

CIRCULAR CONNECTORS

M8 - M40, POWER - SIGNAL - ETHERNET





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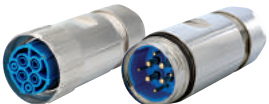
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Molded Cordsets

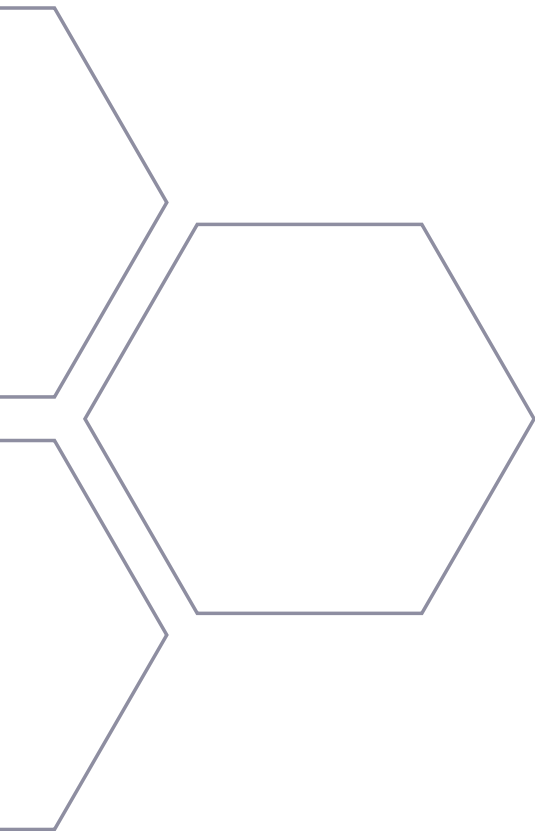
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CIRCULAR CONNECTOR OPTIONS FOR EVERY APPLICATION!



M8

M23 Signal

M12 Power

M12 Signal

M40 Power

M23 Power

M16 Signal

M23 PoE

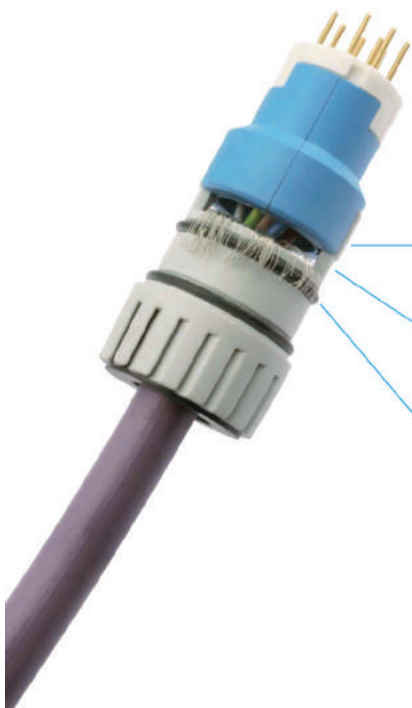
M27 Signal

M23 RJ45

CIRCULAR CONNECTORS (M8-M40)

CONNECTOR FEATURES + BENEFITS

- Clear and modular structure of all connector series
- Patented modular strain relief insert and contact insert
- One step cable assembly and shielding
- Simple, quick and reliable assembly into the connector housing



Color coding of spacers for male and female inserts



Cable assembly and shielding is possible in a single operation



Strain relief insert with four fingers, secured in a recess, prevents cable rotation



Flexible EMC-O-ring guarantees reliable EMC-protection for light and heavy braided shields

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 a leading German manufacturer of Liquid Tight Strain Relief Fittings, Cord Grips, Cable Glands, Circular Connectors, Flexible Conduit, and Other Cable & Wire Accessory Products.

Sealcon offers a vast portfolio of circular connectors to meet your requirements. Options are available in many sizes from M8 - M40 addressing power, signal, ethernet and hybrid variants.

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 staff will help to answer any technical questions and are able to recommend the correct product for your application.

HOW TO CONFIGURE A SEALCON CONNECTOR

1.



Choose Housing Based on:

1. **Signal or Power**
2. **Style** (straight, panel, right angle)
3. **Connection System** (threaded, Twilock, Twilock-S)
4. **Material** (Nickel Plated Brass, 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.



Programmable Controller

M 1	M 2	M 3	M 4	M 5	M 6	M 7	M 8	M 9	M 10
M 11	M 12	M 13	M 14	M 15	M 16	M 17	M 18	M 19	M 20
M 21	M 22	M 23	M 24	M 25	M 26	M 27	M 28	M 29	M 30
M 31	M 32	M 33	M 34	M 35	M 36	M 37	M 38	M 39	M 40
M 41	M 42	M 43	M 44	M 45	M 46	M 47	M 48	M 49	M 50
M 51	M 52	M 53	M 54	M 55	M 56	M 57	M 58	M 59	M 60
M 61	M 62	M 63	M 64	M 65	M 66	M 67	M 68	M 69	M 70
M 71	M 72	M 73	M 74	M 75	M 76	M 77	M 78	M 79	M 80
M 81	M 82	M 83	M 84	M 85	M 86	M 87	M 88	M 89	M 90
M 91	M 92	M 93	M 94	M 95	M 96	M 97	M 98	M 99	M 100

Control Panel with Keypad and Buttons

M8 - M12 CORDSETS

LOW VOLTAGE DATA TRANSMISSION

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy
Overmold	Thermoplastic Elastomer
Inserts (for contacts)	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

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.



Available in-stock with the following configurations.
Multiple lengths, cable material, and pin-out options available.

Visit www.SealconUSA.com or contact us for a complete list of cordset options and configurations available.

*Note: Cable length includes connector.

M8 - M12 CORDSETS

M8 CORDSETS

M8 CORDSETS -3 POSITIONS



Electrical Data	
Contact-Ø [mm] (AWG)	0.25 (24)
Nominal current [A]	2
Nominal voltage [V~] degree of protection 3	30
Test voltage (Breakdown voltage) [V~]	1000
Insulation resistance [MΩ]	> 10 ²
Max. contact resistance [mΩ]	< 5

100's 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

Female Straight / Male Straight, 3-Position

Cable Length	Cable Type	Part Number
5 meter	PVC	SJFFDFMD03M8050D



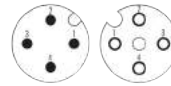
Female Straight / Male Straight, 3-Position

Cable Length	Cable Type	Part Number
2 meter	PVC	SJFFDFMD03M8020D



*Note: Cable length includes connector.

M12 CORDSETS - 4 POSITIONS, A-CODING

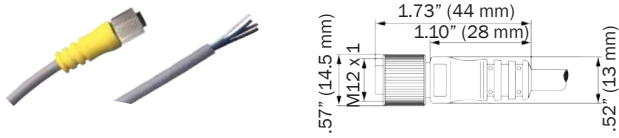


Electrical Data	
Contact-Ø [mm] (AWG)	0.34 (22)
Nominal current [A]	4
Nominal voltage [V~] degree of protection 3	240
Test voltage (Breakdown voltage) [V~]	1000
Insulation resistance [MΩ]	> 10 ⁹
Max. contact resistance [mΩ]	< 5

100's 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

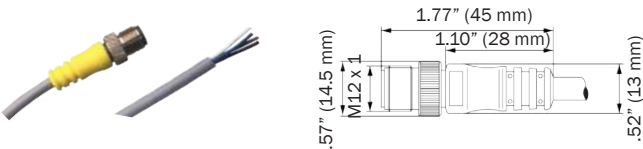
Female Straight / Flying Lead, 4-Position

Cable Length	Cable Type	Part Number
5 meter	PVC	SJFFD04M12050D



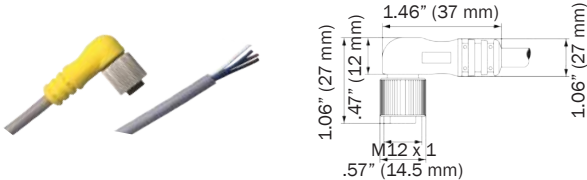
Male Straight / Flying Lead, 4-Position

Cable Length	Cable Type	Part Number
5 meter	PVC	SJFMD04M12050D



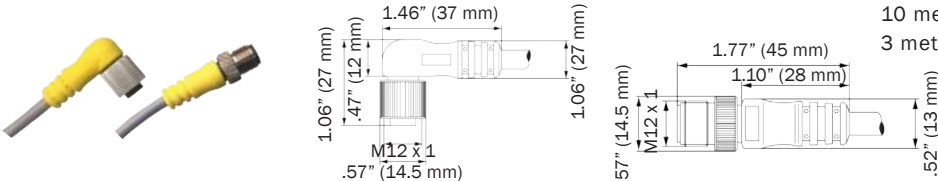
Female Right Angle / Flying Lead, 4-Position

Cable Length	Cable Type	Part Number
5 meter	PVC	SJFFC04M12050D



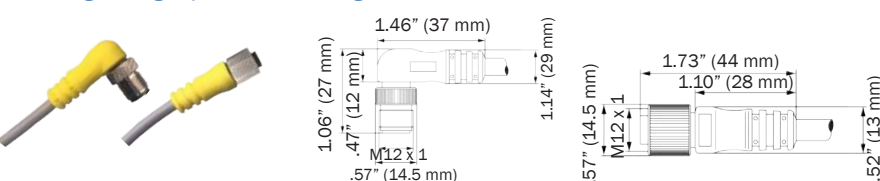
Female Right Angle / Male Straight, 4-Position

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



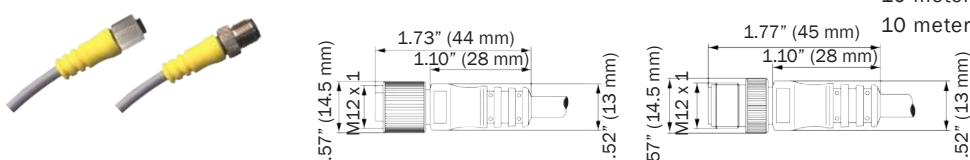
Male Right Angle / Female Straight, 4-Position

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



Female Straight / Male Straight, 4-Position

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

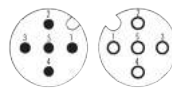


*Note: Cable length includes connector.

M8 - M12 CORDSETS

M12 CORDSETS

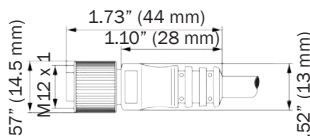
M12 CORDSETS -5 POSITIONS, A-CODING



Electrical Data	
Contact-Ø [mm] (AWG)	0.34 (22)
Nominal current [A]	4
Nominal voltage [V~] degree of protection 3	60
Test voltage (Breakdown voltage) [V~]	1000
Insulation resistance [MΩ]	> 10 ⁹
Max. contact resistance [mΩ]	< 5

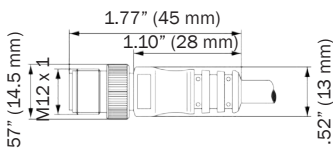
100's of other configurations are available in addition to what is listed in this catalog. Additional lead time may apply. Contact Sealcon for a complete list

Female Straight / Flying Lead, 5-Position



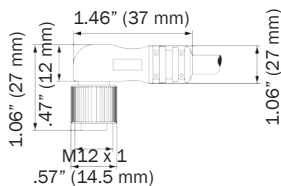
Cable Length	Cable Type	Part Number
10 meter	PVC	SJFFD04M12050D
2 meter	PVC	SJFFD05M12020D

Male Straight / Flying Lead, 5-Position



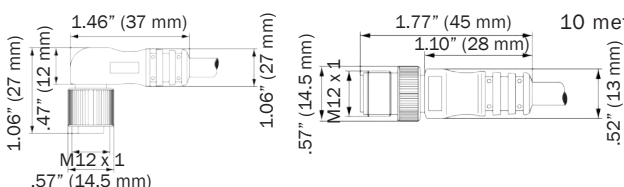
Cable Length	Cable Type	Part Number
10 meter	PVC	SJFMD05M12100D
2 meter	PVC	SJFMD05M12020D

Female Right Angle / Flying Lead, 5-Position



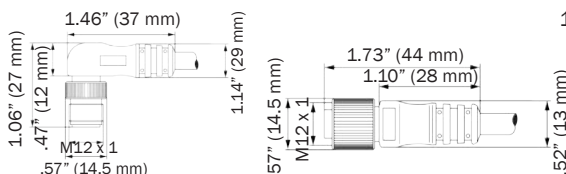
Cable Length	Cable Type	Part Number
10 meter	PVC	SJFFC05M12100D

Female Right Angle / Male Straight, 5-Position



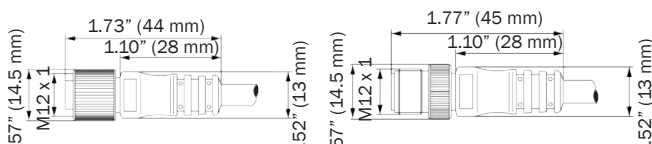
Cable Length	Cable Type	Part Number
10 meter	PVC	SJFFCFMD05M12100D

Male Right Angle / Female Straight, 5-Position



Cable Length	Cable Type	Part Number
10 meter	PVC	SJFFDFMC05M12100D

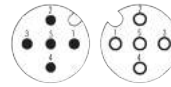
Female Straight / Male Straight, 5-Position



Cable Length	Cable Type	Part Number
10 meter	PVC	SJFFDFMD05M12100D

*Note: Cable length includes connector.

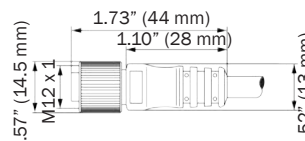
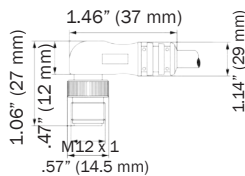
M12 CORDSETS -8 POSITIONS, A-CODING



Electrical Data	
Contact-Ø [mm] (AWG)	0.25 (24)
Nominal current [A]	2
Nominal voltage [V~] degree of protection 3	30
Test voltage (Breakdown voltage) [V~]	1000
Insulation resistance [MΩ]	> 10 ⁹
Max. contact resistance [mΩ]	< 5

100's 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

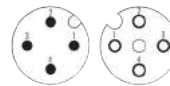
Male Right Angle / Female Straight, 8-Position



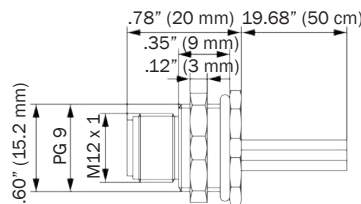
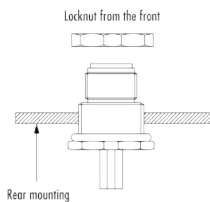
Cable Length	Cable Type	Part Number
5 meter	PVC.....	SJFFDFMC08M12100D

M12 PANEL MOUNTS WITH CABLE -4 POSITIONS, A-CODING

Electrical Data	
Contact-Ø [mm] (AWG)	0.25 (24)
Nominal current [A]	4
Nominal voltage [V~] degree of protection 3	60
Test voltage (Breakdown voltage) [V~]	1000
Insulation resistance [MΩ]	> 10 ⁹

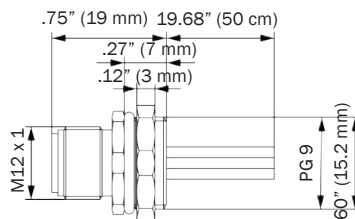
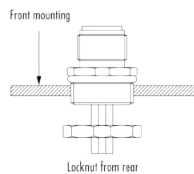


Rear Panel Mount - M12



Cable Length	Part Number
50 cm	SJEM04M12PG9BM50

Front Panel Mount - M12



Cable Length	Part Number
50 cm	SJEM04M12PG9FM50

*Note: Cable length includes connector.



A major milestone in an age of miniaturization: the M12 Power. Circular connectors in the past 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 16 Amps, this connector solves space requirement issues required in today's automation industry.



Mechanical Data	Materials and Technical Data
Housing	Brass / Die Cast INOX AISI 316 L TPU (moulded versions)
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
Seals / O-Rings	FKM / Buna-N / HNBR
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)

Electrical Data	S (Screw)	T (Screw)	K (Crimp)	L (Crimp)
Coding				
Colors	black	dark grey	blue	grey
Number of positions	4 (3 + PE)	4	5 (4 + PE)	5 (4 + PE)
AWG	0.5 - 1.5 mm AWG 20 - 16	0.5 - 1.5 mm AWG 20 - 16	0.75 - 2.5 mm AWG 18 - 14	0.75 - 2.5 mm 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.

Components Needed For A Complete M12 Power Connector:

- HOUSING (pg 14 - 16)
- INSERT (pg 17)
- CONTACTS (if crimp contact insert is selected) (pg 17)
- *S+T codings require ferrules for installation

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



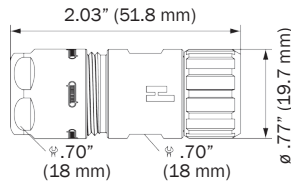
Do not connect or disconnect Sealcon Connectors under load

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M12 POWER

HOUSINGS

Straight Connector, Female Thread



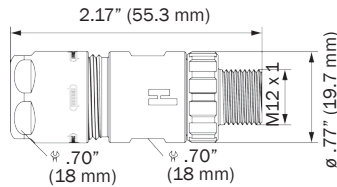
Cable-Ø	Coding	Part Number
3 - 6 mm (.11 - .23")	.....K, L.....	SA712-7.K10.300.000
5 - 9 mm (.20 - .35")	.....K, L.....	SA712-7.K10.400.000
8 - 11 mm (.31 - .43")	.....K, L.....	SA712-7.K10.500.000

Crimp

Cable-Ø	Coding	Part Number
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

Screw

Straight Connector, Male Thread



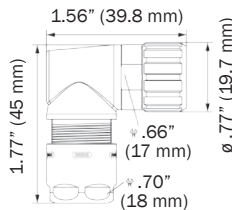
Cable-Ø	Coding	Part Number
3 - 6 mm (.11 - .23")	.....K, L.....	SA712-7.K20.300.000
5 - 9 mm (.20 - .35")	.....K, L.....	SA712-7.K20.400.000
8 - 11 mm (.31 - .43")	.....K, L.....	SA712-7.K20.500.000

Crimp

Cable-Ø	Coding	Part Number
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

Screw

Right Angle Connector, Female Thread



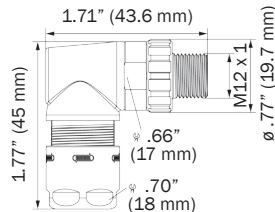
Cable-Ø	Coding	Part Number
3 - 6 mm (.11 - .23")	.....K, L.....	SA712-7.K30.300.000
5 - 9 mm (.20 - .35")	.....K, L.....	SA712-7.K30.400.000
8 - 11 mm (.31 - .43")	.....K, L.....	SA712-7.K30.500.000

Crimp

Cable-Ø	Coding	Part Number
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

Screw

Right Angle Connector, Male Thread



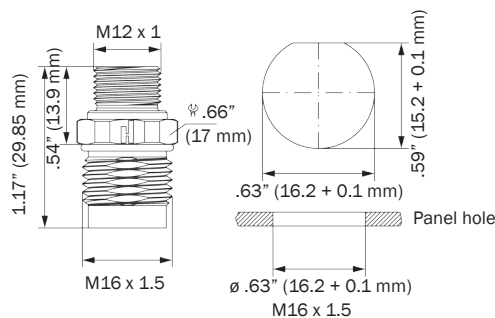
Cable-Ø	Coding	Part Number
3 - 6 mm (.11 - .23")	.....K, L.....	SA712-7.K31.300.000
5 - 9 mm (.20 - .35")	.....K, L.....	SA712-7.K31.400.000
8 - 11 mm (.31 - .43")	.....K, L.....	SA712-7.K31.500.000

Crimp

Cable-Ø	Coding	Part Number
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

Screw

Panel Connector Male Thread, Single Hole Front Mounted



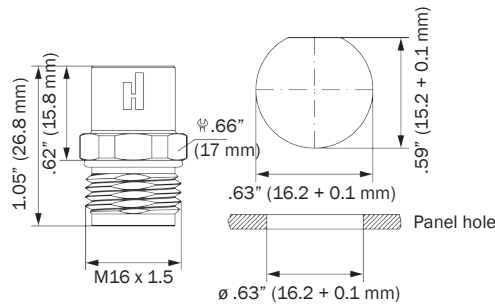
Type	Part Number
Thread M16 K, L (Crimp).....	SA712-7.K42.000.000
Thread M20 K, L (Crimp).....	SA712-7.K42.100.000
Thread M20 S, T (Screw).....	SA712-7.S42.000.000
with lock nut "rotation protection"	
Thread M16 K, L (Crimp).....	SA712-7.K42.000.00G
Thread M20 K, L (Crimp).....	SA712-7.K42.100.00G
Thread M20 S, T (Screw).....	SA712-7.S42.000.00G

S+T codings require ferrules for installation, see page 13 for specifications



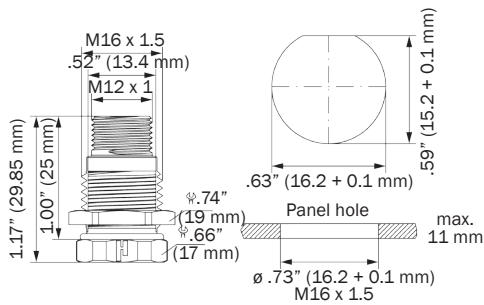
Pin inserts mountable with male thread housings only.
Socket inserts mountable with female thread housings only.
Drawings apply for coding K + L only.

Panel Connector Female Thread, Single Hole Front Mounted



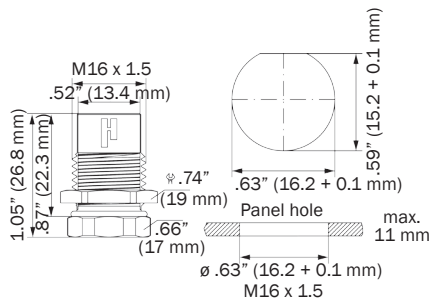
Type	Part Number
Thread M16 K, L (Crimp).....	SA712-7.K44.000.000
Thread M20 K, L (Crimp).....	SA712-7.K44.100.000
Thread M20 S, T (Screw).....	SA712-7.S44.000.000
with lock nut "rotation protection"	
Thread M16 K, L (Crimp).....	SA712-7.K44.000.00G
Thread M20 K, L (Crimp).....	SA712-7.K44.100.00G
Thread M20 S, T (Screw).....	SA712-7.S44.000.00G

Panel Connector Male Thread, Single Hole Rear Mounted



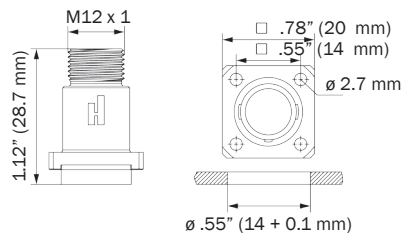
Type	Part Number
Thread M16 K, L (Crimp).....	SA712-7.K50.000.000
Thread M20 S, T (Screw).....	SA712-7.S50.000.000

Panel Connector Female Thread, Single Hole Rear Mounted



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

Panel Connector Male Thread, Front Mounting



Type	Part Number
with flange 20 x 20 mm, 4 x 2.7 mm K, L (Crimp).....	SA712-7.K40.000.000
with flange 25 x 25 mm, 4 x 2.7 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

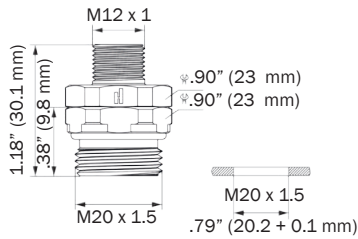


Pin inserts mountable with male thread housings only.
Socket inserts mountable with female thread housings only.
Drawings apply for coding K + L only.

M12 POWER

HOUSINGS, ACCESSORIES

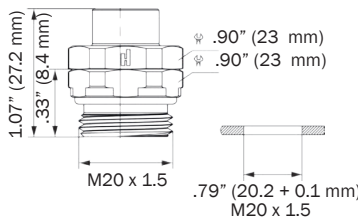
Panel Connector Male Thread, Single Hole Front Mounted, Orientable



Type	Part Number
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

Panel Connector Female Thread, Single Hole Front Mounted, Orientable



Type	Part Number
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



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 threadSA712-7.010.900.163



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.....A712-7.010.900.162



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


*Upon Request


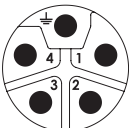
S+T codings require ferrules for installation, see page 13 for specifications




Pin inserts mountable with male thread housings only.
Socket inserts mountable with female thread housings only.

Inserts K-Coding (Crimp)		Type	Part Number
		Crimp insert, pins, 4 + PE without contacts .....SA712-7.K03.941.101 Required contacts: 4 x pins, 1 x socket PE	
Insert Pin Mating View	Insert Socket Mating View		
		Crimp insert, sockets, 4 + PE without contacts .....SA712-7.K03.941.102 Required contacts: 4 x sockets, 1 x pin	


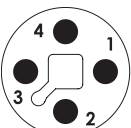
 Max wire insulation \varnothing 2.9 mm

Inserts L-Coding (Crimp)		Type	Part Number
		Crimp insert, pins, 4 + PE without contacts .....SA712-7.L03.941.101 Required contacts: 4 x pins, 1 x socket PE	
Insert Pin Mating View	Insert Socket Mating View		
		Crimp insert, sockets, 4 + PE without contacts .....SA712-7.L03.941.102 Required contacts: 4 x sockets, 1 x pin	




 Max wire insulation \varnothing 2.9 mm

Inserts S-Coding (Screw)		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	
Insert Pin Mating View	Insert Socket Mating View		

S+T codings require ferrules for installation, see page 13 for specifications

Inserts T-Coding (Screw)		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	
Insert Pin Mating View	Insert Socket Mating View		

S+T codings require ferrules for installation, see page 13 for specifications

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

These values are only guidelines and actual conductor cross sections depend on manufacturer tolerances.

*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 standard, optional FKM
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 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. The M16 connector is ideal for small drives but is very diverse in its application potential.



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		1.6	
AWG [mm2]	(26 - 17) 0.14 - 1		(20 - 14) 0.5 - 2.5		(28 - 22) 0.08 - 0.34		(22 - 16) 0.34 - 1.5	
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	6 + PE		10		12 + 3		18	
Number of contacts	7		10		12		3	
Contact-Ø [mm]	1.25		1		0.8		1.25	
AWG [mm2]	(20 - 16) 0.5 - 1.5		(26 - 18) .14 - 0.75		(28 - 20) 0.08 - 0.34		(20 - 16) 0.5 - 1.5	
Nominal current [A]	16		8		3		10	
Nominal voltage [V~] degree of protection	600		160		24		60	
Test voltage (Breakdown voltage) [V~]	2500		1500		1500		2500	
Insulation resistance [MΩ]	> 10 ¹⁰		> 10 ⁶		> 10 ¹⁰		> 10 ¹⁰	
Max. contact resistance [mΩ]	3		3		3		3	

Connection System Types

THREADED

TWILOCK 1/4 Turn



Components Needed For A Complete M16 Signal Connector:

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

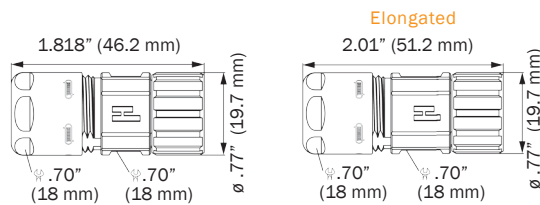
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M16 CONNECTORS

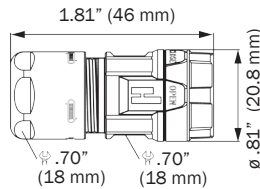
HOUSINGS

Straight Connector, Female Thread / Elongated



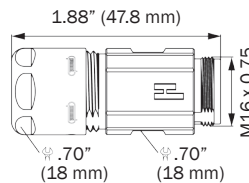
Cable-Ø	Part Number
3 - 6 mm (.11 - .23")	S7.810.300.000
5 - 9 mm (.20 - .35")	S7.810.400.000
8 - 11 mm (.31 - .43")	S7.810.500.000
*Elongated	
3 - 6 mm (.11 - .23")	S7.811.300.000
5 - 9 mm (.20 - .35")	S7.811.400.000
8 - 11 mm (.31 - .43")	S7.811.500.000

Straight Connector, 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

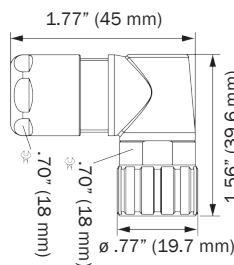
Straight Connector, Male Thread



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

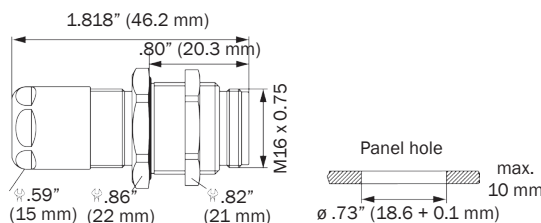
ALSO MATES WITH TWILOCK SYSTEM

Right Angle Connector With Positioning



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

Panel Connector With Built In Cable Strain Relief



Cable-Ø	Part Number
Rear mounting, single hole mounted	
2 - 7 mm (.08 - .27")	S7.852.300.000
5 - 9 mm (.20 - .35")	S7.852.400.000

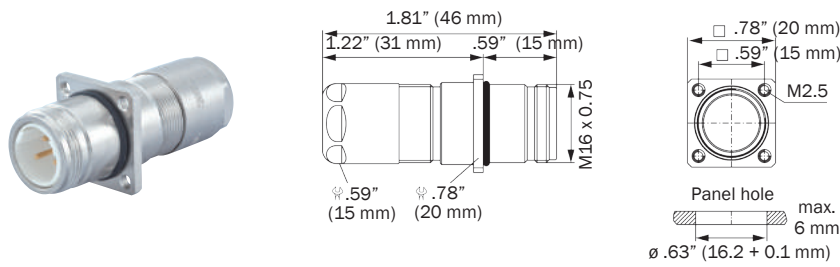
Including jam nut PG11

ALSO MATES WITH TWILOCK SYSTEM

M16 CONNECTORS

HOUSINGS

Panel Connector With Built In Cable Strain Relief



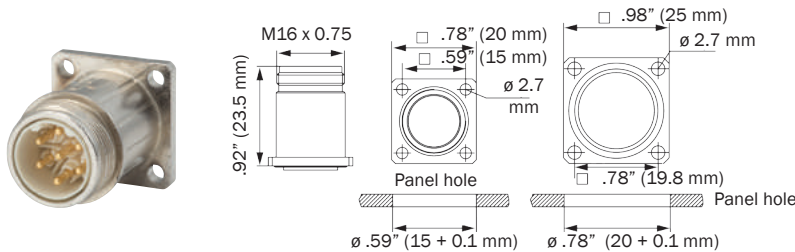
Cable-Ø

Part Number

Rear mounting, M2.5 x 4 single hole mounted
 2 - 7 mm (.08 - .27").....S7.847.300.000
 5 - 9 mm (.20 - .35").....S7.847.400.000

***ALSO MATES WITH
 TWILOCK SYSTEM***

Panel Connector, Male Thread, Front Mounting



Type

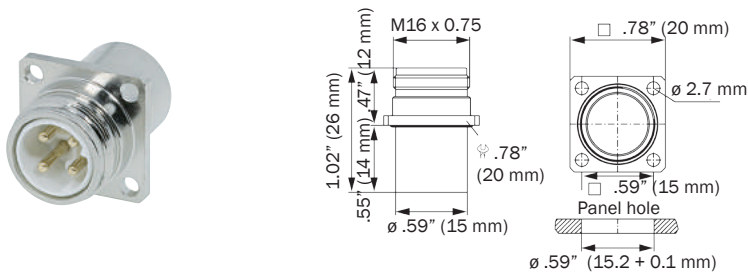
Part Number

4 x holes Ø 2.7 mm (.11")S7.840.000.000
 Flange 20 x 20 mm

4 x holes Ø 2.7 mm (.11")S7.840.100.000
 Flange 25 x 25 mm
 Optional: Flat gasket....STAD1-7P2510

***ALSO MATES WITH
 TWILOCK SYSTEM***

Panel Connector, Male Thread, Front Mounting



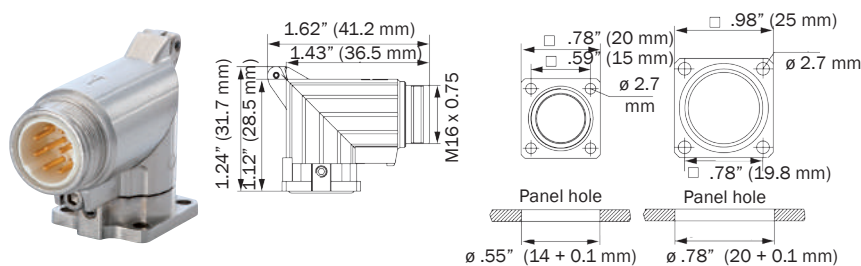
Type

Part Number

Short version
 4 x holes Ø 2.7 mm (.11")S7.840.200.000
 Flange 20 x 20 mm

***ALSO MATES WITH
 TWILOCK SYSTEM***

Right Angle Panel Connector, Male Thread, Rotatable



Type

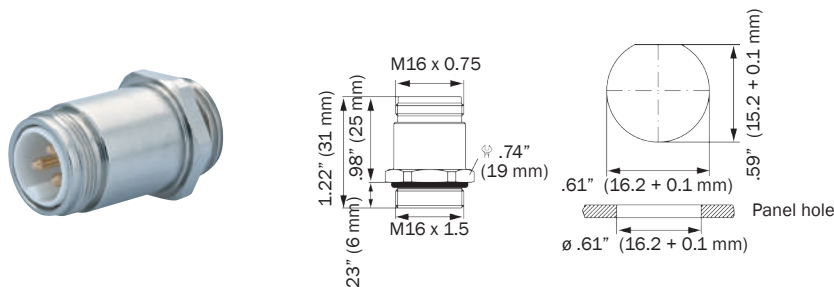
Part Number

300° rotatable, locking screw at flange
 4 x holes Ø 2.7 mm (.11")S7.843.000.000
 Flange 20 x 20 mm

4 x holes Ø 2.7 mm (.11")S7.843.100.000
 Flange 25 x 25 mm
 Optional: Flat gasket....STAD1-7P2510

***ALSO MATES WITH
 TWILOCK SYSTEM***

Panel Connector, Male Thread, Front Mounting



Type

Part Number

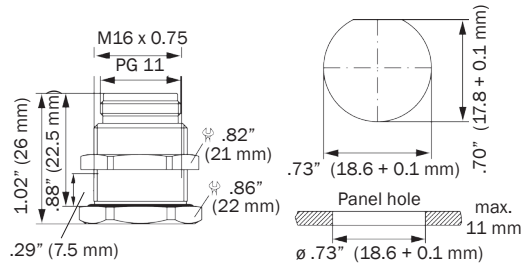
Front mounting, single hole mounted
 Thread M16 x 1.5.....S7.842.000.000

***ALSO MATES WITH
 TWILOCK SYSTEM***

M16 CONNECTORS

HOUSINGS

Panel Connector, Male Thread, Rear Mounting



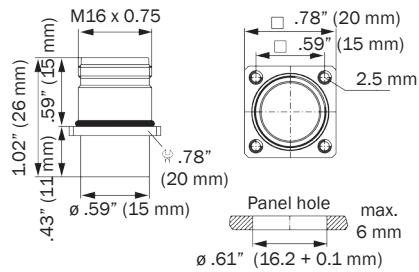
Type Part Number

Rear mounting, single hole mounted
Including jam nutS7.850.000.000

Including jam nut PG11

***ALSO MATES WITH
TWILOCK SYSTEM***

Panel Connector, Male Thread, Rear Mounting

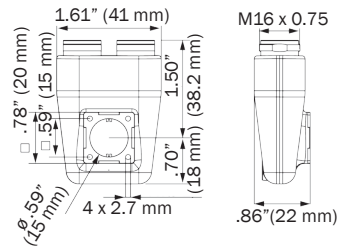


Type Part Number

Rear mounting, 4 x thread M2.5
Flange 20 x 20 mm.....S7.845.000.000

***ALSO MATES WITH
TWILOCK SYSTEM***

TWINTUS



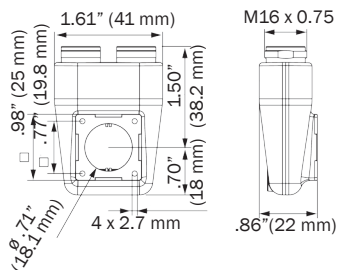
Type Part Number

Flange 20 x 20 mm
UncoatedS7.848.000.000
Surface nickel platedS7.848.000.001
Surface black conductiveS7.848.000.00B

***INSERT OPTIONS AVAILABLE
ON PAGE 26***

***ALSO MATES WITH
TWILOCK SYSTEM***

TWINTUS



Type Part Number

Flange 25 x 25 mm
UncoatedS7.848.100.000
Surface nickel platedS7.848.100.001
Surface black conductiveS7.848.100.00B

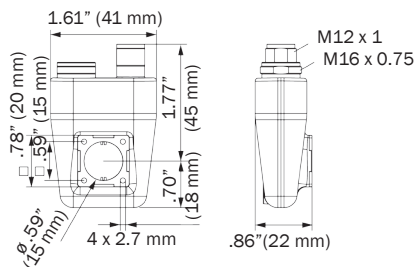
***INSERT OPTIONS AVAILABLE
ON PAGE 26***

***ALSO MATES WITH
TWILOCK SYSTEM***

M16 CONNECTORS

HOUSINGS

TWINTUS M16 / M12

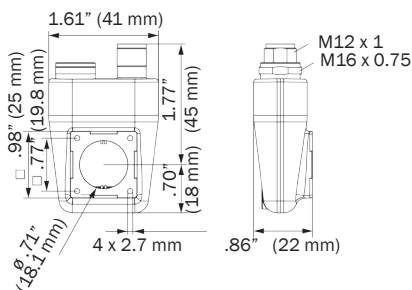


Type	Part Number
Flange 20 x 20 mm	
Uncoated	S7.848.200.000
Surface nickel plated	S7.848.200.001
Surface black conductive	S7.848.200.00B

*INSERT OPTIONS AVAILABLE
ON PAGE 26*

*ALSO MATES WITH
TWILOCK SYSTEM*

TWINTUS M16 / M12



Type	Part Number
Flange 25 x 25 mm	
Uncoated	S7.848.300.000
Surface nickel plated	S7.848.300.001
Surface black conductive	S7.848.300.00B

*INSERT OPTIONS AVAILABLE
ON PAGE 26*

*ALSO MATES WITH
TWILOCK SYSTEM*



Plastic protective cap for connectors
with male thread.....S7.000.980.161
with female threadS7.000.980.162



Brass protective cap with chain for
connectors with female thread
Length 70 mm.....S7.010.9S0.705^{*)}



Brass protective cap for connectors with
female threadS7.010.900.163^{*)}



Brass protective cap with chain
for connectors with male thread
Length 70 mm.....S7.010.9S0.704



Brass protective cap for connectors with
male thread.....S7.010.900.162



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



Adaptor flange
for Straight Connectors..S7.010.900.135



Plastic protective cap for TWINTUS
TWINTUS M16.....S7.000.848.101
TWINTUS M16 / M12.....S7.000.848.102



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



Screw Tool, adjustable 0.5 - 1.7 Nm



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





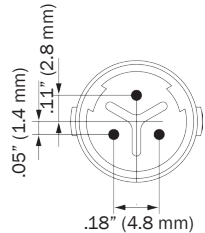
Disassembly Tool
for crimp contacts 1.25 mm...S7.010.900.151



^{*)} No compatibility with TWILOCK

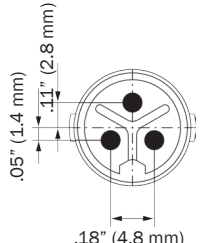
M16 CONNECTORS



INSERTS

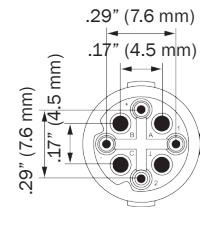
Inserts 3-pole (3 x 1 mm)		Type	Part Number	Part Number
			Pins	Sockets
				
Insert Pin Mating View	Insert Socket Mating View	Insert without contacts.....	S7.003.903.101	S7.003.903.102
		Insert with dip solder contacts Length 10 mm.....	S7.001.903.127	S7.001.903.108
		Insert with dip solder contacts Length 17 mm.....	S7.001.903.137	S7.001.903.118
		Required Contacts		
		3 x 1 mm	S7.010.901.001...S7.010.901.002/7.010.901.012	





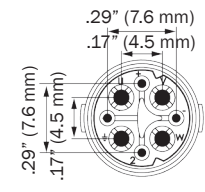
Inserts 3-pole (3 x 2 mm)		Type	Part Number	Part Number
			Pins	Sockets
				
Insert Pin Mating View	Insert Socket Mating View	Insert without contacts.....	S7.003.983.101	S7.003.983.102
		Insert with dip solder contacts Length 10 mm.....	S7.001.983.127	S7.001.983.108
		Insert with dip solder contacts 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 4+3+PE, 320 V		Type	Part Number	Part Number
			Pins	Sockets
				
Insert Pin Mating View	Insert Socket Mating View	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



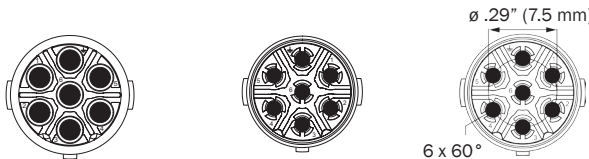
Inserts 4+3+PE, 600 V		Type	Part Number	Part Number
			Pins	Sockets
				
Insert Pin Mating View	Insert Socket Mating View	Insert without contacts.....	S7.003.908.101*	S7.003.908.102*
		Insert RAL 2003 (DESINA orange) without contacts	S7.053.908.101*	S7.053.908.102*
		Insert with dip solder contacts - 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

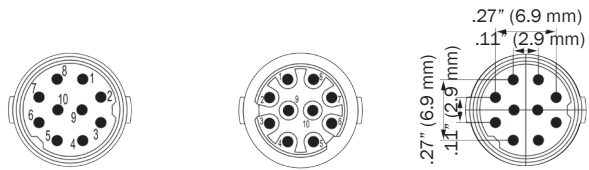


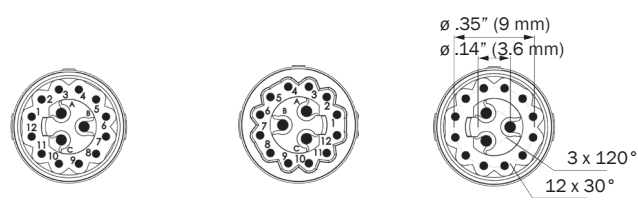
*Disassembly tool required for removing 1.25 mm contacts...S7.010.900.151

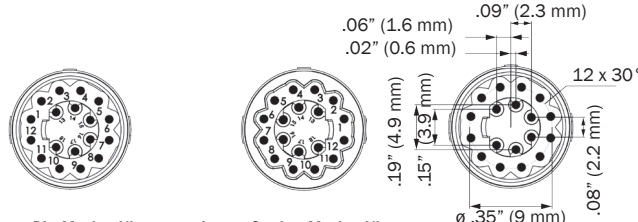
M16 CONNECTORS

INSERTS

Inserts 6+PE	Type	Part Number	
		Pins	Sockets
 <p>Insert Pin Mating View Insert Socket Mating View</p>	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
	*Disassembly tool required for removing 1.25 mm contacts...S7.010.900.151		

Inserts 10-pole	Type	Part Number	
		Pins	Sockets
 <p>Insert Pin Mating View Insert Socket Mating View</p>	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 12+3-pole	Type	Part Number	
		Pins	Sockets
 <p>Insert Pin Mating View Insert Socket Mating View</p>	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
	*Disassembly tool required for removing 1.25 mm contacts...S7.010.900.151		

Inserts 18-pole	Type	Part Number	
		Pins	Sockets
 <p>Insert Pin Mating View Insert Socket Mating View</p>	Insert without contacts.....	S7.003.988.101	S7.003.988.102
	Insert RAL 2003 (DESINA green) without contacts	S7.053.988.101	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 mm	S7.010.980.801	S7.010.980.802


*Under Development

M16 CONNECTORS


















INSERTS, CONTACTS

Inserts M12 for TWINTUS M16 / M12 (8-pole)	Type	Part Number
	Insert with solder contacts.....	Pins SA712-7.001.908.103

Insert Pin Mating View

Inserts M12 for TWINTUS M16 / M12 (12-pole)	Type	Part Number
	Insert with solder contacts.....	Pins SA712-7.001.912.103

Insert Pin Mating View

Contacts	Type	Crimp Range	Part Number
	Crimp pin 0.8 mm, machined.....	0.08 - 0.34 mm ² (AWG 28 - 22).....	S7.010.980.801
	Crimp socket 0.8 mm, machined.....	0.08 - 0.34 mm ² (AWG 28 - 22).....	S7.010.980.802
	Crimp pin 0.8 mm, machined.....	0.08 - 0.34 mm ² (AWG 28 - 22).....	S7.010.980.811
	Crimp socket 0.8 mm, machined.....	0.08 - 0.34 mm ² (AWG 28 - 22).....	S7.010.980.812
	Crimp pin 1 mm, machined.....	0.08 - 0.75 mm ² (AWG 28 - 18).....	S7.010.981.001
	Crimp socket 1 mm, machined	0.08 - 0.75 mm ² (AWG 28 - 18).....	S7.010.981.002
	Crimp pin 1 mm, machined.....	0.14 - 1 mm ² (AWG 26 - 17).....	S7.010.901.001
	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 pin 1.25 mm, machined.....	0.5 - 1.5 mm ² (AWG 20 - 16).....	S7.010.981.201
	Crimp socket 1.25 mm, machined	0.5 - 1.5 mm ² (AWG 20 - 16).....	S7.010.981.202
	Crimp pin 1.25 mm, machined.....	0.34 - 1.5 mm ² (AWG 20 - 16).....	S7.010.981.211
	Crimp socket 1.25 mm, machined.....	0.34 - 1.5 mm ² (AWG 20 - 16).....	S7.010.981.212
	Crimp pin 1.6 mm, machined.....	0.34 - 1.5 mm ² (AWG 22 - 16).....	S7.010.981.601
	Crimp socket 1.6 mm, machined.....	0.34 - 1.5 mm ² (AWG 22 - 16).....	S7.010.981.602
	Crimp pin 2 mm, machined.....	1.0 - 2.5 mm ² (AWG 17 - 14).....	S7.010.982.001
	Crimp socket 2 mm, machined.....	1.0 - 2.5 mm ² (AWG 17 - 14).....	S7.010.982.002

M16



M23 POE CONNECTORS

POWER OVER ETHERNET

The M23 PoE connector is capable of CAT 7 and capable of transmitting up to a gigabit. A hybrid connector with four Twinax inserts for data transfer all in a single cable solution. Designed for use in rough industrial environments, the robust durability will withstand many applications while also having 5 separate shieldings to prevent cross talk.



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
Seals / O-Rings	Perbunan NBR (Standard)
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)

Electrical Data		
Number of positions	20 (4 x 2 + 12)	
Number of contacts	4 x 2	12
Contact-Ø [mm]	0.6	1
AWG [mm ²]	(28 - 22) 0.8 - 0.34 mm	(26 - 16) 0.14 - 1/1.5 mm
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	-

Components Needed For A Complete M23 PoE Connector:

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

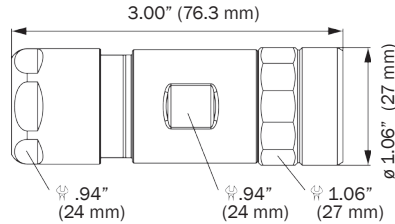
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M23 POE CONNECTORS

HOUSINGS

Straight Female Connector

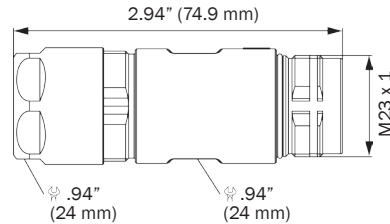


Cable-Ø

Part Number

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

Straight Connector, Male Thread

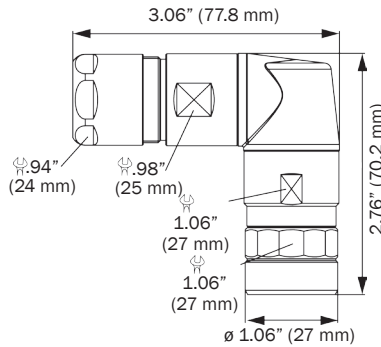


Cable-Ø

Part Number

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

Right Angle Connector, Female Thread , Rotatable

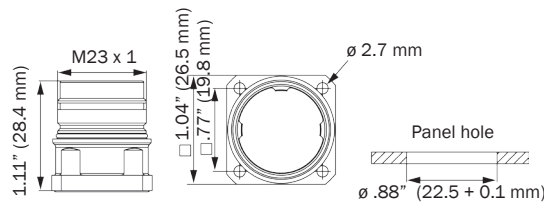


Cable-Ø

Part Number

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

Panel Connector, Male Thread, Front Mounting

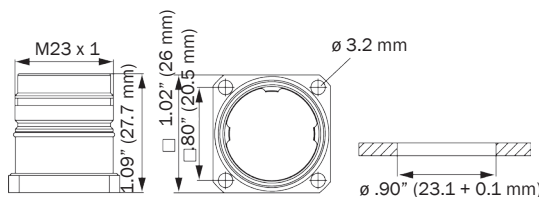


Type

Part Number

4 x holes Ø 2.7 mm (.11").....S7.408.000.000
Flange 26 x 26 mm

Panel Connector, Rear Mounting





Type





Part Number

4 x holes Ø 3.2 mm (.13").....S7.468.000.000
Flange 26 x 26 mm

M23 POE CONNECTORS

INSERTS, CONTACTS, ACCESSORIES

Inserts (4 x 2) + 12	Type	Part Number	Part Number
 Insert Pin Mating View	 Insert Socket Mating View	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 0.6	S7.010.980.641.....	S7.010.980.602
	12 x 1	S7.010.901.045.....	S7.010.901.002
	.....	S7.010.901.049.....	S7.010.901.012
	.....	.....	S7.010.901.022
	.....	.....	S7.010.901.046

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



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 thread.....S7.010.908.102



Adaptor flange for Straight Connectors..S7.010.900.128



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



Control Cabinet adapter for Multibus II - AIDA
Rear Mounting, central locking
.....S7.010.900.145



I / O adapter module to scan or feed signals Rear Mounting, central locking ...
.....S7.010.900.146



Brass protective cap with chain for connectors with female thread
Length 70 mm.....S7.010.9S0.783
Length 100 mm.....S7.010.9S1.083



Adaptor flange for Moulded Connectors.....S7.010.900.139

Multi-Bus adapter wired through I:I (excentric)

Multi-Bus I, Female Thread, Sockets 17pole
Multi-Bus II, Male Thread, Pins.....
.....S7.010.900.143



Multi-Bus I, Female Thread, Pins, 17pole
Multi-Bus II, Male Thread, Sockets
.....S7.010.900.144



Manual Crimp tool for EMC sleeves M23
Fast EthernetS7.000.900.906



Manual Crimp tool for turned contacts M23 Fast Ethernet
.....S7.000.900.907



M23 RJ45 CONNECTORS

SAFE DATA TRANSFERS

The M23 RJ45 is built for industrial environments with CAT 5, 5e and CAT 6a capabilities. 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. The system achieves a IP 67 / IP 69 K protection class.



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	NBR / FKM
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 1) [A]	Depends On RJ45 Type Used
Nominal Voltage 2) [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

Components Needed For A Complete M23 RJ45 Connector:

- HOUSING (pg 33 - 35)
- INSERT Included

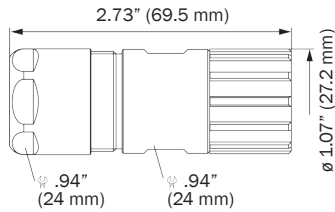
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M23 RJ45 CONNECTORS

HOUSINGS

Straight Connector Female Thread



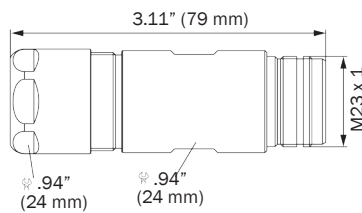
Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	S7.R10.400.000

Connector with insert for patch cable

Suitable patch cable and plugs can be recommended.

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

Straight Connector Male Thread

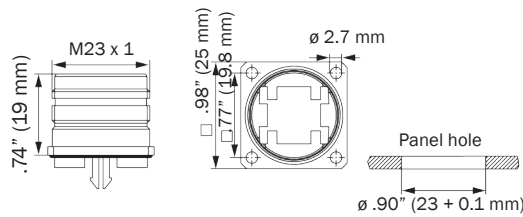


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	S7.R20.408.000

Incl. 8 poles coupler, fully occupied

FEMALE / FEMALE COUPLER

Panel Connector Front Mount, dip solder insert



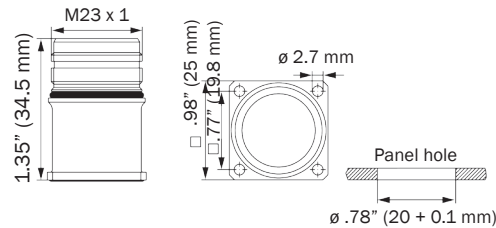
Type	Part Number
4 holes 2.7 mm, Flange	S7.R40.008.000

Incl. 8 poles dip solder insert

4 holes 2.7 mm, Flange	S7.R40.082.000
------------------------	----------------

Incl. 8 + 2 poles dip solder insert

Panel Connector, Front Mount



Type	Part Number
with vibration protection	
4 holes 2.7 mm, Flange	S7.R41.008.000

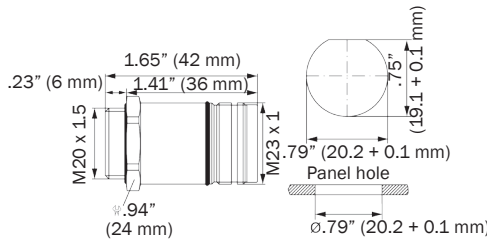
Incl. 8 poles coupler, fully occupied

FEMALE / FEMALE COUPLER

M23 RJ45 CONNECTORS

HOUSINGS

Single Hole Panel Connector - Front Mount



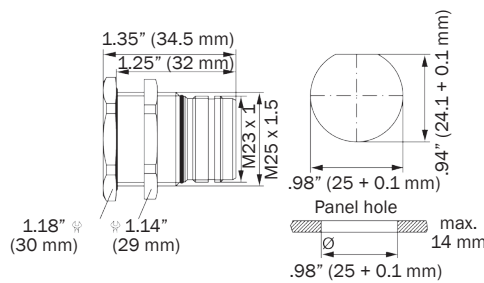
Type Part Number

Front Mount
M20 x 1.5 threadS7.R42.008.000
Incl. 8 poles coupler, fully occupied

Optional: Gasket M20 x 1.5, Locking Nut

FEMALE / FEMALE COUPLER

Single Hole Panel Connector - Rear Mount



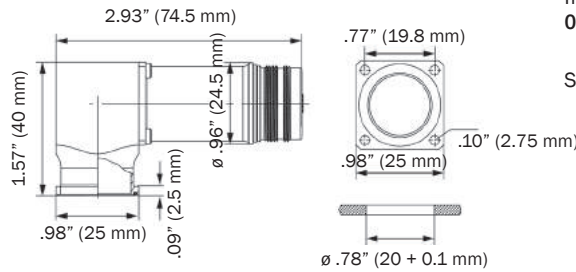
Type Part Number

Rear Mount
M25 x 1.5 threadS7.R50.008.000
Incl. 8 poles coupler, fully occupied

M25 x 1.5 Locking Nut included.

FEMALE / FEMALE COUPLER

Right Angle Panel Connector, Male Thread, flange -



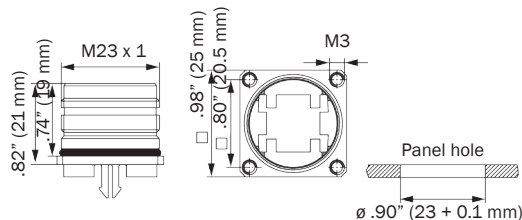
Type Part Number

300° rotatable, locking screw at flange
4 holes 2.7 mm, Flange.....S7.R43.108.000
Incl. 8 poles coupler, fully occupied
Optional: Flat gasket....TAD1-7P2510

Simple installation with M2.5 screws

FEMALE / FEMALE COUPLER

Panel Connector with strain relief - Rear Mount - Dip Solder Insert



Type Part Number

with vibration protection
4 x M3 thread, FlangeS7.R45.008.000
Incl. 8 poles dip solder insert

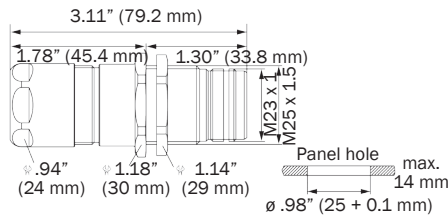
4 x M3 thread, FlangeS7.R45.082.000
Incl. 8 + 2 poles dip solder insert

*Upon Request

M23 RJ45 CONNECTORS

HOUSINGS, ACCESSORIES

Panel Connector with strain relief - Rear Mount

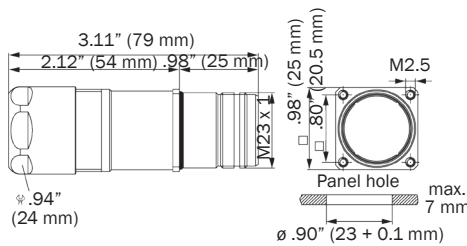


Cable-Ø Part Number

Single Hole, Rear Mount, M25 x 1.5 thread
3 - 7 mm (.12 - .28").....S7.R52.408.000

Incl. 8 poles coupler, fully occupied
M25 x 1.5 Locking Nut included

Panel Connector, Front Mount



Cable-Ø Part Number

4 x M2.5 thread, Flange, Rear Mount
3 - 7 mm (.12 - .28").....S7.R47.408.000
Incl. 8 poles coupler, fully occupied



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 thread.....S7.010.900.102



Adaptor flange
for Straight Connectors...S7.010.900.128



Suitable patch cable.....on request



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



Field attachable RJ45 Yamaichi Plug
8-pole.....CAT 5.....SA7RJ-081M41
8-pole.....CAT 6a.....SA7RJ-081M6A
8+2-pole.....(PICTURED).....SA7RJ-821M51



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



Screw Tool, adjustable 0.5 - 1.7 NmS7.010.900.190



760

15,4
10,3

27
102

Programmiel Satisfisio

1	0,000	0,000
2	0,000	0,000
3	0,000	0,000
4	0,000	0,000
5	0,000	0,000
6	0,000	0,000
7	0,000	0,000
8	0,000	0,000
9	0,000	0,000
10	0,000	0,000
11	0,000	0,000
12	0,000	0,000
13	0,000	0,000
14	0,000	0,000
15	0,000	0,000
16	0,000	0,000
17	0,000	0,000
18	0,000	0,000
19	0,000	0,000
20	0,000	0,000
21	0,000	0,000
22	0,000	0,000
23	0,000	0,000
24	0,000	0,000
25	0,000	0,000
26	0,000	0,000
27	0,000	0,000
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29	0,000	0,000
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33	0,000	0,000
34	0,000	0,000
35	0,000	0,000
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38	0,000	0,000
39	0,000	0,000
40	0,000	0,000
41	0,000	0,000
42	0,000	0,000
43	0,000	0,000
44	0,000	0,000
45	0,000	0,000
46	0,000	0,000
47	0,000	0,000
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49	0,000	0,000
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53	0,000	0,000
54	0,000	0,000
55	0,000	0,000
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58	0,000	0,000
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62	0,000	0,000
63	0,000	0,000
64	0,000	0,000
65	0,000	0,000
66	0,000	0,000
67	0,000	0,000
68	0,000	0,000
69	0,000	0,000
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82	0,000	0,000
83	0,000	0,000
84	0,000	0,000
85	0,000	0,000
86	0,000	0,000
87	0,000	0,000
88	0,000	0,000
89	0,000	0,000
90	0,000	0,000
91	0,000	0,000
92	0,000	0,000
93	0,000	0,000
94	0,000	0,000
95	0,000	0,000
96	0,000	0,000
97	0,000	0,000
98	0,000	0,000
99	0,000	0,000
100	0,000	0,000

1 2 3 4 5 6 7 8 9 0

11 12 13 14 15 16 17 18 19 20

21 22 23 24 25 26 27 28 29 30

31 32 33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48 49 50

51 52 53 54 55 56 57 58 59 60

61 62 63 64 65 66 67 68 69 70

71 72 73 74 75 76 77 78 79 80

81 82 83 84 85 86 87 88 89 90

91 92 93 94 95 96 97 98 99 100

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	Buena-N standard Optional FKM
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 screw lock, Twilock 1/4 turn system, and Twilock-S which mates to Speedtec® by Intercontec / Tyco.



Electrical Data	6		7		9 (8 + 1)		12	16	17	19 (16 + 3)	
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	

Components Needed For A Complete M23 Signal Connector:

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

Connection System Types

THREADED TWILOCK 1/4 Turn TWILOCK-S*



*Intermateable with Speedtec

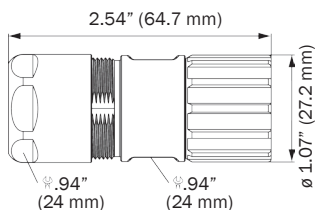
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M23 SIGNAL CONNECTORS

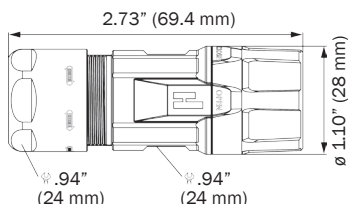
HOUSINGS

Straight Connector, 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

Straight Connector, Female Thread TWILOCK / TWILOCK-S* - Quick Connect

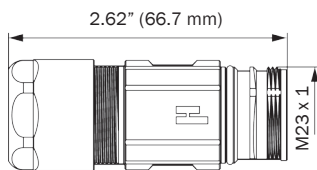


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	S7.166.400.000
7 - 12 mm (.24 - .47")	S7.166.500.000
11 - 17 mm (.43 - .67")	S7.166.600.000

***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

Straight Connector, Male Thread TWILOCK / TWILOCK-S* - Quick Connect



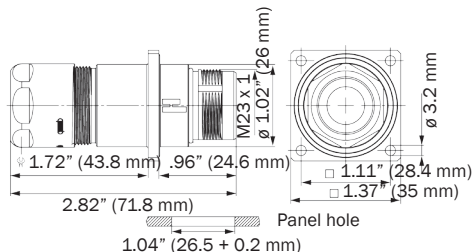
ALSO MATES WITH TWILOCK SYSTEM

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

Panel Connector, Male Thread, with Strain Relief

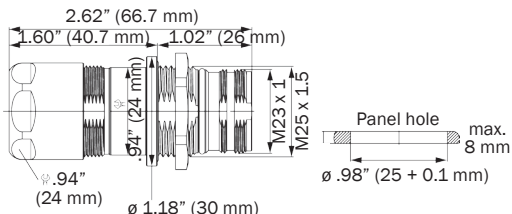


Cable-Ø	Part Number
4 threads M3, rear mounting	
3 - 7 mm (.12 - .28")	S7.476.400.000
7 - 12 mm (.28 - .47")	S7.476.500.000
11 - 17 mm (.44 - .67")	S7.476.600.000

Optional: Flat gasket

ALSO MATES WITH TWILOCK SYSTEM

Panel Connector, Male Thread, with Strain Relief TWILOCK / TWILOCK-S* - Quick Connect



Cable-Ø	Part Number
Rear mounting, M25 x 1.5 single hole mounted	
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

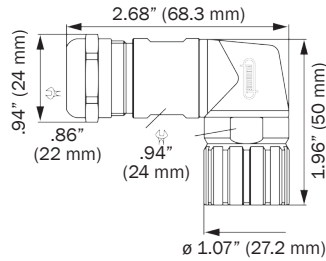
***Intermateable with Speedtec (Twilock-S)**

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

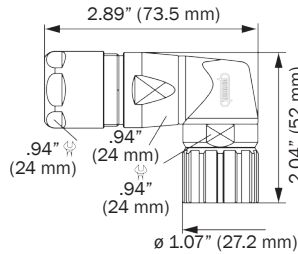
M23 SIGNAL CONNECTORS

HOUSINGS

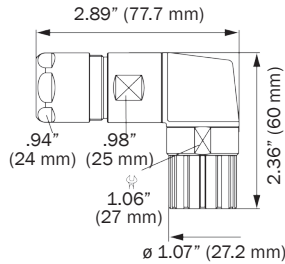
Right Angle Connector, Female Thread with positioning



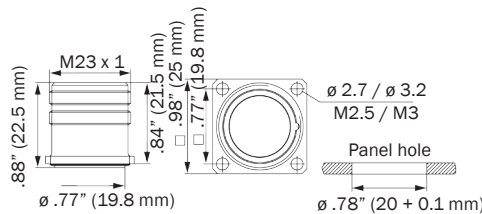
Right Angle Connector, Female Thread, EMC with positioning



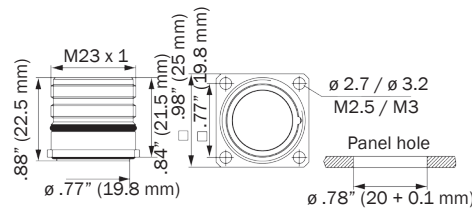
Right Angle Connector, EMC, rotatable



Panel Connector, Male Thread, Front Mounting



Panel Connector, Male Thread, Front Mounting TWILOCK / TWILOCK-S* - Quick Connect



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

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

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

Type	Part Number
4 holes Ø 3.2 mm (.13")	S7.400.000.000 ^{*)}
4 threads M3	S7.402.000.000 ^{*)}
Optional: Flat gasket	...STAD2-7P2510
4 holes Ø 2.7 mm (.11")	S7.404.000.000 ^{*)}
4 threads M2.5	S7.406.000.000 ^{*)}
Optional: Flat gasket	...STAD1-7P2510

Type	Part Number
With anti-vibration O-Ring	
4 holes Ø 3.2 mm (.13")	S7.410.000.000
4 threads M3	S7.412.000.000 ^{*)}
Optional: Flat gasket	...STAD2-7P2510
4 holes Ø 2.7 mm (.11")	S7.414.000.000
4 threads M2.5	S7.416.000.000 ^{*)}
Optional: Flat gasket	...STA12-7P2510

*Intermateable with Speedtec (Twilock-S)
 4 x holes 3.2 mm, Flange 25 x 25S7.410.000.00S
 Optional: Flat gasket....STAD2-7P2510

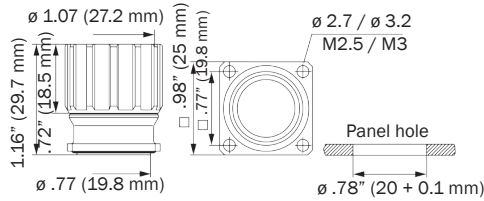
4 x holes 3.2 mm, Flange 28 x 28S7.410.100.00S

^{*)} No compatibility with TWILOCK

M23 SIGNAL CONNECTORS

HOUSINGS

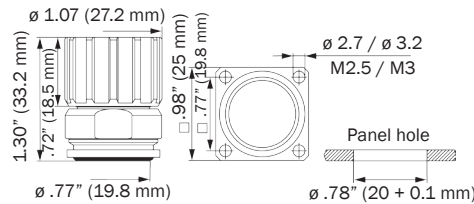
Panel Connector, Female Thread, with knurled Nut



Type Part Number

- Without coding option**
 4 holes Ø 3.2 mm (.13").....S7.440.000.000
 Optional: Flat gasket....STAD2-7P2510
- 4 holes Ø 2.7 mm (.11").....S7.444.000.000
 Optional: Flat gasket....STAD1-7P2510

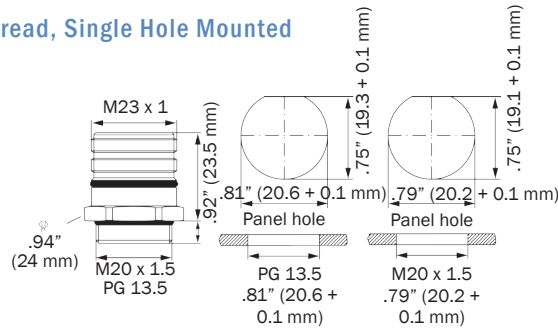
Panel Connector, Female Thread, with knurled Nut, positionable



Type Part Number

- With coding option (8 x 45°)**
 4 holes Ø 3.2 mm (.13").....S7.448.000.000
 Optional: Flat gasket....STAD2-7P2510
- 4 holes Ø 2.7 mm (.11").....S7.449.000.000
 Optional: Flat gasket....STAD1-7P2510

Panel Connector, Male Thread, Single Hole Mounted

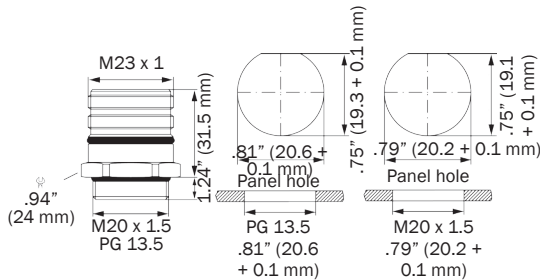


Type Part Number

- Front mounting for male inserts**
 Thread M20 x 1.5.....S7.420.000.000*)
 Thread PG 13.5S7.422.000.000*)
- Optional: Flat gasket, jam nut M20 x 1.5 / PG 13.5

*** FOR MALE *
 INSERTS ONLY**

Panel Connector, Male Thread, Single Hole Mounted

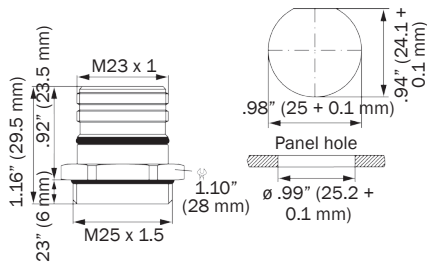


Type Part Number

- Front mounting for female inserts**
 Thread M20 x 1.5.....S7.421.000.000*)
 Thread PG 13.5S7.423.000.000*)
- Optional: Flat gasket, jam nut M20 x 1.5 / PG 13.5

*** FOR FEMALE *
 INSERTS ONLY**

Panel Connector, Male Thread, Single Hole Mounted



Type Part Number

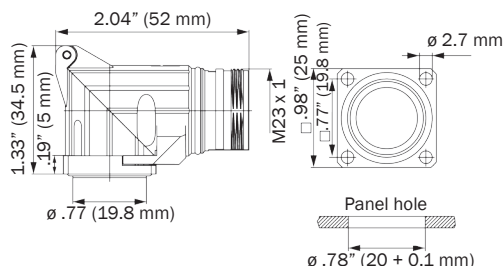
- For insert with pins / sockets**
 Thread M25 x 1.5.....S7.425.000.000*)
- Optional: Flat gasket, jam nut M25 x 1.5

*) No compatibility with TWILOCK

M23 SIGNAL CONNECTORS

HOUSINGS

Right Angle Panel Connector, Male Thread, flange

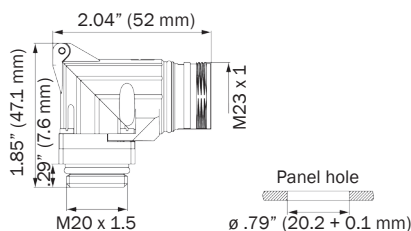


Type Part Number
 4 holes 2.7 mm (.11")S7.435.000.000
 Optional: Flat gasket....STAD1-7P2510

Easy attachment with M2.5 screws

***ALSO MATES WITH
 TWILOCK SYSTEM***

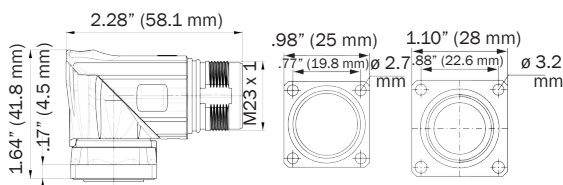
Right Angle Panel Connector, Male Thread, rotatable



Type Part Number
 335° rotatable, hole mounted
 Thread M20 x 1.5.....S7.431.000.000

***ALSO MATES WITH
 TWILOCK SYSTEM***

Right Angle Panel Connector, Male Thread, rotatable, flange TWILOCK / TWILOCK-S



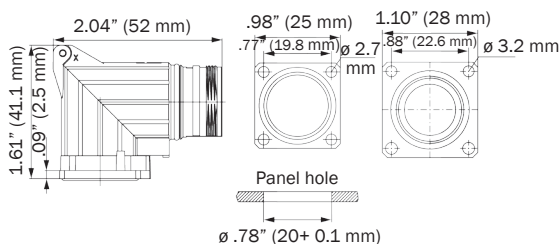
Type Part Number
 330° rotatable, 1.5 mm locking screw at flange
 4 x holes Ø 2.7 mm, Flange 25 x 25 mm..S7.439.000.000
 Optional: Flat gasket....STAD1-7P2510

4 x holes Ø 3.2 mm, Flange 28 x 28 mm..S7.439.100.000

***Intermatable with Speedtec (Twilock-S)**
 4 x holes Ø 2.7 mm, Flange 25 x 25 mm..S7.439.000.00S
 Optional: Flat gasket....STAD1-7P2510

4 x holes Ø 3.2 mm, Flange 28 x 28 mm..S7.439.100.00S

Right Angle Panel Connector, Male Thread, rotatable, flange

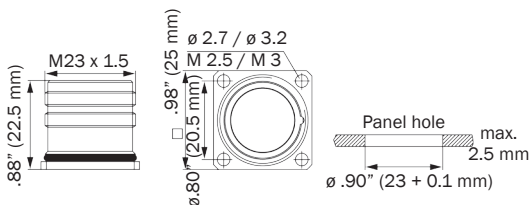


Type Part Number
 300° rotatable, 1.5 mm locking screw at flange
 4 x holes Ø 2.7 mmS7.433.000.000
 Flange 25 x 25 mm
 Optional: Flat gasket....STAD1-7P2510

4 x holes Ø 3.2 mm.....S7.433.100.000
 Flange 28 x 28 mm

***ALSO MATES WITH
 TWILOCK SYSTEM***

Panel Connector, Male Thread, Rear Mounting



Type Part Number
 4 holes Ø 3.2 mm (.13").....S7.450.000.000*)
 4 threads M3.....S7.452.000.000*)
 Optional: Flat gasket....STAD4-7P2510

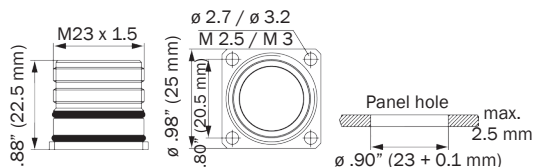
4 holes Ø 2.7 mm (.11").....S7.454.000.000*)
 4 threads M2.5S7.456.000.000*)
 Optional: Flat gasket....STAD3-7P2510

*) No compatibility with TWILOCK

M23 SIGNAL CONNECTORS

HOUSINGS

Panel Connector, Male Thread, Rear Mounting TWILOCK / TWILOCK-S* - Quick Connect

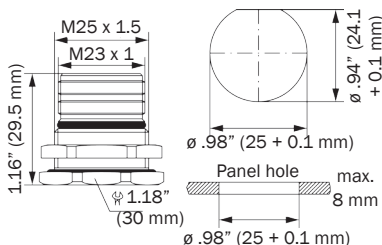


Type	Part Number
With anti-vibration O-Ring	
4 holes \varnothing 3.2 mm (.13")	S7.460.000.000
4 threads M3	S7.462.000.000
Optional: Flat gasket....STAD4-7P2510	

4 holes \varnothing 2.7 mm (.11")	S7.464.000.000
4 threads M2.5	S7.466.000.000
Optional: Flat gasket....STAD3-7P2510	

*Intermateable with Speedtec (Twilock-S)	
4 threads M3	S7.462.000.00S
Optional: Flat gasket....STAD4-7P2510	

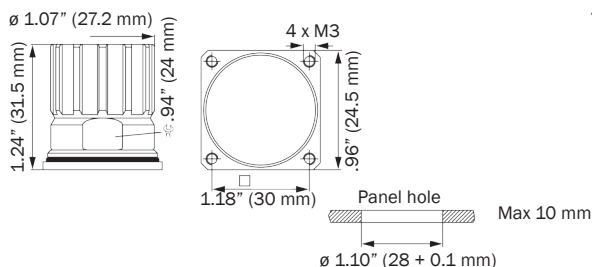
Panel Connector, Male Thread, Single Hole Mounted TWILOCK / TWILOCK-S* - Quick Connect



Type	Part Number
Rear mounting	
Thread M25 x 1.5	S7.458.000.000*)

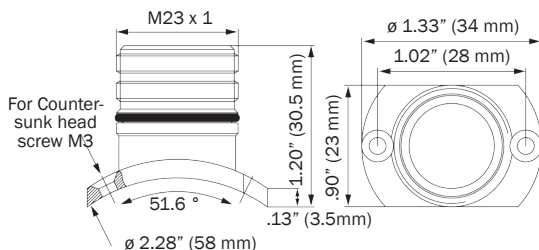
*Intermateable with Speedtec (Twilock-S)	
Thread M25 x 1.5	S7.458.000.00S
Including jam nut M25 x 1.5	

Panel Connector, Female Thread, Rear Mounting



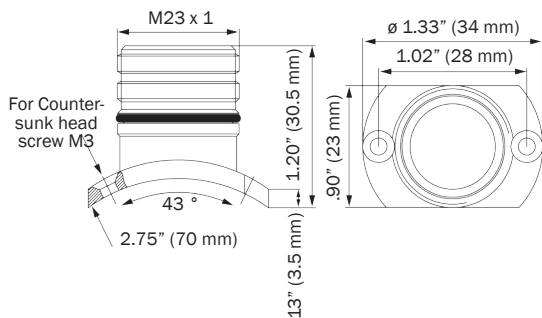
Type	Part Number
With knurled nut, rear mounting	
4 threads M3	S7.459.000.000

Panel Connector with Radius Flange



Type	Part Number
With anti-vibration O-Ring and flat body gasket	
\varnothing 58 mm (2.28")	S7.490.000.000*)

Panel Connector with Radius Flange



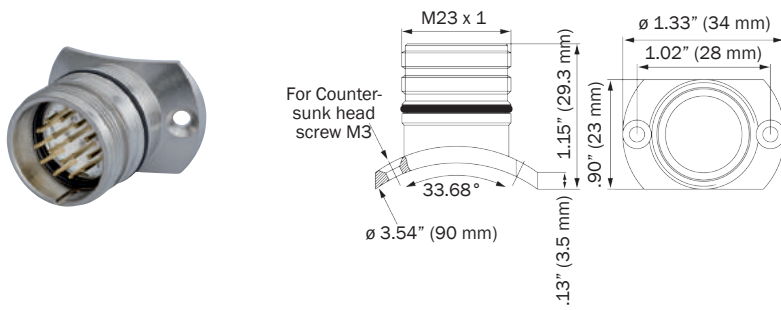
Type	Part Number
With anti-vibration O-Ring and flat body gasket	
\varnothing 70 mm (2.76")	S7.491.000.000*)

*) No compatibility with TWILOCK

M23 SIGNAL CONNECTORS

HOUSINGS, ACCESSORIES

Panel Connector with Radius Flange



Type	Part Number
With anti-vibration O-Ring and flat body gasket	
Ø 90 mm (3.54")	S7.492.000.000 ^{*)}



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.....S7.010.9S0.703^{*)}
Length 100 mm.....S7.010.9S1.003^{*)}



Brass protective cap for connectors with female threadS7.010.900.103^{*)}



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 thread.....S7.010.900.102



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



Screw Tool, adjustable 0.5 - 1.7 NmS7.010.900.190



Adaptor flange for Straight Connectors..S7.010.900.128^{*)}



Crimp tool for manual crimping of machined crimp contacts for signal connectorsS7.000.900.904



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



Positioner for Crimp Tool DMC M22520S7.000.900.DMC



Assembly toolS7.010.900.101

Locator for Crimp Tool DMC M22520 with positionerS7.000.9DM.C03
For Sealcon Contact:
S7.010.901.001, S7.010.901.501,
S7.010.902.001, S7.010.901.031



Bus End ConnectorS7105.000.000



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

^{*)} No compatibility with TWILOCK

M23 SIGNAL CONNECTORS

INSERTS

Inserts 6-pole	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
	<p>The correct dimension of a connector with dip solder contacts depends on the particular type of housing.</p> <p>Coding possibilities N, S, H, X, Y and Z</p>		

Inserts 7-pole	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
	<p>The correct dimension of a connector with dip solder contacts depends on the particular type of housing.</p> <p>Coding possibilities N, S, H, X and Y</p>		

Inserts 9-pole (8 + 1)	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
	<p>The correct dimension of a connector with dip solder contacts depends on the particular type of housing.</p> <p>Coding possibilities N, S, H, X and Y</p>		

M23 SIGNAL CONNECTORS

INSERTS

Inserts 9-pole (8 + 1)	Type	Part Number	Part Number	
	Pinout clockwise	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

Coding possibilities N, S, H, X, and Y

Inserts 12-pole	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 +PE (Pos.9)	S7.001.912.113	S7.001.912.114
	Insert without contacts	S7.003.912.101	S7.003.912.102
	Insert without contacts +PE (Pos.9)	S7.003.912.111	S7.003.912.112
	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 mm	S7.001.912.137	S7.001.912.118

Coding possibilities N, S, H, X, Y and Z

*Clockwise Layout

Inserts 12-pole	Type	Part Number	Part Number
	Pinout clockwise	Pins	Sockets
	Insert with solder contacts	S7.002.912.103	S7.002.912.104
	Insert with solder contacts +PE (Pos.9)	S7.002.912.113	S7.002.912.114
	Insert without contacts	S7.004.912.101	S7.004.912.102
	Insert without contacts +PE (Pos.9)	S7.004.912.111	S7.004.912.112
	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

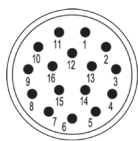
Coding possibilities N, S, H, X, Y and Z

*Counter Clockwise Layout

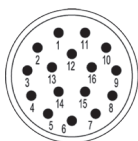
M23 SIGNAL CONNECTORS

INSERTS

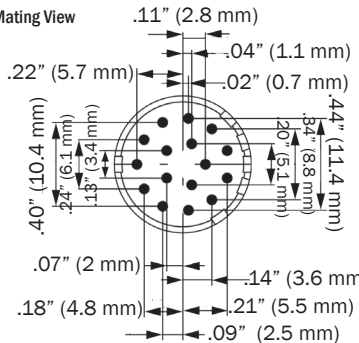
Inserts 16-pole



Insert Pin Mating View

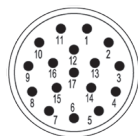


Insert Socket Mating View

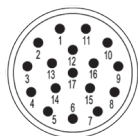


Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.916.103.....	S7.001.916.104
Insert without contacts.....	S7.003.916.101.....	S7.003.916.102
Insert with dip solder contacts		
Length 3.5 mm.....	S7.001.916.107	
Insert with dip solder contacts		
Length 10 mm.....	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 (see page 81)		

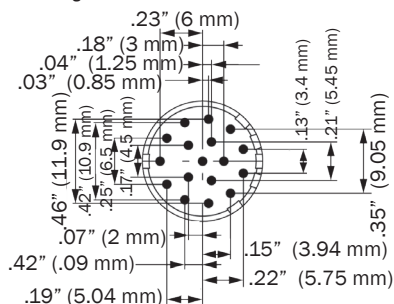
Inserts 17-pole



Insert Pin Mating View

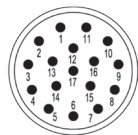


Insert Socket Mating View

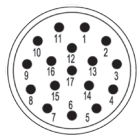


Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts	S7.001.917.103.....	S7.001.917.104
Insert without contacts.....	S7.003.917.101.....	S7.003.917.102
Insert with dip solder contacts		
Length 3.5 mm.....	S7.001.917.107	
Insert with dip solder contacts		
Length 10 mm.....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

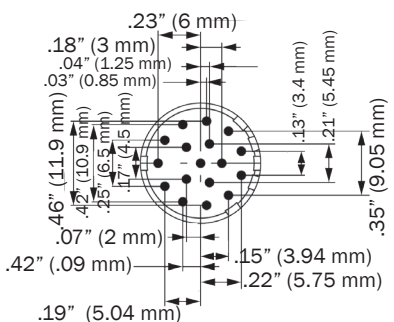
Inserts 17-pole



Insert Pin Mating View



Insert Socket Mating View



Type	Part Number	Part Number
Pinout clockwise	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	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 +PE (Pos.12)..S7.001.919.113S7.001.919.114

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 +PE (Pos.12)..S7.003.919.111.....S7.003.919.112

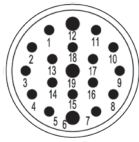
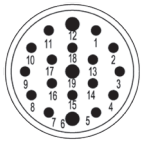
Insert with dip solder contacts
Length 3.5 mm.....S7.001.919.107

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

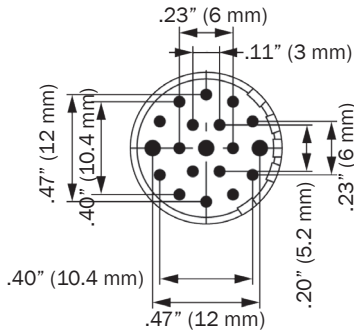
The correct dimension of a connector with dip solder contacts depends on the particular type of housing.

Coding possibilities N, S, H, X and Y



Insert Pin Mating View

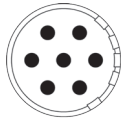
Insert Socket Mating View



Contact Arrangement	Number of Poles	Required Contacts
---------------------	-----------------	-------------------



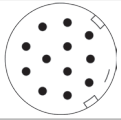
66 x 2 mm



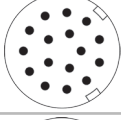
77 x 2 mm



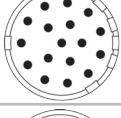
9 (8 + 1)8 x 1 mm
.....1 x 2 mm



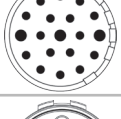
1212 x 1 mm



1616 x 1 mm



1717 x 1 mm



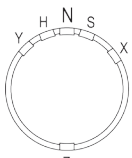
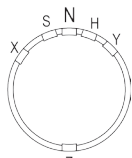
1916 x 1 mm
.....3 x 1.5 mm
















10Housings and contacts 10-pole, see chapter "M23 Power, M23 Hybrid" Page 56

M23 SIGNAL CONNECTORS

INSERTS, CONTACTS

Coding	Number of Poles	Coding Possibilities
 <p>Female Inserts Mating View</p>	6-pole.....	N, S, H, X, Y and Z
	7-pole	N, S, H, X and Y
 <p>Male Inserts Mating View</p>	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.

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).....	7.010.901.001
	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 MANY OPTIONS

The M23 Power connector is diverse with many pin-out configurations and housing styles. Connection styles include screw lock, Twilock 1/4 turn system, and Twilock-S which mates to Speedtec® by Intercontec / Tyco. Available in 6, 8, 9, 10 or 12 pole inserts with power transmission up to 28 Amps.



*Hybrid Insert available on page 56. Insert fits standard M23 Power shell

Mechanical Data	Materials and Technical Data
Housing	Copper-Zinc alloy, Die Cast
Housing surface	Nickel plated Other surface upon request
Inserts	Thermoplastic Polyamid 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*
Seals / O-Rings	Buna-N standard, optional FKM
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	.28 - .67" (7 - 17 mm)

* Sealcon to Sealcon connector

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	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
AWG [mm ²]	(18 - 12) 0.75 - 4	(26 - 17) 0.14 - 1	(28 - 22) 0.08 - 0.34
Nominal current [A]	28	8	2
Nominal voltage [V~] degree of protection	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		

Connection System Types

THREADED TWILOCK 1/4 Turn TWILOCK-S*



*Intermateable with Speedtec

See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

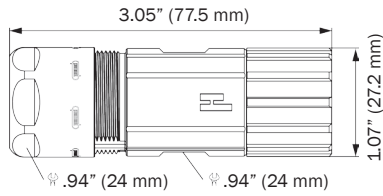
Components Needed For A Complete M23 Power Connector:

- HOUSING (pg 51 - 54)
- INSERT (pg 56)
- CONTACTS (pg 56)

M23 POWER, M23 HYBRID CONNECTORS

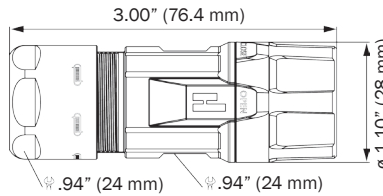
HOUSINGS

Straight Connector, Female Thread



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

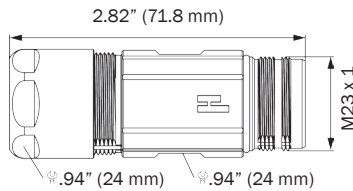
Straight Connector, Female Thread TWILOCK / TWILOCK-S * - Quick Connect



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

Straight Connector, Male Thread TWILOCK / TWILOCK-S * - Quick Connect

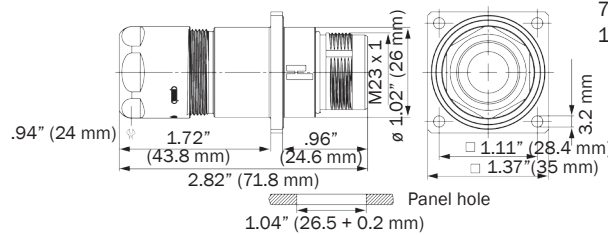


Cable-Ø	Part Number
7 - 12 mm (.27 - .47")	S7.560.500.000
11 - 17 mm (.43 - .67")	S7.560.600.000

***Intermateable with Speedtec (Twilock-S)**
 7 - 12 mm (.24 - .47").....S7.566.500.00S
 11 - 17 mm (.43 - .67").....S7.566.600.00S

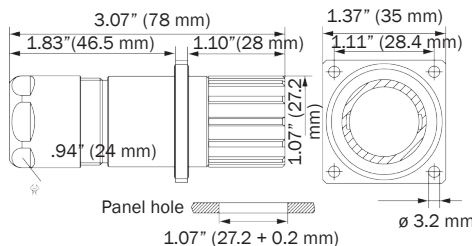
ALSO MATES WITH TWILOCK SYSTEM

Panel Connector, Male Thread, with Strain Relief



Cable-Ø	Part Number
4 holes Ø 3.2 mm (.13"), front or rear mounting	
7 - 12 mm (.27 - .47")	S7.683.500.000
11 - 17 mm (.43 - .67")	S7.683.600.000

Panel Connector, Female Thread, with Strain Relief

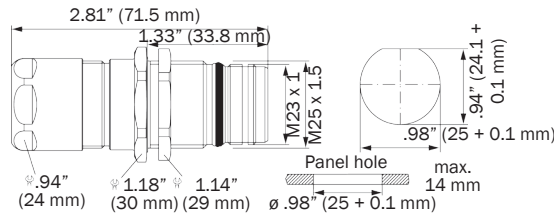


Cable-Ø	Part Number
4 holes Ø 3.2 mm (.13"), front or rear mounting	
7 - 12 mm (.27 - .47")	S7.681.500.000
11 - 17 mm (.43 - .67")	S7.681.600.000

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

Panel Connector, Male Thread, with Strain Relief, TWILOCK / TWILOCK-S



Cable-Ø Part Number

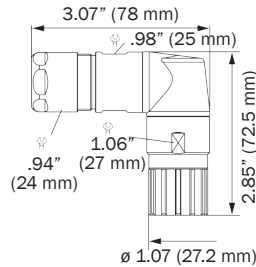
Single hole mounted, rear mounting, thread M25 x 1.5
 7 - 12 mm (.27 - .47").....S7.653.500.000
 11 - 17 mm (.43 - .67").....S7.653.600.000

***Intermateable with Speedtec (Twilock-S)**
 7 - 12 mm (.24 - .47").....S7.653.500.00S
 11 - 17 mm (.43 - .67").....S7.653.600.00S

Including jam nut M25 x 1.5

M23 Power

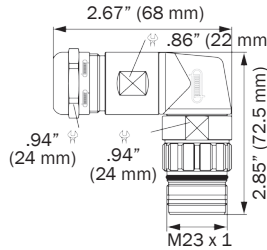
Right Angle Connector, Female Thread, rotatable



Cable-Ø Part Number

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

Right Angle Connector, Male Thread, rotatable

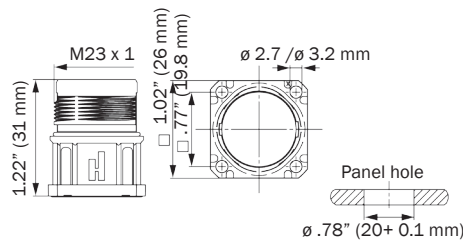


Cable-Ø Part Number

7 - 12 mm (.27 - .47").....S7.580.500.000
 10 - 14 mm (.39 - .55").....S7.580.600.000

***No Compatibility with Twilock**

Panel Connectors, Male Thread, Front Mounting TWILOCK / TWILOCK-S * - Quick Connect

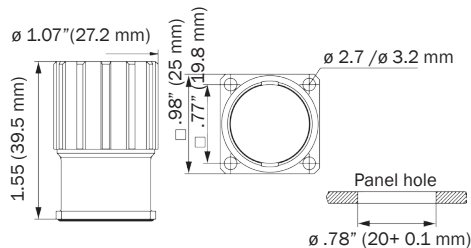


Cable-Ø Part Number

4 holes Ø 3.2 mm (.13").....S7.601.000.000
 4 holes Ø 2.7 mm (.11").....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

Panel Connector with knurled Nut, Front Mounting



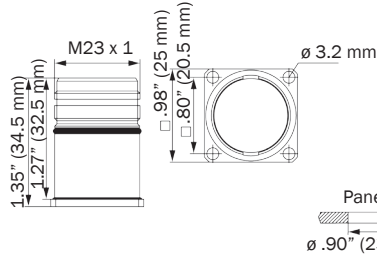
Cable-Ø Part Number

4 holes Ø 3.2 mm (.13").....S7.641.000.000
Optional: Flat gasket....STAD2-7P2510
 4 holes Ø 2.7 mm (.11").....S7.645.000.000
Optional: Flat gasket....STAD1-7P2510

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

Panel Connector, Male Thread, Rear Mounting



Cable-Ø

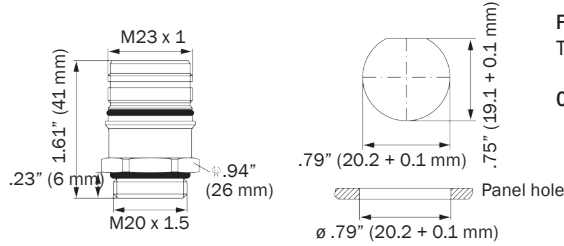
Part Number

With anti-vibration O-Ring

4 holes Ø 3.2 mm (.13").....S7.661.000.000^{*)}

ALSO MATES WITH TWILOCK SYSTEM

Panel Connector, Male Thread, Single Hole Mounted M20



Cable-Ø

Part Number

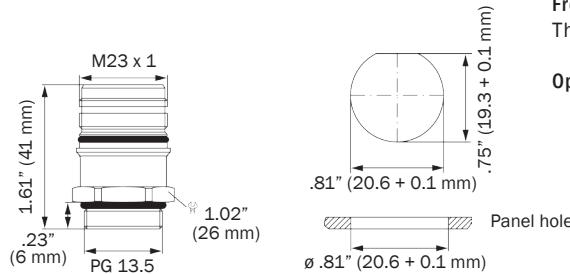
Front mounting

Thread M20 x 1.5.....S7.621.000.000^{*)}

Options: Flat gasket, jam nut M20 x 1.5

^{*)} No compatibility with TWILOCK

Panel Connector, Male Thread, Single Hole Mounted PG 13



Cable-Ø

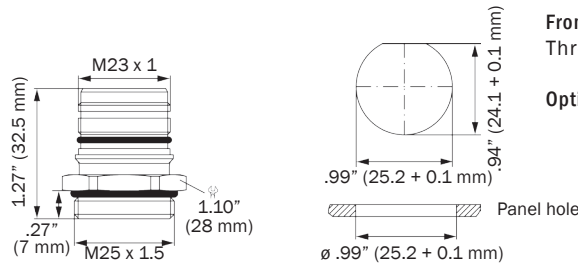
Part Number

Front mounting

Thread PG 13.5S7.623.000.000^{*)}

Options: Flat gasket, jam nut PG 13.5

Panel Connector, Male Thread, Single Hole Mounted M25



Cable-Ø

Part Number

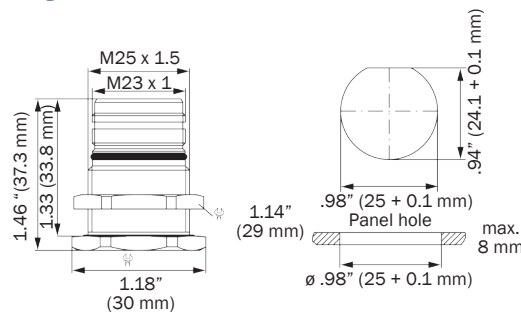
Front mounting

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

Options: Flat gasket, jam nut M 25 x 1.5

ALSO MATES WITH TWILOCK SYSTEM

Panel Connector, Male Thread, Single Hole Mounted



Cable-Ø

Part Number

Rear mounting

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

Including jam nut M25 x 1.5

ALSO MATES WITH TWILOCK SYSTEM

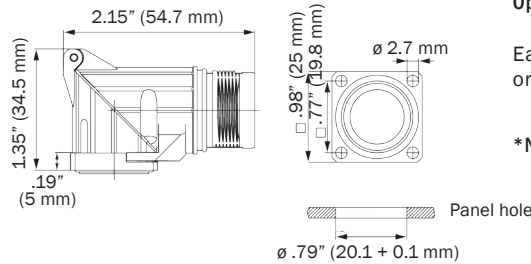
^{*)} No compatibility with TWILOCK

M23 POWER, M23 HYBRID CONNECTORS

HOUSINGS

M23 Power

Right Angle Panel Connector, Male Thread, flange

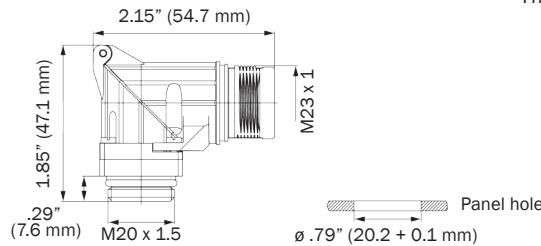


Cable-Ø	Part Number
4 holes Ø 2.7 mm (.11").....	S7.635.000.000
Optional: Flat gasket....	STAD1-7P2510

Easy fastening with M2.5 x 10 mm
or 4 x .39" long screws

***No Compatibility with Twilock**

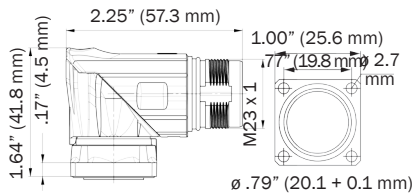
Right Angle Panel Connector, Male Thread, rotatable



Cable-Ø	Part Number
335° rotatable, single hole mounted Thread M20 x 1.5.....	S7.636.000.000

***ALSO MATES WITH
TWILOCK SYSTEM***

Right Angle Panel Connector, Male Thread, rotatable, flange, TWILOCK, TWILOCK-S



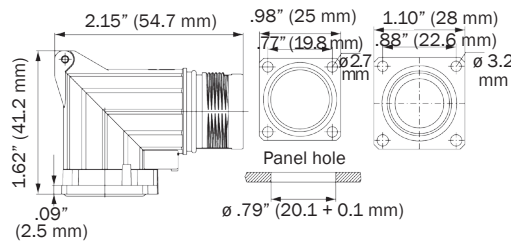
Cable-Ø	Part Number
330° rotatable, 1.5 mm locking screw at flange 4 x holes Ø 3.2 mm, Flange 25 x 25 mm.....	S7.639.000.000
Optional: Flat gasket....	STAD1-7P2510

4 x holes Ø 3.2 mm, Flange 28 x 28 mm.....	S7.639.100.000
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*** Compatible with Speedtec (Twilock-S)**
4 x holes Ø 3.2 mm,
Flange 25 x 25 mm.....S7.639.000.00S
Optional: Flat gasket....STAD1-7P2510

4 x holes Ø 3.2 mm, Flange 28 x 28 mm.....	S7.639.100.00S
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Right Angle Panel Connector, Male Thread, rotatable, flange



Cable-Ø	Part Number
300° rotatable, locking screw at flange 4 x holes Ø 2.7 mm (.11").....	S7.638.000.000
Flange 25 x 25 mm Optional: Flat gasket....	STAD1-7P2510

4 x holes Ø 3.2 mm (.13").....	S7.638.100.000
Flange 28 x 28 mm	

***ALSO MATES WITH
TWILOCK SYSTEM***

M23 POWER, M23 HYBRID CONNECTORS

ACCESSORIES

M23 Power



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 thread.....S7.010.900.102



Crimp tool for manual crimping of machined crimp contacts
Works with contacts for power or signalS7.000.900.901



Adaptor flange for Straight Connectors..S7.010.900.128*)



Positioner for Crimp Tool DMC M22520S7.000.900.DMC



Conduit adaptor
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



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 positioner.....S7.000.9DM.C07
For Sealcon Contact:
S7.010.941.002, S7.010.942.002,
S7.010.942.012,









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











*) No compatibility with TWILOCK

M23 POWER, M23 HYBRID CONNECTORS

INSERTS, CONTACTS

M23 Power

Contact Arrangement, Mating View		Number of Poles	Required Contacts
	6 - pole	SNAP-IN SOLUTION 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	SNAP-IN SOLUTION 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 *Fits Any M23 Connector Shell	

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 0.6 mm, 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 versions. The design of this connector allows it to be IP67 / IP 69K with an operating temperature of up to 257 °F. Available in male and female thread connectors as well as panel 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
Seals / O-Rings	Buna-N standard, optional FKM
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)

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

Components Needed For A Complete M27 Signal Connector:

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

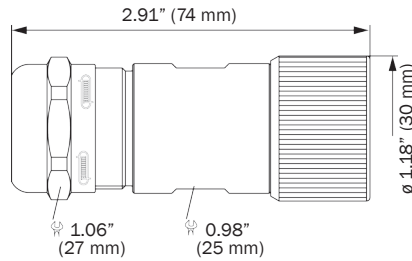
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M27 SIGNAL CONNECTORS

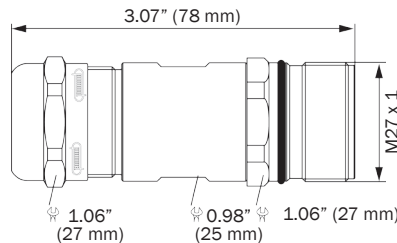
HOUSINGS, ACCESSORIES

Straight Connector, Female Thread



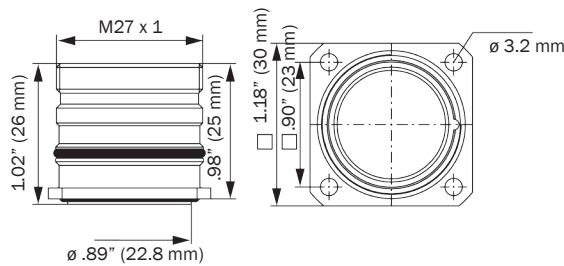
Cable-Ø	Part Number
7 - 12 mm (.28 - .47")	S7.110.500.000
11 - 17 mm (.43 - .67")	S7.110.600.000

Straight Connector, Male Thread

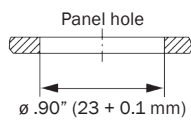


Cable-Ø	Part Number
7 - 12 mm (.28 - .47")	S7.210.500.000
11 - 17 mm (.43 - .67")	S7.210.600.000

Panel Connector, Male Thread, front mounting



Type	Part Number
4 x holes 3.2 mm	S7.410.700.000



Plastic protective cap for connectors
with male thread.....S7.000.980.167
with female thread.....S7.000.980.168



Brass protective cap for connectors with
female thread.....S7.010.900.169



Brass protective cap for connectors with
male thread.....S7.010.900.170



Assembly Tool.....S7.010.900.110



Brass protective cap with chain for
connectors with female thread
Length 70 mm.....S7.010.9S0.707



Brass protective cap with chain
for connectors with male thread
Length 70 mm.....S7.010.9S0.708

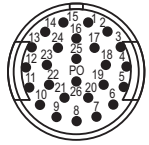


Crimp tool for manual crimping of machined
crimp contacts
Works with contacts for power or signal
.....S7.000.900.901 / 904

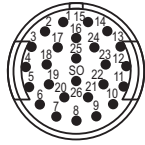
M27 SIGNAL CONNECTORS

INSERTS, PINS

Inserts 26-pole



Insert Pin Mating View



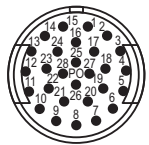
Insert Socket Mating View

Type	Part Number	Part Number
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.....

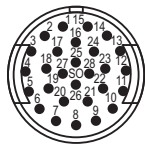
Insert with dip solder contacts
Length 10 mm.....S7.001.926.127

The correct dimension of a connector with dip solder contacts depends on the particular type of housing.

Inserts 28-pole



Insert Pin Mating View



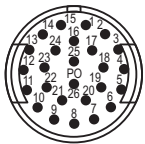
Insert Socket Mating View

Type	Part Number	Part Number
Pinout clockwise	Pins	Sockets
Insert with solder contacts.....	S7.001.928.103.....	S7.001.928.104.....

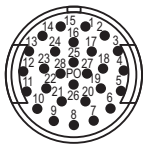
Contact Arrangement

Number of Poles

Required Contacts



26.....26 x 1 mm



28.....28 x 1 mm

Contacts

Type

Crimp Range

Part Number



Crimp pin 1 mm, machined0.14 - 0.56 mm² (AWG26 - AWG 17)S7.010.971.001



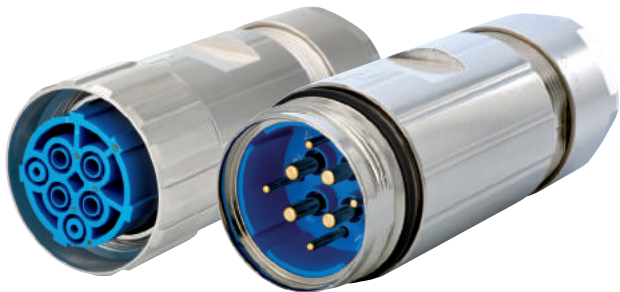
Crimp socket 1 mm, machined0.14 - 0.56 mm² (AWG26 - AWG 17)S7.010.971.002



M40 POWER CONNECTORS

HIGH POWER AND CURRENT

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



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
Seals / O-Rings	Buena-N Standard, Optional FKM
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)

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

Components Needed For A Complete M40 Power Connector:

- HOUSING (pg 63 - 66)
- INSERT Included
- CONTACTS (pg 67)

 Standard delivery of M40 (size 1.5) Power Connector include Contact Insert.

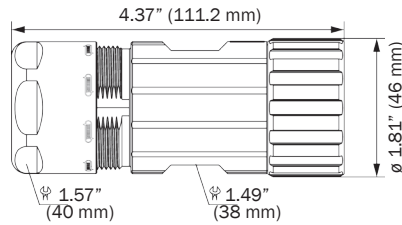
See Technical Information page 78

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

M40 POWER CONNECTORS

HOUSINGS

Straight 6 Position Connector, Female Thread

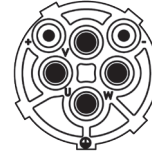


Cable-Ø

Part Number

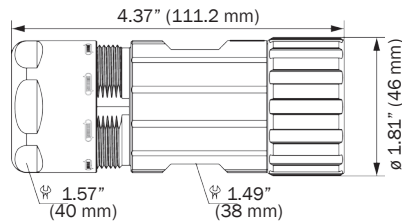
2 + 3 + PE, insert for sockets

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



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Straight 8 Position Connector, Female Thread

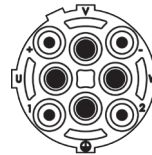


Cable-Ø

Part Number

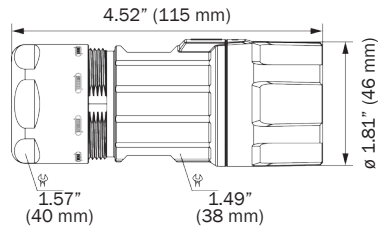
4 + 3 + PE, insert for sockets

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



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Straight 6 Position Connector, Female Thread TWILOCK-S



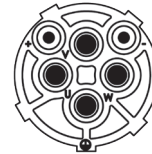
Cable-Ø

Part Number

2 + 3 + PE, insert for sockets

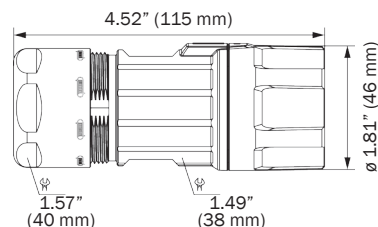
*Intermateable with Speedtec (Twilock-S)

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 ^{*)}



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Straight 8 Position Connector, Female Thread TWILOCK-S



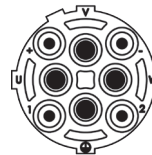
Cable-Ø

Part Number

4 + 3 + PE, insert for sockets

*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 ^{*)}



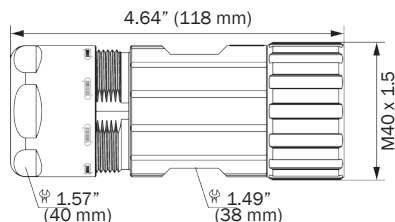
*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

^{*)} Under Development

M40 POWER CONNECTORS

HOUSINGS

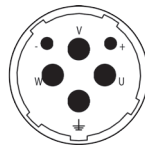
Straight 6 position Connector, Male Thread, Threaded and TWILOCK-S



Cable-Ø Part Number

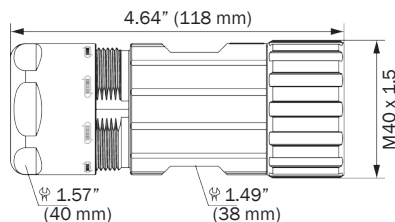
2 + 3 + PE, insert for pins	
13 - 18 mm (.51 - .71")	S7.720.623.000
17 - 24 mm (.67 - .97")	S7.720.723.000
21 - 28 mm (.83 - 1.10")	S7.720.823.000

*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 ^{*)}



***INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY***

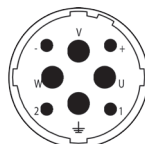
Straight 8 Position Connector, Male Thread, Threaded and TWILOCK-S



Cable-Ø Part Number

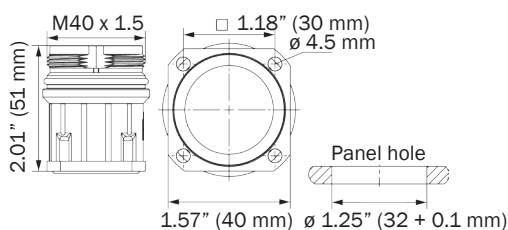
4 + 3 + PE, insert for pins	
13 - 18 mm (.51 - .71")	S7.720.643.000
17 - 24 mm (.67 - .97")	S7.720.743.000
21 - 28 mm (.83 - 1.10")	S7.720.843.000

*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 ^{*)}



***INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY***

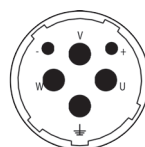
Panel 6 Position Connector, Male Thread, Front Mounting, Threaded and TWILOCK-S



Type Part Number

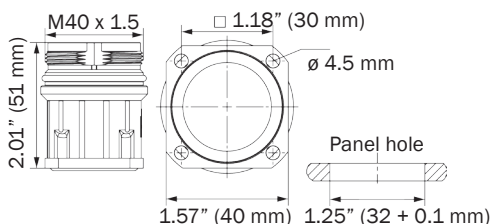
2 + 3 + PE, insert for pins	
4 holes Ø 4.5 mm (.18")	S7.740.023.000

*Intermateable with Speedtec (Twilock-S)	
4 holes Ø 4.5 mm (.18")	S7.740.023.00S ^{*)}



***INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY***

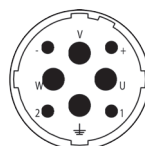
Panel 8 Position Connector, Male Thread, Front Mounting, Threaded and TWILOCK-S



Type Part Number

4 + 3 + PE, insert for pins	
4 holes Ø 4.5 mm (.18")	S7.740.043.000

*Intermateable with Speedtec (Twilock-S)	
4 holes Ø 4.5 mm (.18")	S7.740.043.00S ^{*)}



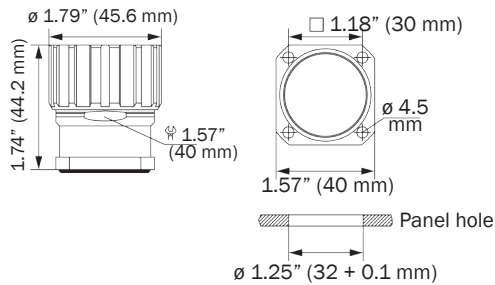
*** INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY***

^{*)} Under Development

M40 POWER CONNECTORS

HOUSINGS

Panel 6 Position Connector with knurled nut, Front Mounting



Type

Part Number

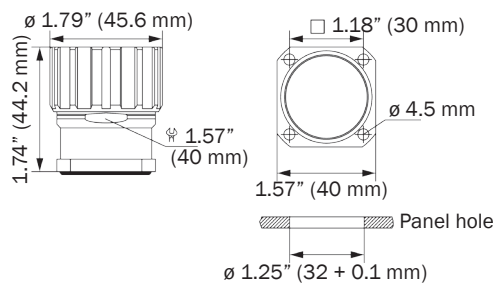
2 + 3 + PE, insert for sockets

4 holes $\phi 4.5$ mm (.18").....S7.744.023.000



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Panel 8 Position Connector with knurled nut, Front Mounting

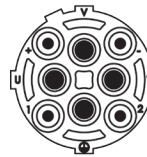


Type

Part Number

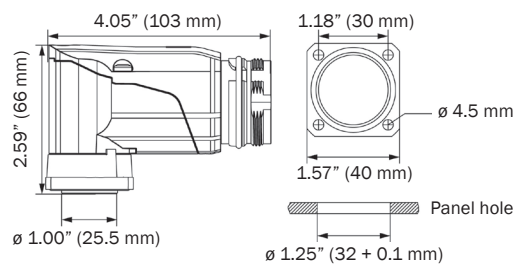
4 + 3 + PE, insert for sockets

4 holes $\phi 4.5$ mm (.18").....S7.744.043.000



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Right Angle Panel 6 Position Connector, Male Thread, rotatable TWILOCK-S



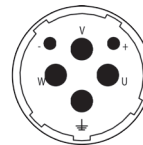
Type

Part Number

2 + 3 + PE, insert for pins

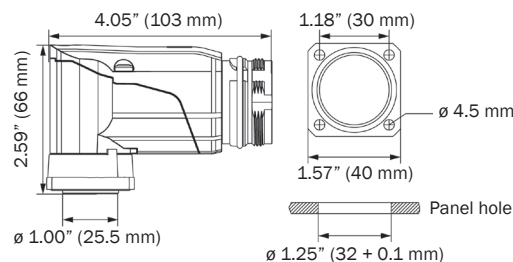
*Intermateable with Speedtec

4 holes $\phi 4.5$ mm (.18").....S7.749.023.00S^{*)}



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Right Angle Panel 8 Panel Connector, Male Thread, rotatable TWILOCK-S



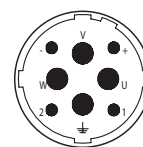
Type

Part Number

4 + 3 + PE, insert for pins

*Intermateable with Speedtec

4 holes $\phi 4.5$ mm (.18").....S7.749.043.00S^{*)}



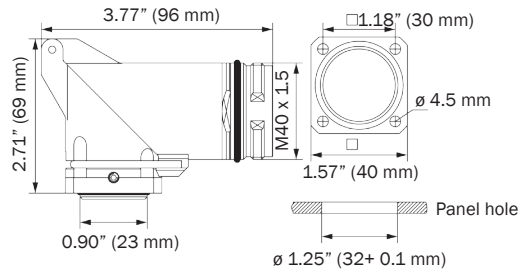
*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

^{*)} Under Development

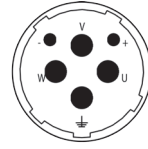
M40 POWER CONNECTORS

HOUSINGS, ACCESSORIES

Right Angle Panel 6 Position Connector, Male Thread, rotatable

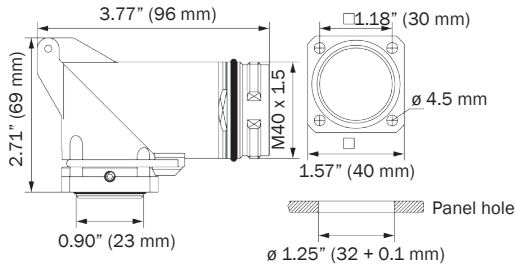


Type	Part Number
2 + 3 + PE, insert for pins	
4 holes Ø 4.5 mm (.18").....	S7.743.023.000

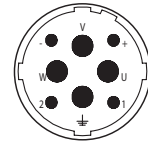


*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Right Angle Panel 8 Panel Connector, Male Thread, rotatable

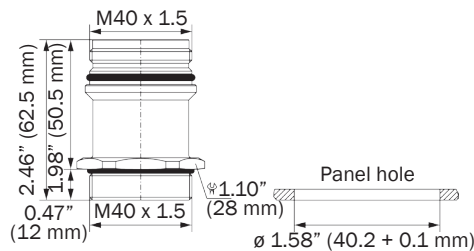


Type	Part Number
4 + 3 + PE, insert for pins	
4 holes Ø 4.5 mm (.18").....	S7.743.043.000

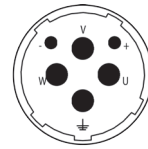


*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Straight 6 Position Front Mount Connector, Female Thread

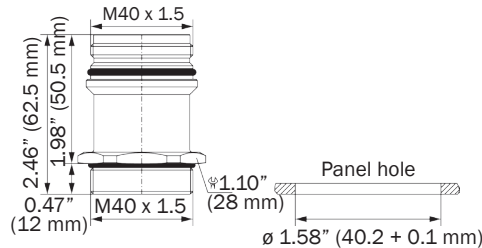


Type	Part Number
Front mounting, 2 + 3 + PE, insert for pins	
Thread M40 x 1.5.....	S7.742.023.000

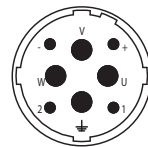


*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

Straight 8 Position Front Mount Connector, Female Thread



Type	Part Number
Front mounting, 4 + 3 + PE, insert for pins	
Thread M40 x 1.5.....	S7.742.043.000



*INSERT INCLUDED
CONTACTS ORDERED
SEPARATELY*

-  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
-  Adaptor flange for Straight Connectors...S7.010.900.129
-  Conduit adaptor Nylon Conduit DN 23.....S7.010.900.215
Nylon Conduit DN 29.....S7.010.900.217



Crimp tool for manual crimping of machined crimp contacts up to 10 mm² (AWG 8) for power connectorsS7.000.900.902



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



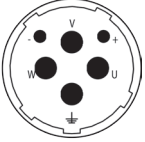

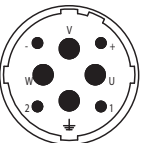

Brass protective cap with rope for connectors with female threadS7.015.9S1.003

















Brass protective cap with rope for connectors with male threadS7.015.9S1.002

M40 POWER CONNECTORS

INSERTS, CONTACTS

Contact Arrangement, Mating View	Number of Poles	Required Contacts
	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

* INSERT INCLUDED, CONTACTS ORDERED SEPARATELY*

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 Socket 2 mm, machined.....	0.25 - 1 mm ² (AWG 24 - 17)	S7.015.952.004*)
	Crimp socket 2 mm, machined.....	0.75 - 4 mm ² (AWG 18 - 12)	S7.015.952.002
	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.....	AWG 8.....	S7.015.953.621
	Crimp pin 3.6 mm, machined.....	10 mm ²	S7.015.953.623
	Crimp socket 3.6 mm, machined	AWG 8.....	S7.015.953.622
	Crimp socket 3.6 mm, machined	10 mm ²	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



STAINLESS STEEL CONNECTORS

FOR EXTREMELY ROUGH OR HYGIENIC USES

Mechanical Data	Materials and Technical Data
Housing	Stainless Steel V4A 1.4404 (AISI 316 L)
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
Seals / O-Rings	FKM, optional EPDM
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, 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. Other sizes available by special order.



Additional Information			
Electrical data see standard product		Inserts and contacts see standard product	
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M23 Signal Connectors	page 37	M23 Signal Connectors	page 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



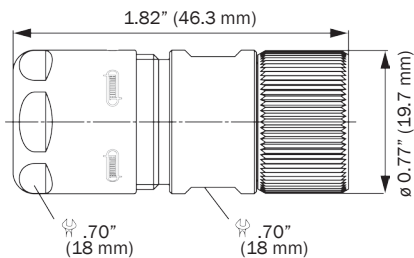
We do not recommend disconnecting or connecting Sealcon Connectors under load.

*Assembly Instructions can be found at www.SealconUSA.com or by calling us at 1-800-456-9012

STAINLESS STEEL CONNECTORS

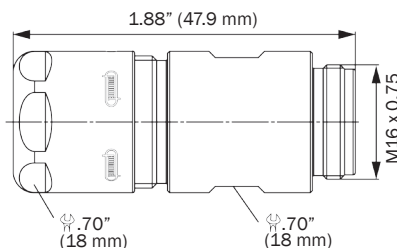
HOUSINGS

M16 Straight Connector, Female Thread



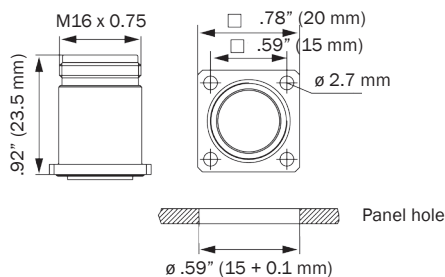
Cable-Ø	Part Number
3 - 6 mm (.12" - .24")	S7.814.300.000
5 - 9 mm (.20" - .35")	S7.814.400.000
8 - 11 mm (.31" - .43")	S7.814.500.000

M16 Straight Connector, Male Thread



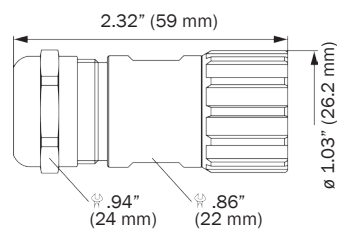
Cable-Ø	Part Number
3 - 6 mm (.12" - .24")	S7.824.300.000
5 - 9 mm (.20" - .35")	S7.824.400.000
8 - 11 mm (.31" - .43")	S7.824.500.000

M16 Panel Connector, Male Thread



Type	Part Number
4 x holes Ø 2.7 mm (.11")	S7.840.400.000
Flange 20 x 20 mm	

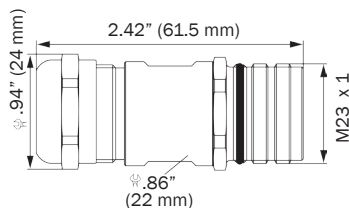
M23 Signal Straight Connector, Female Thread



Cable-Ø	Part Number	Part Number EMC
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, Male Thread



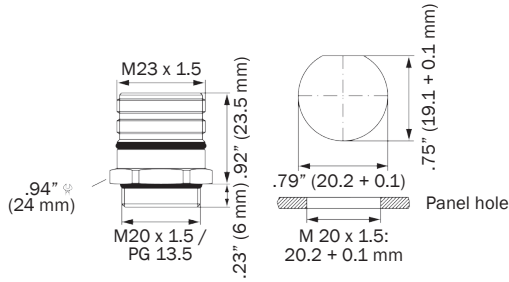
Cable-Ø	Part Number	Part Number EMC
3 - 7 mm (.12 - .28")	S7.240.300.000	S7.241.300.000
5 - 10 mm (.20 - .39")	S7.240.400.000	S7.241.400.000
7 - 12 mm (.27 - .47")	S7.240.500.000	S7.241.500.000
10 - 14 mm (.39 - .55")	S7.240.600.000	S7.241.600.000

*Stainless Steel Housings do not include inserts and contacts. Refer to applicable connector size and type sections for configuration options

STAINLESS STEEL CONNECTORS

HOUSINGS

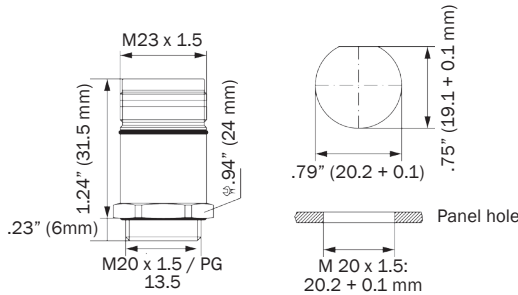
M23 Signal Panel Connector, Male Thread, Single Hole Mounted



Type	Part Number
Front mounting for male inserts	
Thread M20 x 1.5.....	S7.420.400.000

* FOR MALE *
INSERTS ONLY

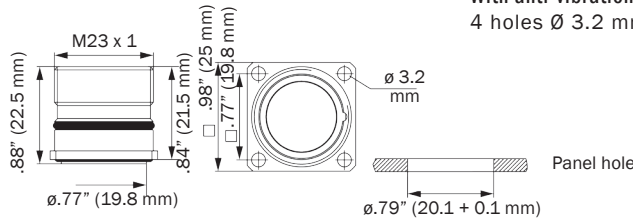
M23 Signal Panel Connector, Male Thread, Single Hole Mounted



Type	Part Number
Front mounting for female inserts	
Thread M20 x 1.5.....	S7.421.400.000

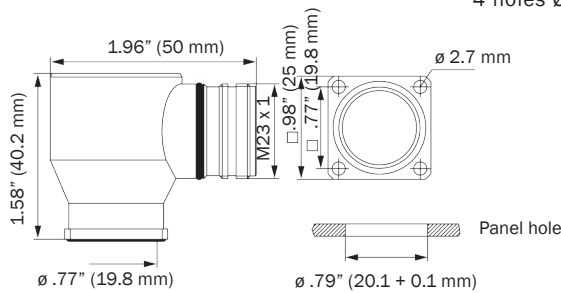
* FOR FEMALE *
INSERTS ONLY

M23 Signal Panel Connector, Male Thread



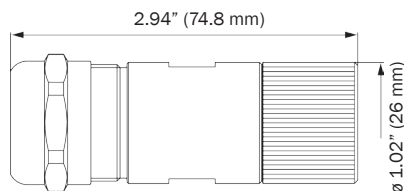
Type	Part Number
With anti-vibration O-Ring	
4 holes \varnothing 3.2 mm (.13").....	S7.410.400.000

M23 Signal Right Angle Panel Connector, Male Thread



Type	Part Number
4 holes \varnothing 2.7 mm (.11").....	S7.430.400.000

M23 Power Straight Connector, Female Thread



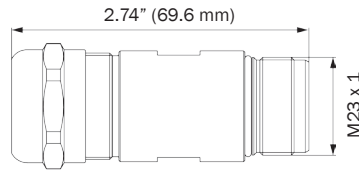
Type	Part Number
7 - 12 mm (.27 - .47").....	S7.554.500.000
11 - 17 mm (.43 - .67").....	S7.554.600.000

*Stainless Steel Housings do not include inserts and contacts. Refer to applicable connector size and type sections for configuration options

STAINLESS STEEL CONNECTORS

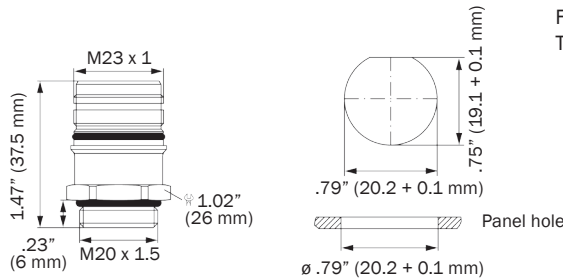
HOUSINGS

M23 Power Straight Connector, Female Thread



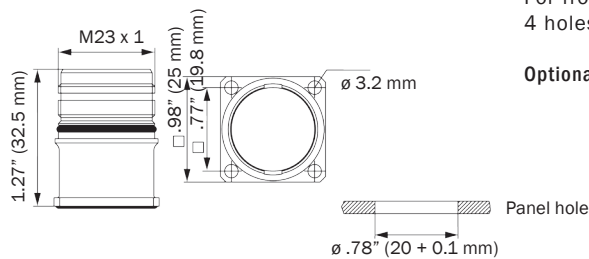
Type	Part Number
7 - 12 mm (.27 - .47")	S7.564.500.000
11 - 17 mm (.43 - .67")	S7.564.600.000

M23 Power Panel Connector, Male Thread, Single Hole Mounted



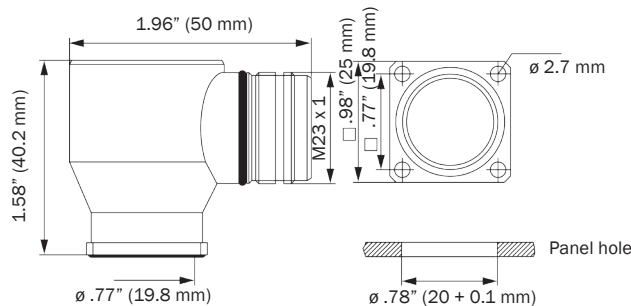
Type	Part Number
Front mounting Thread M20 x 1.5	S7.621.400.000

M23 Power Panel Connector, Male Thread



Type	Part Number
For front mounting 4 holes \varnothing 3.2 mm (.13")	S7.601.400.000
Optional: Flat gasket	

M23 Power Right Angle Panel Connector, Male Thread



Type	Part Number
4 holes \varnothing 2.7 mm (.11")	S7.630.400.000

*Stainless Steel Housings do not include inserts and contacts. Refer to applicable connector size and type sections for configuration options

STAINLESS STEEL CONNECTORS

ACCESSORIES



Plastic protective cap
for connectors M16 with male thread
.....S7.000.980.161

for connectors M16 with female thread
.....S7.000.980.162

for connectors M23 with male thread
.....S7.000.900.101

for connectors M23 with female thread
.....S7.000.900.102



Stainless Steel protective cap
for connectors M16 with female thread
.....S7.010.904.163

for connectors M23 Signal with female
threadS7.010.904.103

for connectors M23 Power with female
threadS7.010.904.183



Stainless Steel protective cap
for connectors M16 with male thread
.....S7.010.904.162

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 connectors M16 with female thread
70 mmS7.010.9S4.163

Stainless Steel protective cap with rope for
M23 Signal connectors with female thread
100 mmS7.010.9S4.103

Stainless Steel protective cap with rope for
M23 Power connectors with female thread
100 mmS7.010.9S4.183

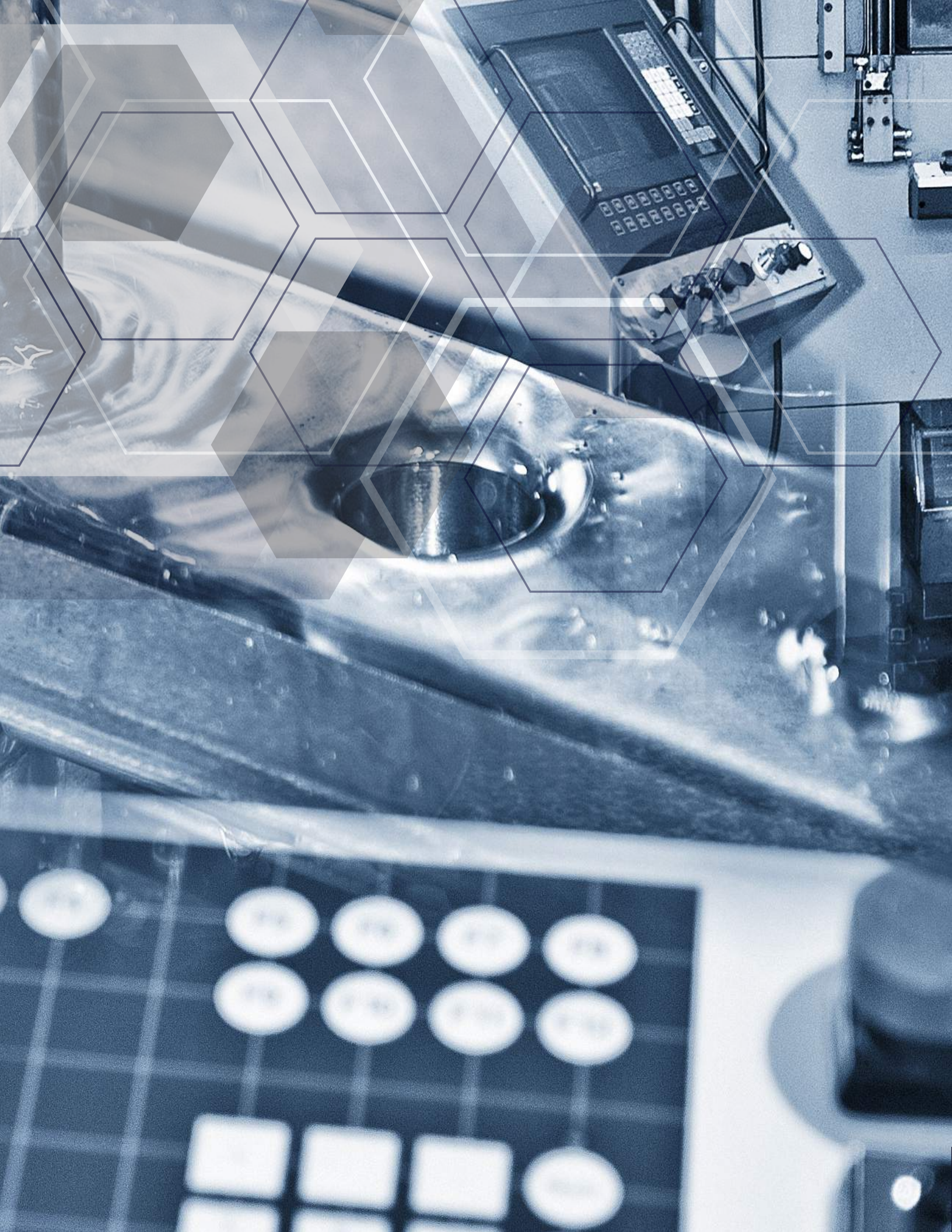


Stainless Steel protective cap with rope for
M16 connectors with male thread
70mmS7.010.9S4.162

Stainless Steel protective cap with rope for
M23 connectors with male thread
100mmS7.010.9S4.102



Crimp tool for manual crimping of
machined crimp contacts for power and
signal connectors.....S7.000.900.901

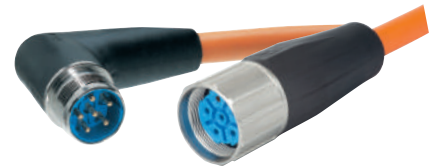


MOLDED CORDSETS

CUSTOM MOLDED CORDSETS

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	Buena-N standard Optional FKM
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 overmolded variants. This includes M12 and M16 connectors, as well as M23 signal - and M23 power connectors. Sealcon also has the capability of building custom configurations to your exacting specifications. Whether you are looking for a certain cable, connector material, or color, we can source and provide you a complete solution to save you time and overhead.



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

*Custom solutions may require longer lead times and minimum quantities



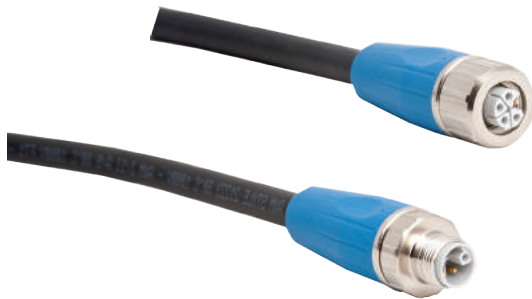
We do not recommend disconnecting or connecting Sealcon Connectors under load.



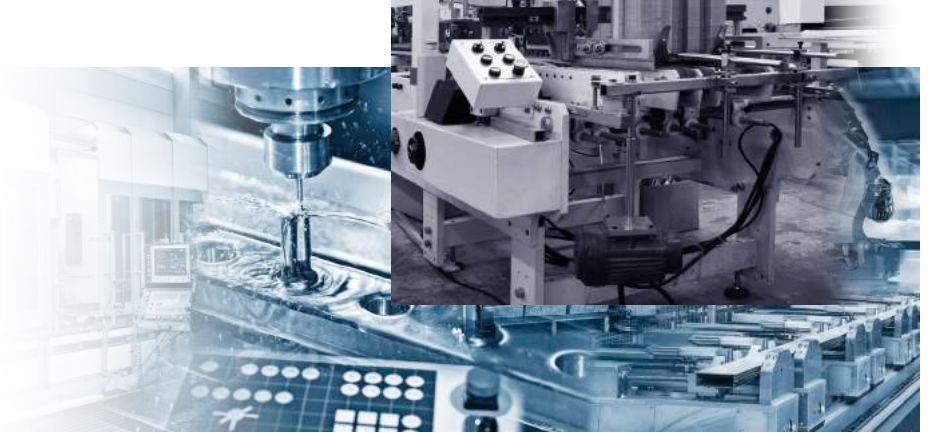
Molded connector cordsets are also available as Stainless-Steel (INOX)-Versions.

MOLDED CORDSETS

CUSTOM MOLDED CORDSETS



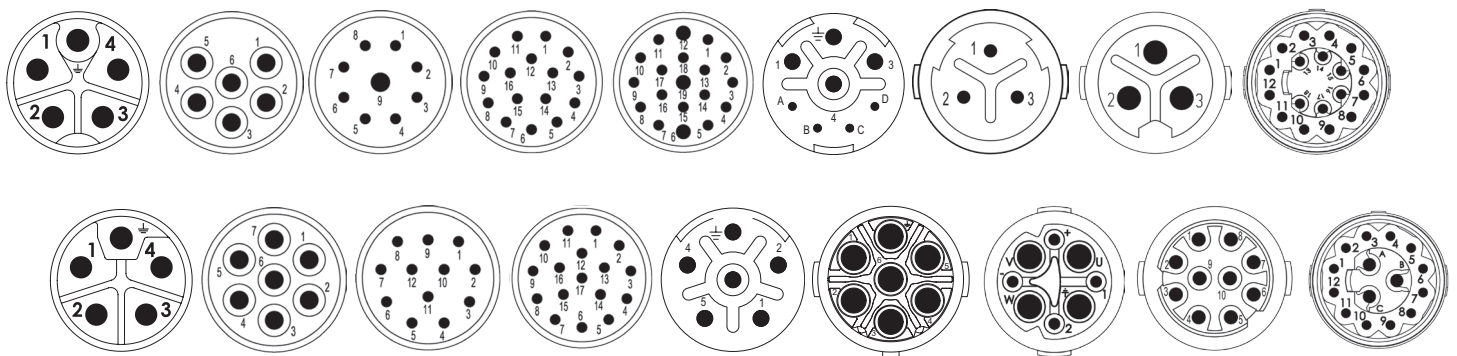
M12 Power Molded Cordset



Molded connector cordsets



Inserts

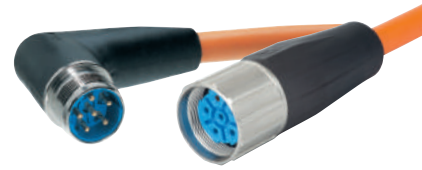


*Please contact Sealcon for more information on specifications, configurations, and custom products

CUSTOM 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 are needing. Contact us today for information.



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



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



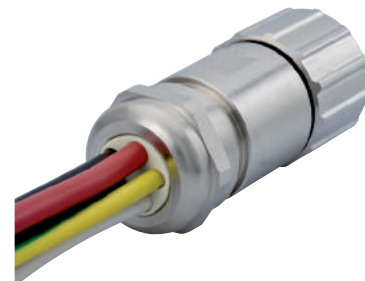
An integrated metalized EMI clamping insert grounds to the braid significantly simplifying the assembly of the elbow connector. The connection achieves the protection class IP 67.



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



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



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) voltages level 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.

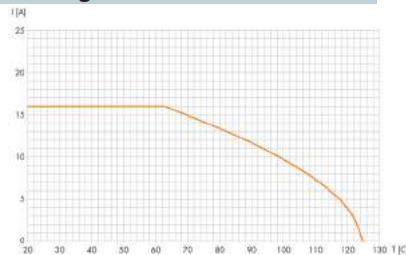
Safety Guidelines

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.

Derating M12 Power K+ L Coding

AWG 16 Straight connectors
male + female M12 Power

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



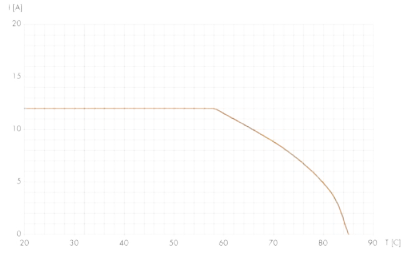
Do not connect or disconnect Sealcon Connectors under load.

TECHNICAL INFORMATION

Derating M12 Power S+T Coding

Straight connectors male + female M12 Power

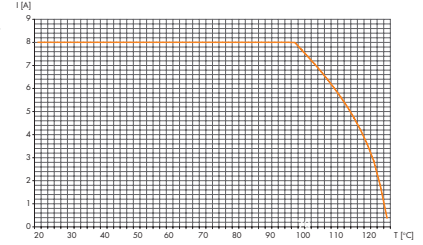
S- / T-Coding, wires 4 x AWG 16



Derating M23 Signal

Straight Connectors male + female M23

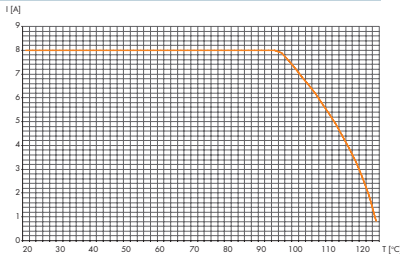
wires 12 x AWG 17



Derating M16

Straight connectors male + female M16

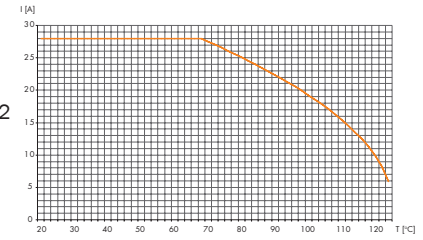
10 pole, wires 10 x AWG 18



Derating M23 Power

Straight connectors male + female M23

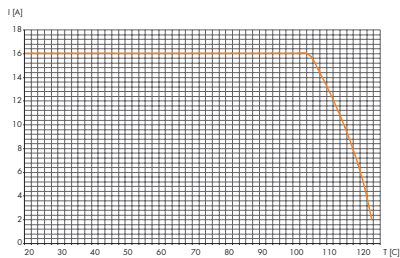
5 + PE, wires 5 x AWG 12



Derating TWINTUS

TWINTUS and straight connector female M16

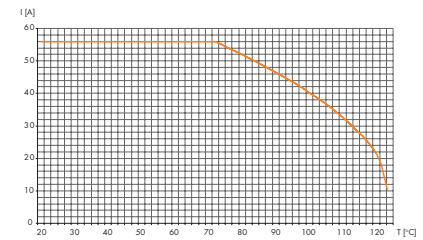
4+3+PE, wires AWG 14 (Power)
10 pole, wires AWG 26



Derating M40 (Size 1.5)

Straight connectors male + female M40

wires 3 x AWG 6



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