.015.953.621
	Crimp Pin 3.6 mm, machined.....	10 mm ² (AWG 8).....	S7.015.953.623
	Crimp Socket 3.6 mm, machined	10 mm ² (AWG 8).....	S7.015.953.622
	Crimp Socket 3.6 mm, machined	10 mm ² (AWG 8).....	S7.015.953.624
	Crimp Pin 3.6 mm, machined.....	16 mm ² (AWG 6).....	S7.015.953.631
	Crimp Socket 3.6 mm, machined.....	16 mm ² (AWG 6).....	S7.015.953.632

M16/M23 STAINLESS STEEL CONNECTORS

FOR EXTREMELY ROUGH OR HYGIENIC USES

Mechanical Data	Materials and Technical Data
Housing	Stainless Steel 316L
Housing surface	Clear
Inserts	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass Alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Minimum mating cycles	> 1000 (Sealcon to Sealcon connector)
Seals / O-Rings	FKM (Green), Optional EPDM (Green)
Temperature range	-40 °F - 257 °F (-40 °C - 125 °C)
Type of contacts signal M23	Crimp, solder, dip-solder (PCB)
Type of contacts power M23	Crimp
Type of contacts M16	Crimp, dip-solder (PCB)
Protection	IP 67 / IP 69K per EN 60529 (connected), NEMA 4x

Special applications require special solutions. When extremely rough or hazardous environments are a concern, 316L Stainless Steel options are available. Offered in the same pin-out configurations as the standard connectors, stainless steel housings will exceed your demands. Available in M16, and M23 sizes. EMI ready options! Other sizes are available by special order.



Additional Information			
Electrical data see standard product		Inserts and contacts see standard product	
M16 Connectors	page 19	M16 Connectors	pages 24 - 26
M23 Signal Connectors	page 37	M23 Signal Connectors	pages 44 - 48
M23 Power Connectors	page 50	M23 Power Connectors	page 56



*STAINLESS STEEL HOUSINGS DO NOT INCLUDE INSERTS AND CONTACTS. REFER TO APPLICABLE CONNECTOR SIZE AND TYPE SECTIONS FOR CONFIGURATION OPTIONS.



WE DO NOT RECOMMEND DISCONNECTING OR CONNECTING SEALCON CONNECTORS UNDER LOAD.

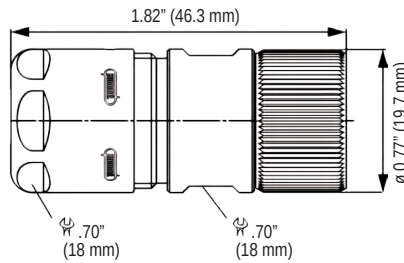
*ASSEMBLY INSTRUCTIONS CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M16 / M23 Stainless Steel

M16/M23 STAINLESS STEEL CONNECTORS

HOUSINGS

M16 Straight Connector, EMI, Female Thread

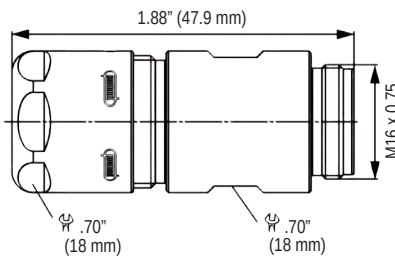


Cable-Ø

Part Number

3 - 6 mm (.12" - .24").....	S7.814.300.000
5 - 9 mm (.20" - .35").....	S7.814.400.000
8 - 11 mm (.31" - .43").....	S7.814.500.000

M16 Straight Connector, EMI, Male Thread

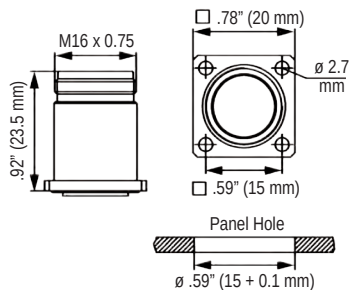


Cable-Ø

Part Number

3 - 6 mm (.12" - .24").....	S7.824.300.000
5 - 9 mm (.20" - .35").....	S7.824.400.000
8 - 11 mm (.31" - .43").....	S7.824.500.000

M16 Panel Connector, Male Thread, Flange



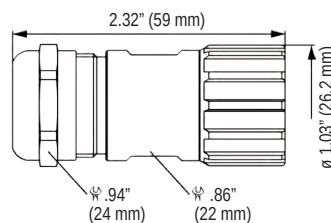
Type

Part Number

Front Mounting, Flange 20 x 20 mm

4 x Holes Ø 2.7 mm.....	S7.840.400.000
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M23 Signal Straight Connector, EMI, Female Thread



Cable-Ø

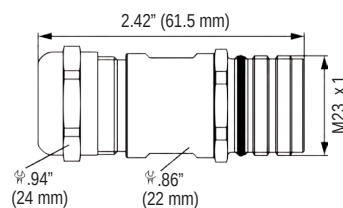
Part Number

Part Number EMI

3 - 7 mm (.12 - .28").....	S7.140.300.000.....	S7.141.300.000
5 - 10 mm (.20 - .39").....	S7.140.400.000.....	S7.141.400.000
7 - 12 mm (.27 - .47").....	S7.140.500.000.....	S7.141.500.000
10 - 14 mm (.39 - .55")...	S7.140.600.000.....	S7.141.600.000

ASSEMBLY TOOL S7.010.900.127 IS REQUIRED

M23 Signal Straight Connector, EMI, Male Thread



Cable-Ø

Part Number

Part Number EMI

3 - 7 mm (.12 - .28")	S7.240.300.000.....	S7.241.300.000
5 - 10 mm (.20 - .39").....	S7.240.400.000.....	S7.241.400.000
7 - 12 mm (.27 - .47").....	S7.240.500.000.....	S7.241.500.000
10 - 14 mm (.39 - .55")...	S7.240.600.000.....	S7.241.600.000



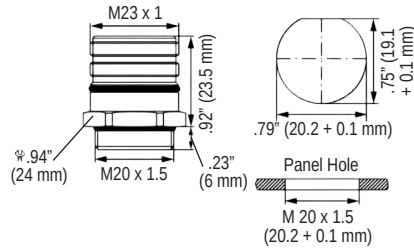
STAINLESS STEEL HOUSINGS DO NOT INCLUDE INSERTS AND CONTACTS. REFER TO APPLICABLE CONNECTOR SIZE AND TYPE SECTIONS FOR CONFIGURATION OPTIONS.

M16/M23 STAINLESS STEEL CONNECTORS

HOUSINGS

M23 Signal Panel Connector, Single Hole, Male Thread

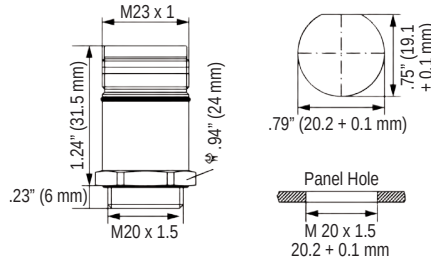
MALE INSERTS ONLY



Type	Part Number
Front Mounting for Male Inserts, Single Hole Thread M20 x 1.5.....	S7.420.400.000

M23 Signal Panel Connector, Single Hole, Male Thread

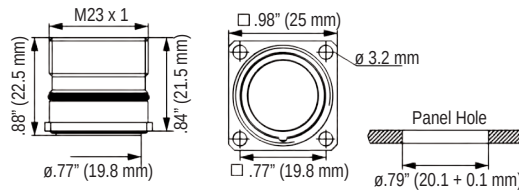
FEMALE INSERTS ONLY



Type	Part Number
Front Mounting for Female Inserts, Single Hole Thread M20 x 1.5.....	S7.421.400.000

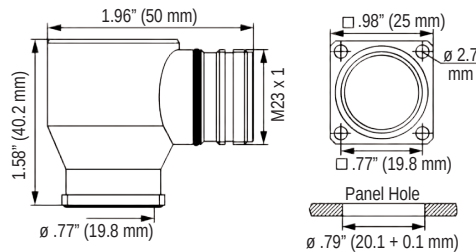
M23 Signal Panel Connector, Male Thread, Flange

FEMALE INSERTS ONLY



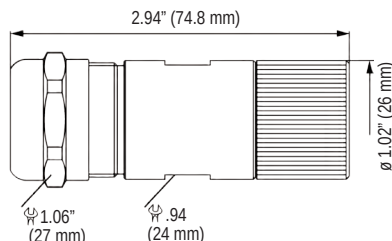
Type	Part Number
Rear Mounting, Flange 25 x 25 4 x Holes Ø 3.2 mm.....	S7.410.400.000

M23 Signal Right Angle Panel Connector, Male Thread, Flange



Type	Part Number
Front Mounting, Flange 25 x 25 4 x Holes Ø 2.7 mm.....	S7.430.400.000

M23 Power Straight Connector, EMI, Female Thread



Type	Part Number
7 - 12 mm (.27 - .47").....	S7.554.500.000
11 - 17 mm (.43 - .67").....	S7.554.600.000



STAINLESS STEEL HOUSINGS DO NOT INCLUDE INSERTS AND CONTACTS. REFER TO APPLICABLE CONNECTOR SIZE AND TYPE SECTIONS FOR CONFIGURATION OPTIONS.

M16/M23 STAINLESS STEEL CONNECTORS

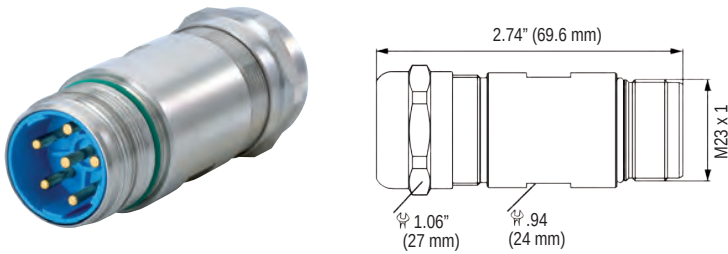
HOUSINGS

M23 Power Straight Connector, EMI, Male Thread

Type

Part Number

7 - 12 mm (.27 - .47")	S7.564.500.000
11 - 17 mm (.43 - .67")	S7.564.600.000

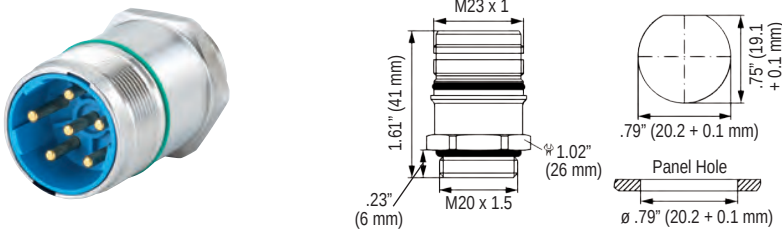


M23 Power Panel Connector, Single Hole, Male Thread

Type

Part Number

Front Mounting, Single Hole	
Thread M20 x 1.5	S7.621.400.000

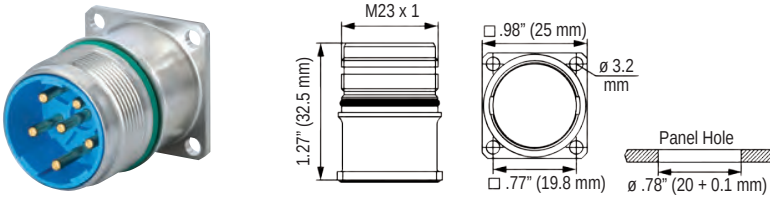


M23 Power Panel Connector, Male Thread, Flange

Type

Part Number

Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm	S7.601.400.000

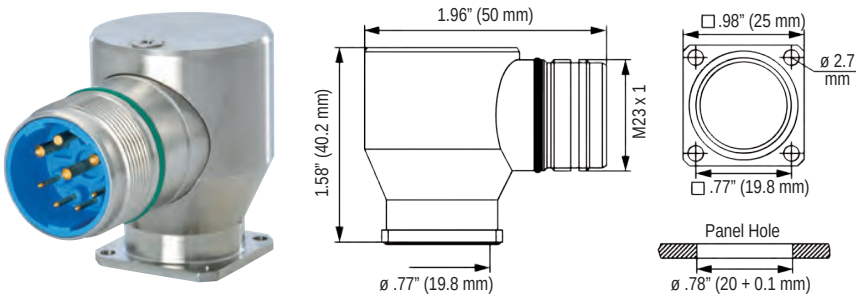


M23 Power Right Angle Panel Connector, Male Thread, Flange

Type

Part Number

Front Mounting, Flange 25 x 25 mm	
4 x Holes Ø 2.7 mm	S7.630.400.000



STAINLESS STEEL HOUSINGS DO NOT INCLUDE INSERTS AND CONTACTS. REFER TO APPLICABLE CONNECTOR SIZE AND TYPE SECTIONS FOR CONFIGURATION OPTIONS.

M16/M23 STAINLESS STEEL CONNECTORS

ACCESSORIES

M16/M23 Stainless Steel Accessories



Plastic Protective Cap for connectors
M16 with Male thread S7.000.980.161

Plastic Protective Cap for connectors
M16 with Female thread..... S7.000.980.162

Plastic Protective Cap for connectors
M23 with Male thread..... S7.000.900.101

Plastic Protective Cap for connectors
M23 with Female thread S7.000.900.102



Stainless Steel Protective Cap for connectors
M16 with Female thread S7.010.904.163

Stainless Steel Protective Cap for connectors
M23 Signal with Female thread S7.010.904.103

Stainless Steel Protective Cap for connectors
M23 Power with Female thread S7.010.904.183



Stainless Steel Protective Cap for connectors
M16 with Male threadS7.010.904.162

Stainless Steel Protective Cap for connectors
M23 with Male thread S7.010.904.102



Crimp Tool for manual crimping of machined crimp
contacts for signal connectors
M16 and M23..... S7.000.900.904



Assembly Tool..... S7.010.900.127



Stainless Steel Protective Cap with rope for
M16 connector with Female thread
70 mm S7.010.9S4.163

Stainless Steel Protective Cap with rope for
M23 Signal connectors with Female thread
100 mm S7.010.9S4.103

Stainless Steel Protective Cap with rope for
M23 Power connectors with Female thread
100 mm S7.010.9S4.183

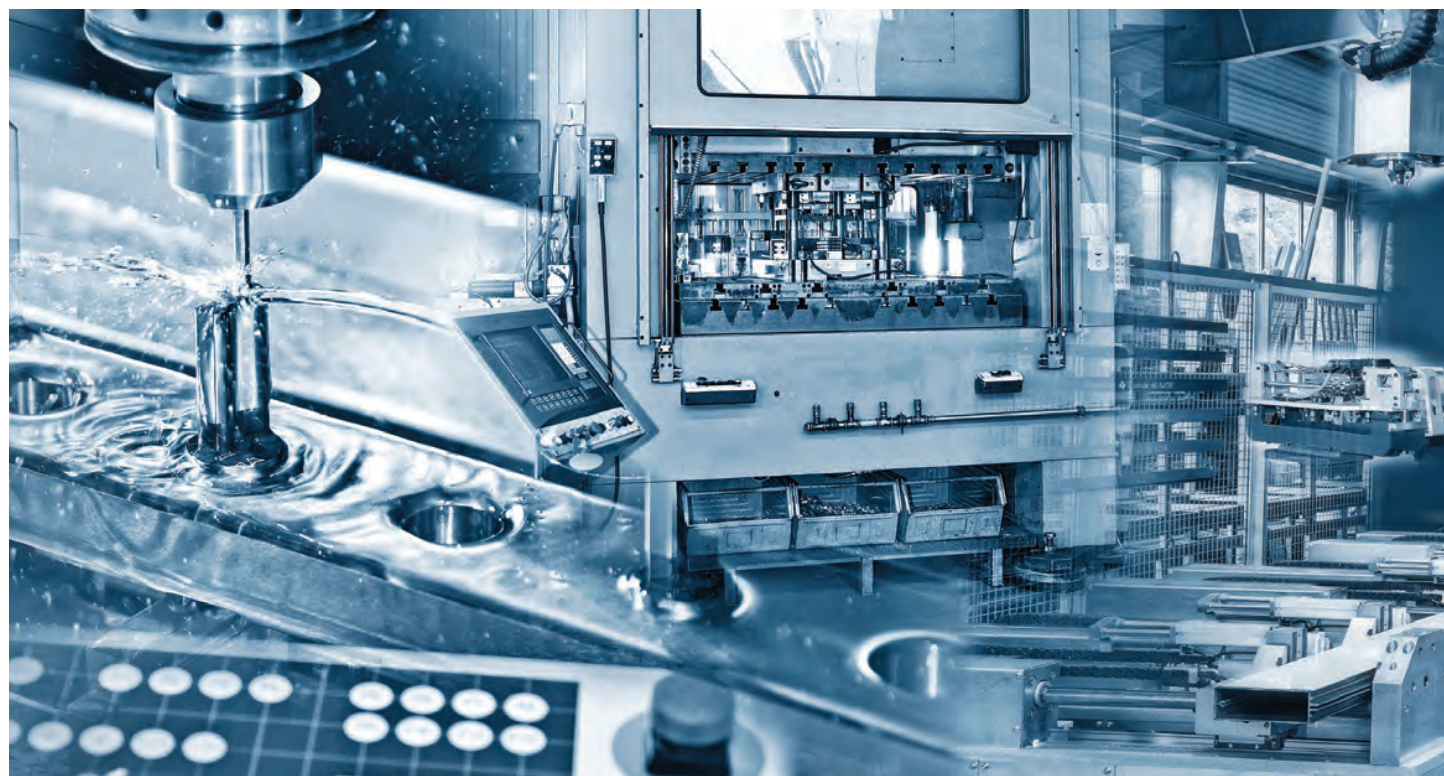


Stainless Steel Protective Cap with rope for
M16 connectors with Male thread
70mm..... S7.010.9S4.162

Stainless Steel Protective Cap with rope for
M23 connectors with Male thread
100mm S7.010.9S4.102



Crimp Tool for manual crimping of machined crimp
contacts works with contacts for power or signal
..... S7.000.900.901 / 904

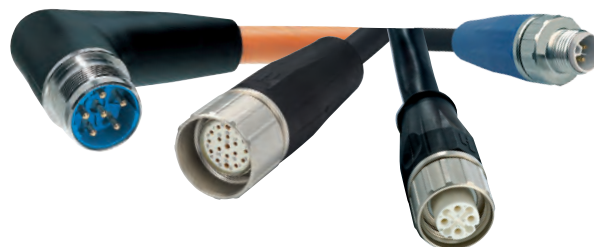


M12/M16/M23 MOLDED CORDSETS

M12, M16, M23 CUSTOM OVERMOLDED SOLUTIONS

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy Die Casting
Molded strain relief	Polyurethane PUR
Housing surface	Nickel plated brass, black strain relief
Inserts	Thermoplastic Polyamide PA 6 (Nylon 6/6), PBT Fire protection class V-0
Contacts	Brass alloy
Contact surface at point of contact	Nickel and gold plated (0.25 µm)
Seals / O-Rings	Buna-N (Black), Optional FKM (Green)
Temperature range	-40°F - 257°F (-40°C - 125°C)
Type of contacts	Crimp
Protection	IP 67 / IP 69K per EN 60529 (connected), NEMA 4x
Cable stlye	Cable specifications available upon request
Labeling	HUMMEL logo as standard, other options available upon request

All cable and coupling connectors in the standard field attachable series are also available as an overmolded option. This includes M12, M16, M23 Signal and Power connectors. Sealcon, along with its value-added partners, has the capability of building custom configurations to your exact field attachable specifications. Whether you are looking for a certain cable, connector material, or color, we can source and provide you with a complete solution to save you time and overhead.



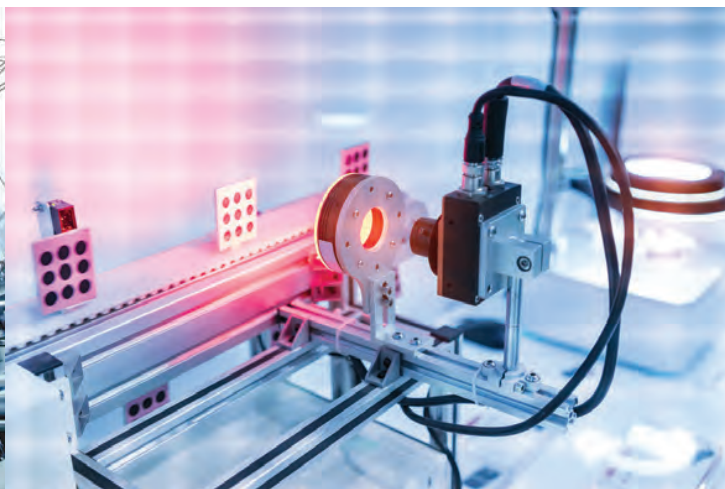
Additional Information

Electrical data see standard product

M12 Power Connectors	page 13
M16 Connectors	page 19
M23 Signal Connectors	page 37
M23 Power Connectors	page 50

Inserts and contacts see standard product

M12 Power Connectors	page 17
M16 Connectors	pages 24 - 26
M23 Signal Connectors	pages 44 - 48
M23 Power Connectors	page 56



*CUSTOM SOLUTIONS MAY REQUIRE LONGER LEAD TIMES AND MINIMUM QUANTITIES.

*MOLDED CONNECTOR CORDSETS ARE ALSO AVAILABLE AS STAINLESS STEEL (INOX) VERSIONS.

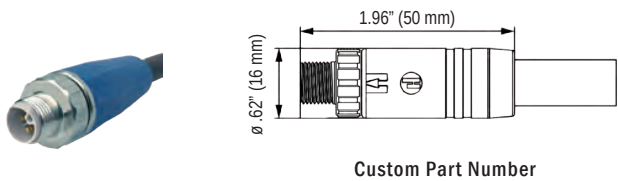


WE DO NOT RECOMMEND DISCONNECTING OR CONNECTING SEALCON CONNECTORS UNDER LOAD.

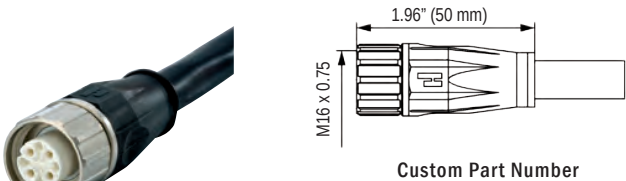
M12/M16 MOLDED CORDSETS

CUSTOM M12 POWER & M16 OVERMOLDED SOLUTIONS

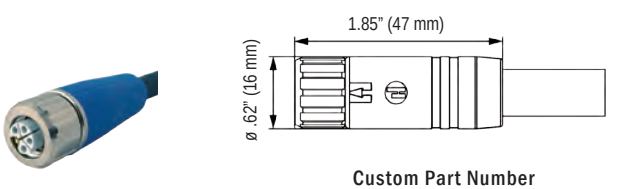
M12 Power Straight Molded Cordset, Male Thread



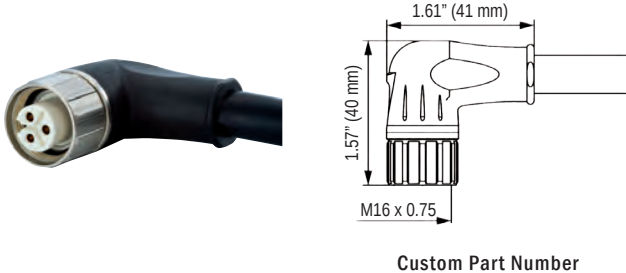
M16 Straight Molded Cordset, Female Thread



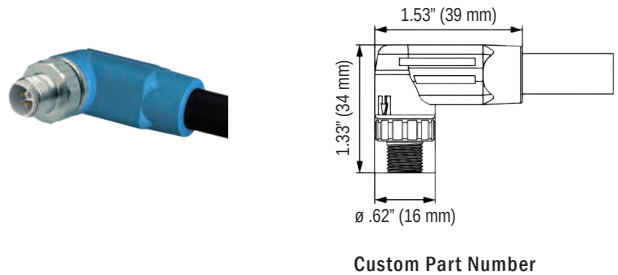
M12 Power Straight Molded Cordset, Female Thread



M16 Right Angle Molded Cordset, Female Thread

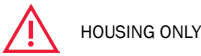


M12 Power Right Angle Molded Cordset, Male Thread

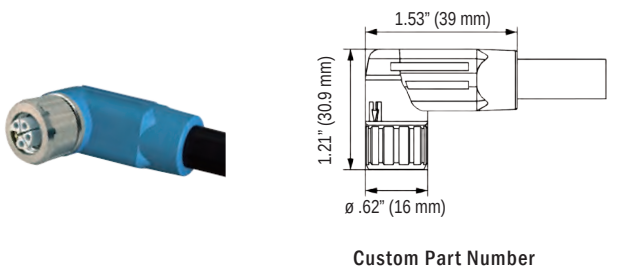


M16 Insert Options

- INSERTS (pages 24 - 26)



M12 Power Right Angle Molded Cordset, Female Thread



M12 Insert Options

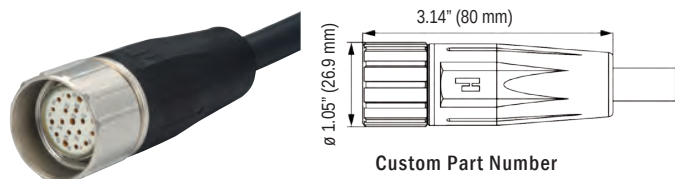
- INSERTS (page 17)

*PLEASE CONTACT SEALCON FOR MORE INFORMATION ON SPECIFICATIONS, CONFIGURATIONS, AND CUSTOM PRODUCTS.

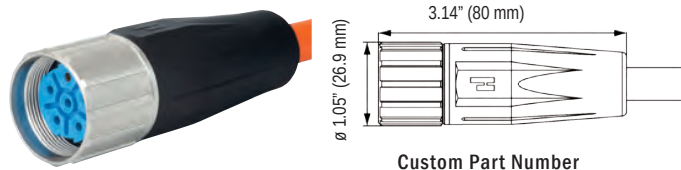
M23 MOLDED CORDSETS

CUSTOM M23 SIGNAL & POWER OVERMOLDED SOLUTIONS

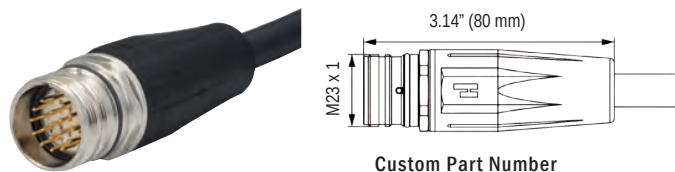
M23 Signal Straight Molded Cordset, Female Thread



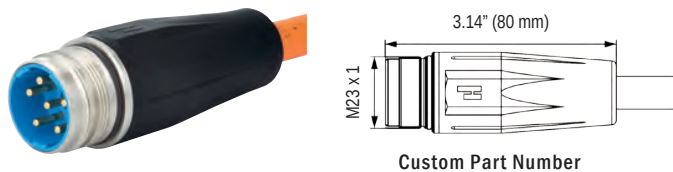
M23 Power Straight Molded Cordset, Female Thread



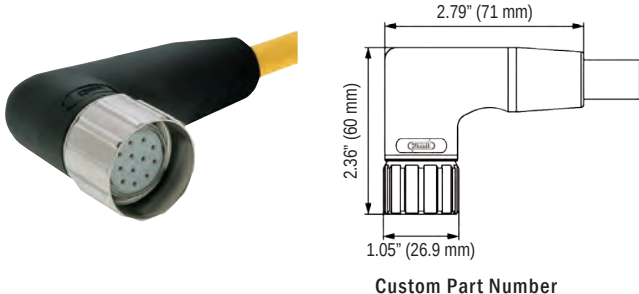
M23 Signal Straight Molded Cordset, Male Thread



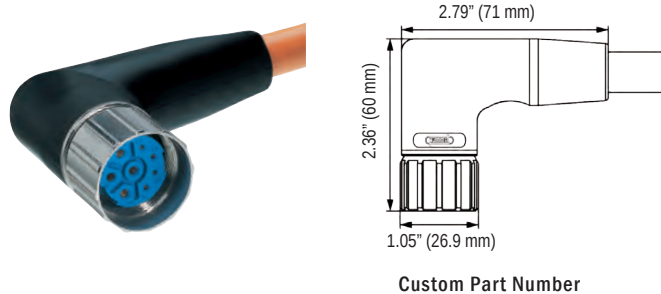
M23 Power Straight Molded Cordset, Male Thread



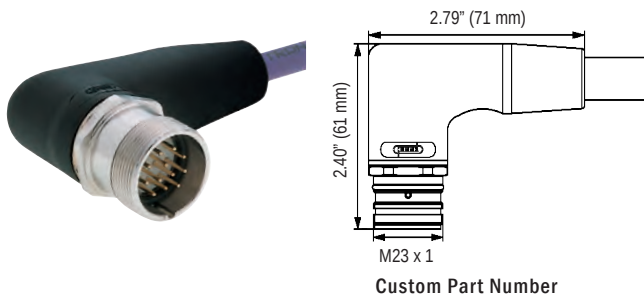
M23 Signal Right Angle Molded Cordset, Female Thread



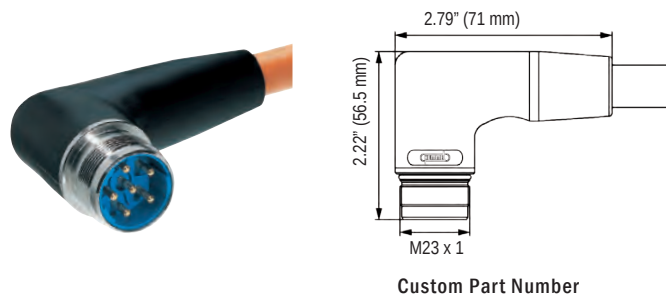
M23 Power Right Angle Molded Cordset, Female Thread



M23 Signal Right Angle Molded Cordset, Male Thread



M23 Power Right Angle Molded Cordset, Male Thread



M23 Signal Insert Options

- INSERTS (pages 44 - 48)

M23 Power Insert Options

- INSERTS (page 56)

*PLEASE CONTACT SEALCON FOR MORE INFORMATION ON SPECIFICATIONS, CONFIGURATIONS, AND CUSTOM PRODUCTS.

M23 RJ45 ETHERNET CONNECTORS FOR HAZLOC

Ex-i RJ45 ETHERNET CONNECTORS

Mechanical Data	Materials and Technical Data
Housing	Brass Alloy Die Cast
Housing surface	Nickel Plated Brass or Stainless Steel 316L
Inserts (for contacts)	PBT UL-94 V0, PA 6
Contacts	Brass Alloy
Contact surface at point of contact	Depends On RJ45 Type Used
Seals / O-Rings	Buna-N (Black) / FKM (Green)
Temperature range	Depends On RJ45 Type Used
Degree of Protection	IP 67 / 69K per EN 60529 (mated)
Cable diameter range	3 - 7 / 7 - 12 / 11 - 17 mm
Number of Positions	4 / 6 / 8 poles, Optional 4 + 2 / 6 + 2 / 8 + 2
Nominal Current [A]	Depends On RJ45 Type Used
Nominal Voltage [V~]	Depends On RJ45 Type Used
Test Voltage [V~]	Depends On RJ45 Type Used
Insulation Resistance [MΩ]	Depends On RJ45 Type Used
Max. Crossover Resistance [mΩ]	Depends On RJ45 Type Used
Max. Data Rate	Depends On RJ45 Type Used, IAW CAT5/5e/6a

The Ex-i RJ45 Connector for Hazardous Duty Locations is an intrinsically safe ethernet solution for low voltage applications, available in Nickel Plated Brass and Stainless Steel (316L). The Ex-i RJ45 is EMI ready, liquid-tight and easily assembled with a NEMA 4x rating. Its sturdy, impact-resistant design is ideal for industrial environments with CAT 5, 5e or CAT 6a requirements. Available in both cable connector and panel connector housings. This robust solution achieves an IP 67/IP 69K protection class per EN 60529 when mated.



Ex-i RJ45 Approvals:

- BVS 11 ATEX E 177
-  II M1 Ex ia I Ma
-  II 1 G Ex ia IIC Ta Ga
- IECEx

Components Needed For A Complete Ex-i RJ45 Connector:

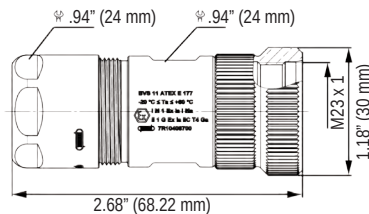
- **HOUSING** (pages 76 - 77)
- **INSERT** Not Included (contact Sealcon for more information)

Ideal in Low Voltage Applications!

- SCADA & RTU's
- Data Collection

M23 RJ45 Ex-i Straight Connector, EMI, Female Thread

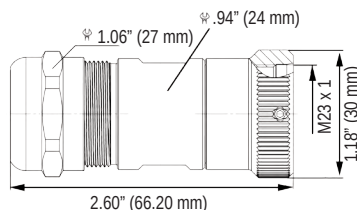
NICKEL PLATED BRASS



Cable-Ø	Part Number
.16\" - .28\" (4 - 7 mm).....	S7.R10.408.700
Straight, Female Thread	
.24\" - .47\" (6 - 12 mm).....	S7.R10.508.700
Straight, Female Thread	
.43\" - .67\" (11 - 17 mm).....	S7.R10.608.700
Straight, Female Thread	

M23 RJ45 Ex-i Straight Connector, EMI, Female Thread

STAINLESS STEEL 316L



Cable-Ø	Part Number
.16\" - .28\" (4 - 7 mm).....	S7.R10.408.740
Straight, Female Thread w/ FKM O-Rings	
.24\" - .47\" (6 - 12 mm).....	S7.R10.508.740
Straight, Female Thread w/ FKM O-Rings	
.43\" - .67\" (11 - 17 mm).....	S7.R10.608.740
Straight, Female Thread w/ FKM O-Rings	



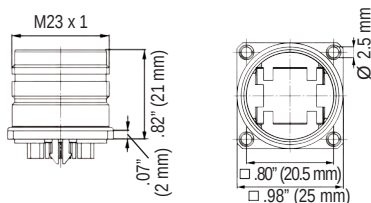
HOUSING ONLY. FIELD ATTACHABLE RJ45 CONNECTORS NOT INCLUDED. MORE INFORMATION CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

M23 RJ45 ETHERNET CONNECTORS FOR HAZLOC

Ex-i RJ45 ETHERNET CONNECTORS

M23 Rj45 Ex-i Panel Connector, Dip Solder Insert, Flange

NICKEL PLATED BRASS



Type

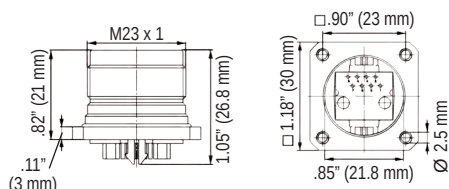
Part Number

Rear Mounting, Flange 25 x 25 mm
4 x Holes 2.5 mm.....S7.R45.008.700

Includes 8 pole Dip Solder Insert

M23 Rj45 Ex-i Panel Connector, Dip Solder Insert, Flange

STAINLESS STEEL 316L



Type

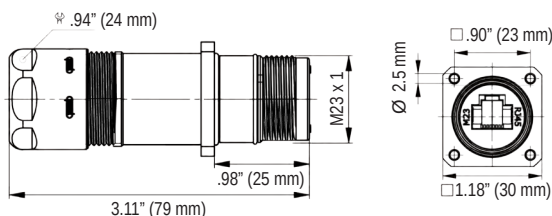
Part Number

Rear Mounting, Flange 30 x 30 mm
4 x Holes 2.5 mm.....S7.R45.008.740

Includes 8 pole Dip Solder Insert

M23 Rj45 Ex-i Panel Connector with Cable Gland, EMI, Flange

NICKEL PLATED BRASS



Cable-Ø

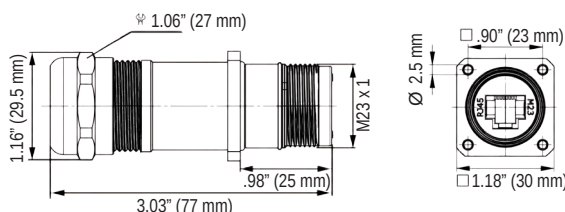
Part Number

Rear Mounting, 4 x Holes 2.5 mm, Flange 30 x 30 mm
16" - .28" (4 - 7 mm).....S7.R47.408.700

Includes 8 pole Coupler

M23 Rj45 Ex-i Panel Connector w/ Cable Gland, EMI, Male Thread, Flange

STAINLESS STEEL 316L



Cable-Ø

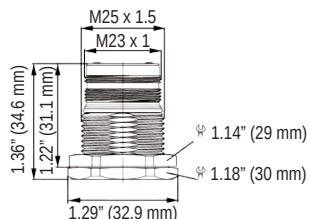
Part Number

Rear Mounting, 4 x Holes 2.5 mm, Flange 30 x 30 mm
.16" - .28" (4 - 7 mm).....S7.R47.408.740

Includes 8 pole Coupler

M23 Rj45 Ex-i Panel Connector, Single Hole, Male Thread

NICKEL PLATED BRASS



Type

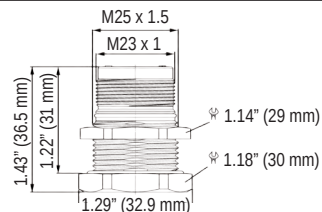
Part Number

Rear Mounting, Single Hole
Thread M25 x 1.5.....S7.R50.008.700

Includes 8 poles Couple & Hex Locking Nut M25 x 1.5

M23 Rj45 Ex-i Panel Connector, Single Hole, Male Thread

STAINLESS STEEL 316L



Type

Part Number

Rear Mounting, Single Hole
Thread M25 x 1.5.....S7.R50.008.740

Includes 8 poles Couple & Hex Locking Nut M25 x 1.5



HOUSING ONLY. FIELD ATTACHABLE RJ45 CONNECTORS NOT INCLUDED. MORE INFORMATION CAN BE FOUND AT WWW.SEALCONUSA.COM OR BY CALLING US AT 1-800-456-9012

CUSTOM CONNECTOR SOLUTIONS

DESIGN AND MANUFACTURING CAPABILITIES

Whether you are looking for a custom configuration or a specialty product, we have options available. With a vertically integrated, design, manufacturing, and distribution system, we can manufacture what you need. Contact us today for more information.



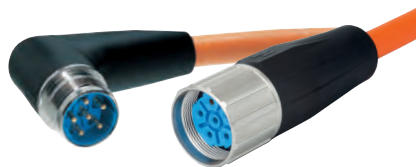
In addition to the integrated strain relief, the flex nut adds kink protection to a cable. Available for all connector sizes.



An integrated metalized EMI clamping insert grounds to the braid, significantly simplifying the assembly of the elbow connector. The connection achieves the protection class IP 67.



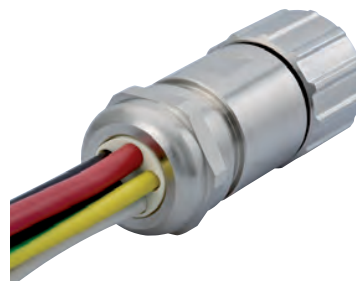
With the multi-insert, it is possible to set an ethernet and a power cable or multiple cables into one connector. The connection achieves the protection class IP 67.



Distribution-boxes are important components for applications in automation. Robust and fully wired, they are done according to the customer's specification. The connection achieves the protection class IP 67.



Sealcon offers custom adapters for ANACONDA conduit systems in rugged locations.





Sealcon offers additional cable management solutions, consisting of:

- **Cable Glands / Cord Grips**
- **Conduit Systems**
- **Adapters, Reducers, and Enlargers**
- **Locking Nuts**
- **Enclosures**

Further information on the products presented here and everything else Sealcon has to offer can be found on our website:

www.SealconUSA.com

Our website is consistently updated with new information. Sealcon catalogs, product announcements, videos and reference guides are also available for download online.

TECHNICAL INFORMATION

Nominal Current

Allowable current (Amp), that can be transmitted by each contact continuously and simultaneously.

Nominal Voltage

Allowable voltage (Volt), that can be applied to each contact continuously and simultaneously.

Test Voltage

Voltage which, under certain conditions, a connector can be exposed to without breakdown.

Degree of Protection

Potential dirt accumulation of a disconnected connector in a certain environment.

Degree of Protection 2

No permanent conductive dirt accumulation will occur. Temporary conductive dirt accumulation, such as condensation, is possible. Typical for households, offices, laboratories and test labs.

Degree of Protection 3

Conductive, as well as dry non-conductive dirt accumulation can occur. It can be temporarily conductive due to condensation. Typical for industrial and factory environments.

Additional Remarks (Pollution Level)

If connectors being defined for pollution degree 1 and overvoltage category 1 are applied for other conditions (higher pollution degree and higher overvoltage category), voltage levels reduce correspondingly. But the connectors can be used without any problems at reduced maximum voltages.

Mating Cycles

Mating cycles are the number of insertion and extraction cycles a connector can withstand before the electrical or mechanical failure in relationship to the connector's design specification.

Air Gap

The minimum gap of air between two conducting surfaces permissible at given voltage.

Creep Distance

The minimum dimension along the surface of an insulating material between two conducting surfaces.

PE

The PE-Contact is a ground contact for security reasons.

Safety Guidelines

When Sealcon connectors are used for voltages greater than 50 Volts with conductive shell components, they must be used in accordance with the safety regulations DIN VDE Part 410; IEC 60364-4-41. This regulation basically dictates that the power source should be turned off before mating and unmating connector. This regulation does not provide protection against electrical shock when mating and unmating connectors in the field.



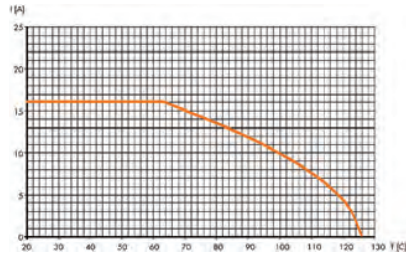
DO NOT CONNECT OR DISCONNECT
SEALCON CONNECTORS UNDER LOAD.

TECHNICAL INFORMATION

Derating M12 Power K+ L Coding

**Straight Connectors
Male + Female M12
Power**

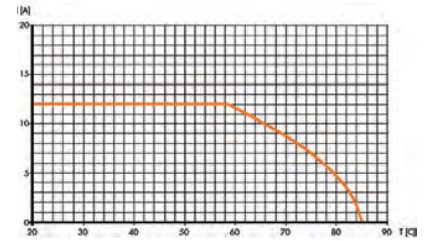
K- / L-Coding,
wires 4 x 16 AWG



Derating M12 Power S+T Coding

**Straight Connectors
Male + Female M12
Power**

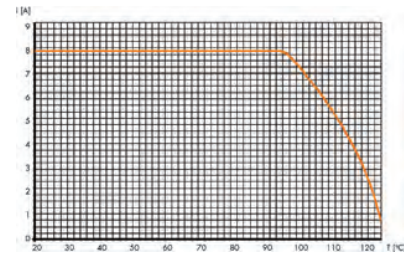
S-/T-Coding,
wires 4 x 16 AWG



Derating M16

**Straight Connectors
Male + Female M16**

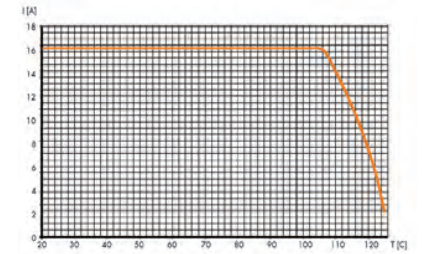
10 Pole,
wires 10 x 18 AWG



Derating TWINTUS

**TWINTUS and Straight
Connector Female M16**

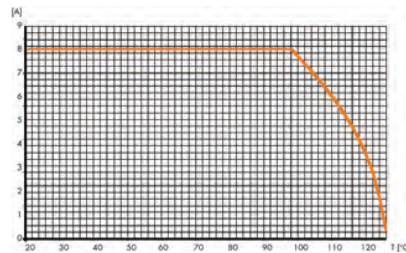
4+3+PE,
wires 14 AWG (Power)
10 pole,
wires 26 AWG



Derating M23 Signal

**Straight Connectors
Male + Female M23**

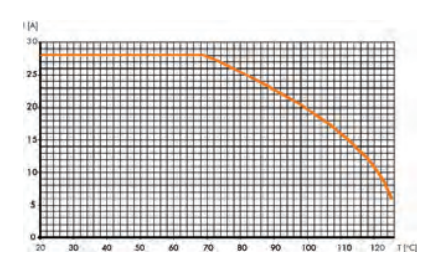
Wires 12 x 17 AWG



Derating M23 Power

**Straight Connectors
Male + Female M23**

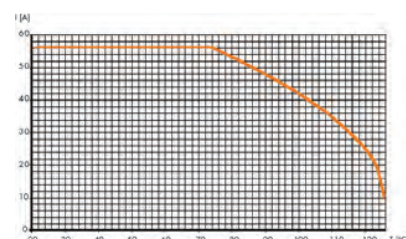
5 + PE,
wires 5 x 12 AWG



Derating M40 (Size 1.5)

**Straight Connectors
Male + Female M40**

Wires 3 x 6 AWG



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