

# M23 SIGNAL CONNECTORS

DESIGNED WITH 6-19 POSITIONS

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

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

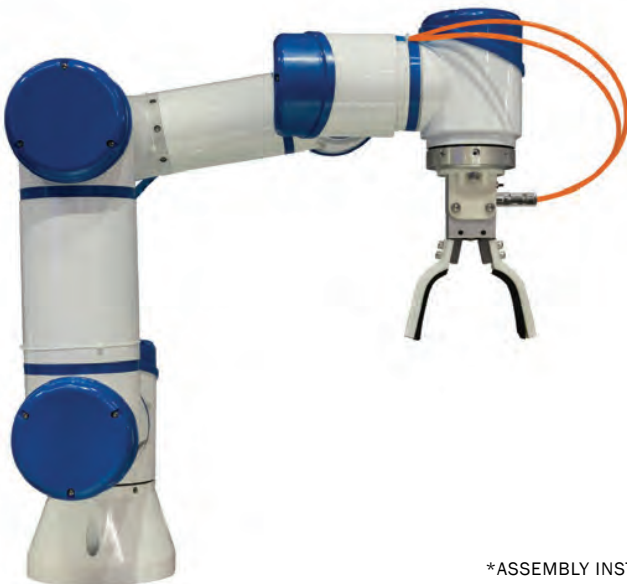


### Components Needed For A Complete M23 Signal Connector:

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

### Electrical Data

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



### CONNECTION SYSTEM TYPES



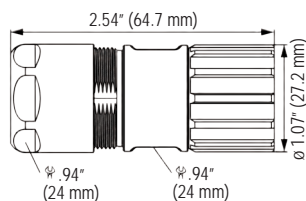
SEE TECHNICAL INFORMATION PAGE 80

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

# M23 SIGNAL CONNECTORS

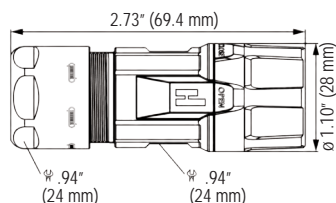
## HOUSINGS

### M23 Signal Straight Connector, EMI, Female Thread



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

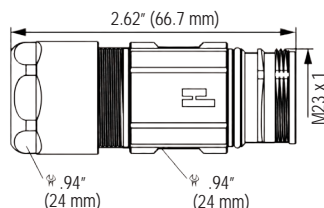
### M23 Signal Straight Connector, EMI, Female Thread Standard Threaded and TWILOCK/TWILOCK-S\* - Quick Connect



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

\* Intermateable with SpeedTEC® (Twilock-S)  
 3 - 7 mm (.12 - .28") ..... S7.166.400.00S  
 7 - 12 mm (.24 - .47") ..... S7.166.500.00S  
 11 - 17 mm (.43 - .67") ..... S7.166.600.00S

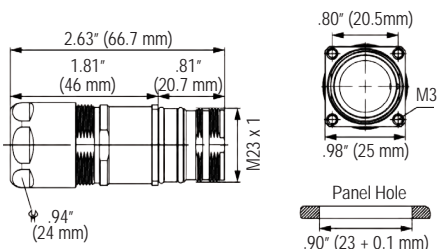
### M23 Signal Straight Connector, EMI, Male Thread Standard Threaded and TWILOCK/TWILOCK-S\* - Quick Connect



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

\* Intermateable with SpeedTEC® (Twilock-S)  
 3 - 7 mm (.12 - .28") ..... S7.266.400.00S  
 7 - 12 mm (.24 - .47") ..... S7.266.500.00S  
 11 - 17 mm (.43 - .67") ..... S7.266.600.00S

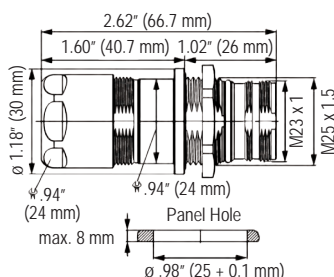
### M23 Signal Panel Connector with Strain Relief, EMI, Male Thread



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

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

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



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

\* Intermateable with SpeedTEC® (Twilock-S)  
 3 - 7 mm (.12 - .28") ..... S7.486.400.00S  
 7 - 12 mm (.24 - .47") ..... S7.486.500.00S  
 11 - 17 mm (.43 - .67") ..... S7.486.600.00S

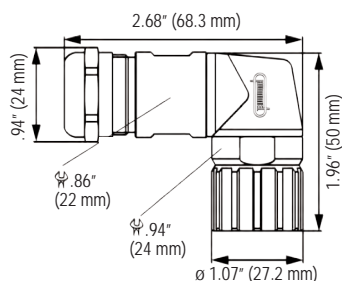
MATES WITH TWILOCK SYSTEM

DOES NOT MATE WITH TWILOCK SYSTEM

# M23 SIGNAL CONNECTORS

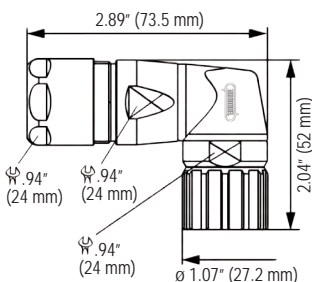
## HOUSINGS

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



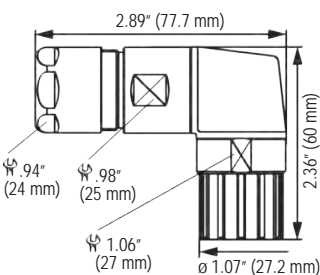
Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	S7.300.300.000
5 - 10 mm (.20 - .39")	S7.300.400.000
7 - 12 mm (.28 - .47")	S7.300.500.000
10 - 14 mm (.39 - .55")	S7.300.600.000

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



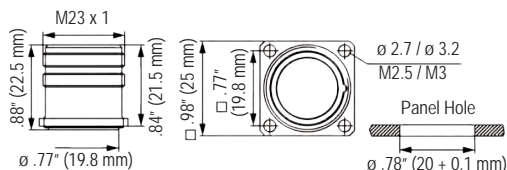
Cable-Ø	Part Number
7 - 12 mm (.28 - .47")	S7.301.500.000
10 - 14 mm (.39 - .55")	S7.301.600.000

### M23 Signal Right Angle Connector, EMI, Rotatable



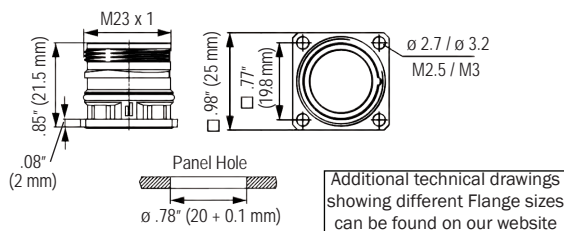
Cable-Ø	Part Number
7 - 12 mm (.28 - .47")	S7.306.500.000
11 - 17 mm (.43 - .67")	S7.306.600.000

### M23 Signal Panel Connector, Male Thread, Flange



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

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



Type	Part Number
<b>Front Mounting, Flange 25 x 25 mm</b>	
4 x Holes Ø 3.2 mm.....	⊗ S7.410.000.000
4 x Threaded M3.....	⊗ S7.412.000.000
Optional: Flat Gasket....	STAD2-7P2510
4 x Holes Ø 2.7 mm.....	⊗ S7.414.000.000
4 x Threaded M2.5.....	⊗ S7.416.000.000
Optional: Flat Gasket....	STAD1-7P2510
<b>*Intermateable with SpeedTEC® (Twilock-S)</b>	
4 x Holes 3.2 mm, Flange 25 x 25 mm...	⊗ S7.410.000.00S
Optional: Flat Gasket....	STAD2-7P2510
4 x Holes 3.2 mm, Flange 28 x 28 mm...	⊗ S7.410.100.00S

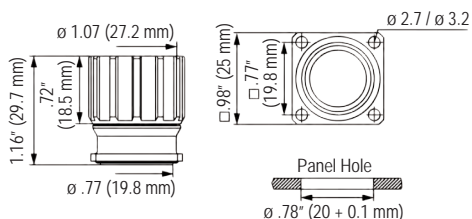
⊗ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM

# M23 SIGNAL CONNECTORS

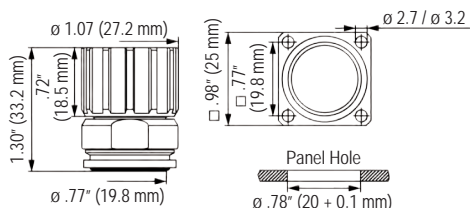
## HOUSINGS

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



Type	Part Number
Front Mounting, without Coding Option, Flange 25 x 25 mm	
4 x Holes $\varnothing$ 3.2 mm.....	S7.440.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes $\varnothing$ 2.7 mm.....	S7.444.000.000
Optional: Flat Gasket....STAD1-7P2510	

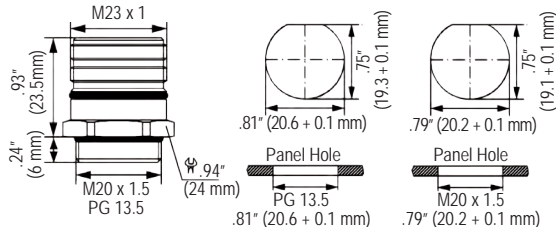
### M23 Signal Panel Connector, Female Thread, Knurled Nut, Positionable



Type	Part Number
Front Mounting, with Coding Option (8 x 45°), Flange 25 x 25 mm	
4 x Holes $\varnothing$ 3.2 mm.....	S7.448.000.000
Optional: Flat gasket....STAD2-7P2510	
4 x Holes $\varnothing$ 2.7 mm.....	S7.449.000.000
Optional: Flat gasket....STAD1-7P2510	

### M23 Signal Panel Connector, Single Hole, Male Thread

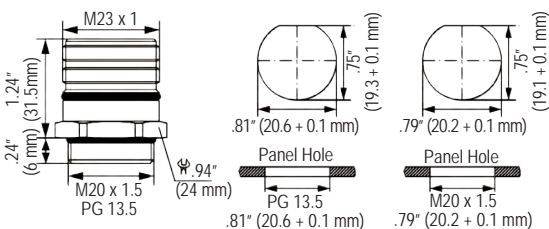
HOUSING FOR MALE INSERTS ONLY



Type	Part Number
Front Mounting for Male Inserts, Single Hole	
Thread M20 x 1.5.....	<input checked="" type="checkbox"/> S7.420.000.000
Thread PG 13.5 .....	<input checked="" type="checkbox"/> S7.422.000.000
Optional: Hex Locking Nut M20 x 1.5 / PG 13.5	

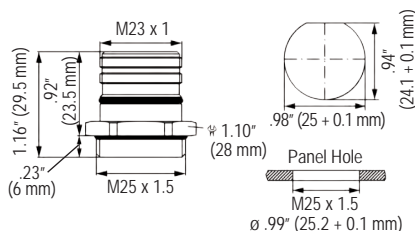
### M23 Signal Panel Connector, Single Hole, Male Thread

HOUSING FOR FEMALE INSERTS ONLY



Type	Part Number
Front Mounting for Female Inserts, Single Hole	
Thread M20 x 1.5.....	<input checked="" type="checkbox"/> S7.421.000.000
Thread PG 13.5 .....	<input checked="" type="checkbox"/> S7.423.000.000
Optional: Hex Locking Nut M20 x 1.5 / PG 13.5	

### M23 Signal Panel Connector, Single Hole, Male Thread



Type	Part Number
Front Mounting, Single Hole for Insert with Pins / Sockets	
Thread M25 x 1.5.....	<input checked="" type="checkbox"/> S7.425.000.000
Optional: Hex Locking Nut M25 x 1.5	

MATES WITH TWILOK SYSTEM


DOES NOT MATE WITH TWILOK SYSTEM

# M23 SIGNAL CONNECTORS

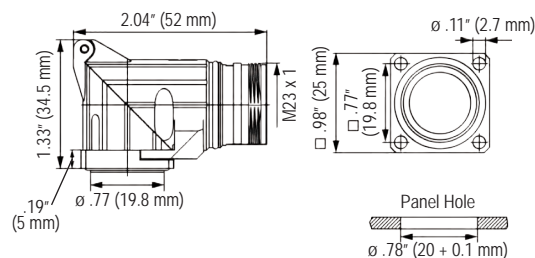
## HOUSINGS

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

Type Part Number


Fixed Mounting, Flange 25 x 25 mm  
 4 x Holes Ø 2.7 mm..... S7.435.000.000  
 Optional: Flat gasket....STAD1-7P2510

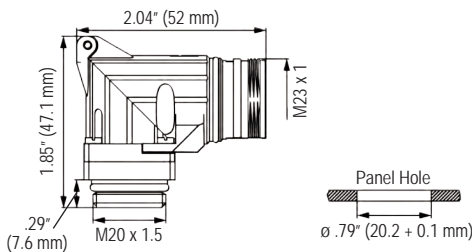
Easy Fastening with:  
 M2.5 x 10 mm Screws



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

Type Part Number

335° Rotatable, Hole Mounted  
 Thread M20 x 1.5..... S7.431.000.000



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

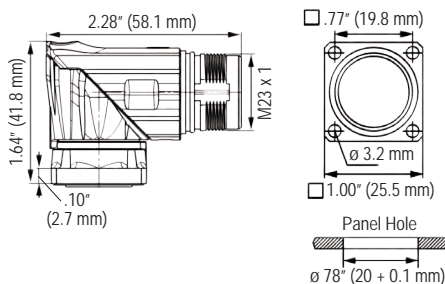
Type Part Number

330° Rotatable, Flange 25 x 25 mm  
 4 x Holes Ø 3.2 mm..... S7.439.000.000  
 Optional: Flat gasket....STAD1-7P2510

\*Intermable with SpeedTEC® (Twilock-S)  
 4 x Holes Ø 3.2 mm..... S7.439.000.00S  
 Optional: Flat gasket....STAD1-7P2510



1.5 mm Locking Screw at Flange



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

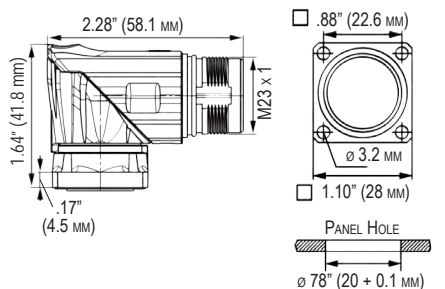
Type Part Number

330° Rotatable, Flange 28 x 28 mm  
 4 x Holes Ø 3.2 mm..... S7.439.100.000

\*Intermable with SpeedTEC® (Twilock-S)  
 4 x Holes Ø 3.2 mm..... S7.439.100.00S





1.5 mm Locking Screw at Flange



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

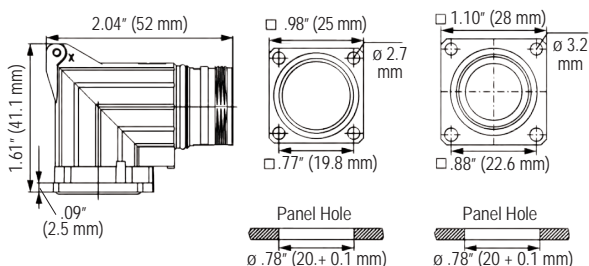
Type Part Number

300° Rotatable, 4 x Holes Ø 2.7 mm, Flange  
 Flange 25 x 25 mm..... S7.433.000.000  
 Optional: Flat gasket....STAD1-7P2510

300° Rotatable, 4 x Holes Ø 3.2 mm, Flange  
 Flange 28 x 28 mm..... S7.433.100.000



1.5 mm Locking Screw at Flange

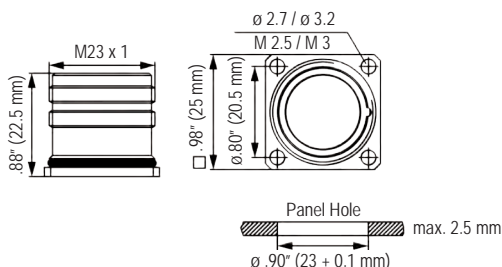


 MATES WITH TWILOCK SYSTEM  DOES NOT MATE WITH TWILOCK SYSTEM

# M23 SIGNAL CONNECTORS

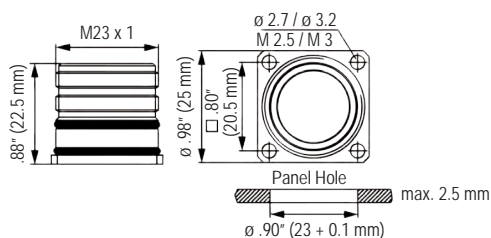
## HOUSINGS

### M23 Signal Panel Connector, Male Thread, Flange



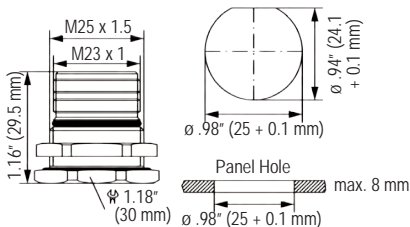
Type	Part Number
Rear Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	☒ S7.450.000.000
4 x Threaded M3.....	☒ S7.452.000.000
Optional: Flat gasket....	STAD4-7P2510
4 x Holes Ø 2.7 mm.....	☒ S7.454.000.000
4x Threaded M2.5 .....	☒ S7.456.000.000
Optional: Flat gasket....	STAD3-7P2510

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



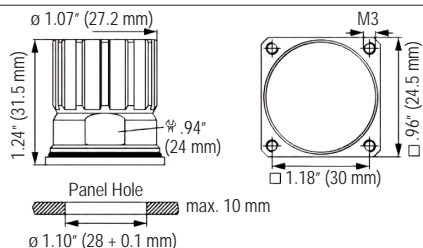
Type	Part Number
Rear Mounting, Flange 25 x 25 mm	
4 x Holes Ø 3.2 mm.....	☒ S7.460.000.000
4 x Threaded M3.....	☒ S7.462.000.000
Optional: Flat gasket....	STAD4-7P2510
4 x Holes Ø 2.7 mm.....	☒ S7.464.000.000
4 x Threaded M2.5 .....	☒ S7.466.000.000
Optional: Flat gasket....	STAD3-7P2510
*Intermateable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

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



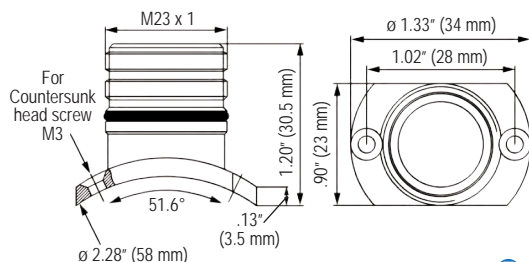
Type	Part Number
Single Hole, Rear Mounting	
Thread M25 x 1.5.....	☒ S7.458.000.000
*Intermateable with SpeedTEC® (Twilock-S)	
Thread M25 x 1.5.....	☒ S7.458.000.00S
Including Hex Locking Nut M25 x 1.5	

### M23 Signal Panel Connector, Female Thread, Flange



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

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



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


☒ MATES WITH TWILOCK SYSTEM ☒ DOES NOT MATE WITH TWILOCK SYSTEM

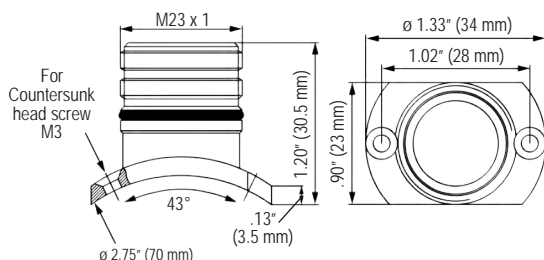
# M23 SIGNAL CONNECTORS

## HOUSINGS, ACCESSORIES

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

Type Part Number

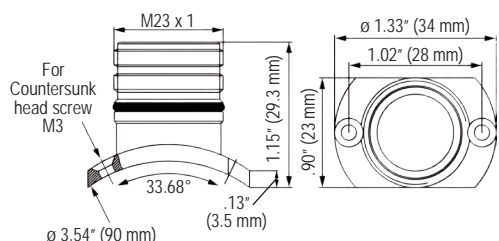
43° Radius Flange, 2 x Threaded M3, Front Mounting  
Flat Body Gasket  
Ø 70 mm (2.76") .....  S7.491.000.000



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

Type Part Number

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



### M23 Signal Accessories

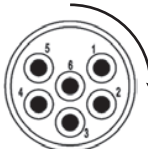

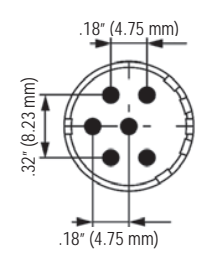
-  Plastic Protective Cap for connectors  
with Male thread ..... S7.000.900.101  
with Female thread ..... S7.000.900.102
-  Brass Protective Cap for connectors  
with Female thread .....  S7.010.900.103
-  Brass Protective Cap for connectors  
with Male thread ..... S7.010.900.102
-  Tool Adapter for tightening or loosening knurled  
nuts for M23 ..... S7.010.900.192
-  Adapter Flange  
for Straight Connectors .....  S7.010.900.128
-  Conduit Adapter  
Nylon Conduit DN 12 ..... S7.010.900.205  
Nylon Conduit DN 14 ..... S7.010.900.207  
Nylon Conduit DN 17 ..... S7.010.900.209
-  Assembly Tool ..... S7.010.900.101
-  Bus End Connector ..... S7.105.000.000

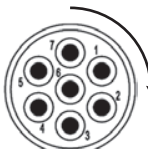
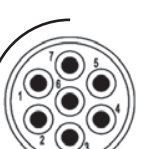
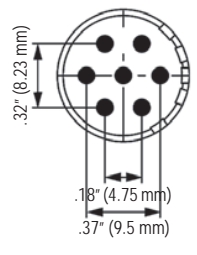
-  Brass Protective Cap with chain for connectors  
with Female thread  
Length 70 mm .....  S7.010.9S0.703  
Length 100 mm .....  S7.010.9S1.003
-  Brass Protective Cap with chain for connectors  
with Male thread  
Length 70 mm ..... S7.010.9S0.702  
Length 100 mm ..... S7.010.9S1.002
-  Screw Tool, adjustable 0.5 - 1.7 Nm .....  
..... S7.010.900.190
-  Crimp Tool for manual crimping of machined crimp  
contacts for signal connectors ..... S7.000.900.904
-  Positioner for Crimp Tool  
DMC M22520 ..... S7.000.900.DMC
-  Locator for Crimp Tool DMC M22520 with positioner  
..... S7.000.9DM.C03  
For Sealcon Contact:  
S7.010.901.001, S7.010.901.501, S7.010.902.001,  
S7.010.901.031
-  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

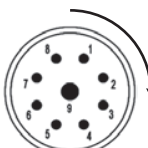
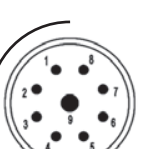
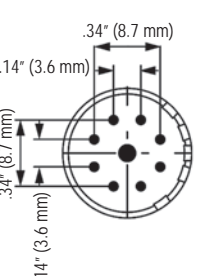
 MATES WITH TWILOCK SYSTEM       DOES NOT MATE WITH TWILOCK SYSTEM

# M23 SIGNAL CONNECTORS

## INSERTS

Inserts 6-pole	Type	Part Number	Part Number
 <p>Insert Pin Mating View (clockwise orientation)</p>	Pinout clockwise	Pins	Sockets
	Insert with solder contacts .....	S7.001.906.103.....	S7.001.906.104
 <p>Insert Socket Mating View (counterclockwise orientation)</p>	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. CODING POSSIBILITIES N, S, H, X, Y AND Z</p>			

Inserts 7-pole	Type	Part Number	Part Number
 <p>Insert Pin Mating View (clockwise orientation)</p>	Pinout clockwise	Pins	Sockets
	Insert with solder contacts .....	S7.001.907.103.....	S7.001.907.104
 <p>Insert Socket Mating View (counterclockwise orientation)</p>	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. CODING POSSIBILITIES N, S, H, X AND Y</p>			

Inserts 9-pole (8 + 1)	Type	Part Number	Part Number
 <p>Insert Pin Mating View (clockwise orientation)</p>	Pinout clockwise	Pins	Sockets
	Insert with solder contacts .....	S7.001.981.103.....	S7.001.981.104
 <p>Insert Socket Mating View (counterclockwise orientation)</p>	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. CODING POSSIBILITIES N, S, H, X AND Y</p>			

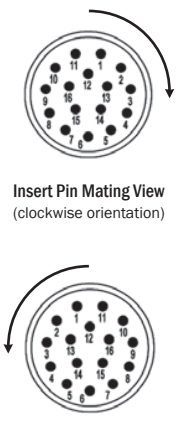
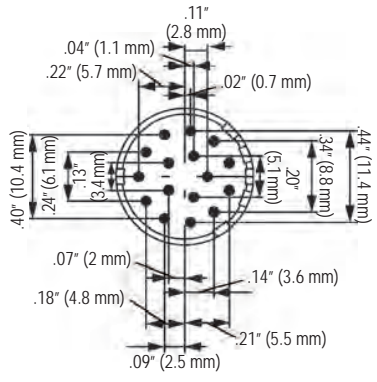
Inserts 9-pole (8 + 1)	Type	Part Number	Part Number
<p><b>Insert Pin Mating View</b> (counterclockwise orientation)</p> <p><b>Insert Socket Mating View</b> (clockwise orientation)</p> <p>CODING POSSIBILITIES N, S, H, X, AND Y</p>	<b>Pinout counterclockwise</b>	<b>Pins</b>	<b>Sockets</b>
	Insert with solder contacts .....	S7.002.981.103.....	S7.002.981.104
	Insert without contacts.....	S7.004.981.101.....	S7.004.981.102
	Insert with dip solder contacts		
	Length 3.5 mm.....	S7.002.981.107	
	Insert with dip solder contacts		
	Length 10 mm.....	S7.002.981.127.....	S7.002.981.108
	Insert with dip solder contacts		
	Length 17 mm.....	S7.002.981.13.....	S7.002.981.118
	THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.		

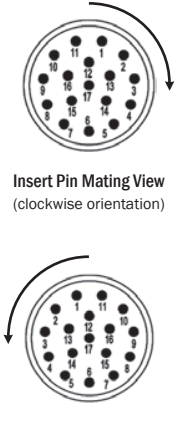
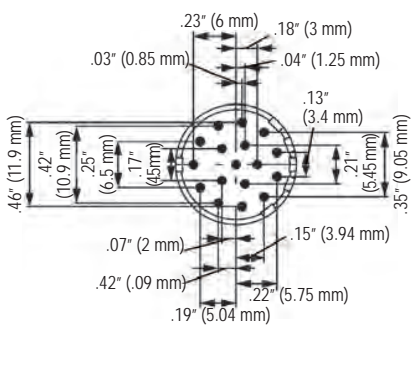
Inserts 12-pole	Type	Part Number	Part Number
<p><b>Insert Pin Mating View</b> (clockwise orientation)</p> <p><b>Insert Socket Mating View</b> (counterclockwise orientation)</p> <p>CODING POSSIBILITIES N, S, H, X, Y AND Z</p>	<b>Pinout clockwise</b>	<b>Pins</b>	<b>Sockets</b>
	Insert with solder contacts .....	S7.001.912.103.....	S7.001.912.104
	Insert with solder contacts .....	S7.001.912.113.....	S7.001.912.114
	+PE (Pos.9)		
	Insert without contacts.....	S7.003.912.101.....	S7.003.912.102
	Insert without contacts .....	S7.003.912.111.....	S7.003.912.112
	+PE (Pos.9)		
	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	
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.			


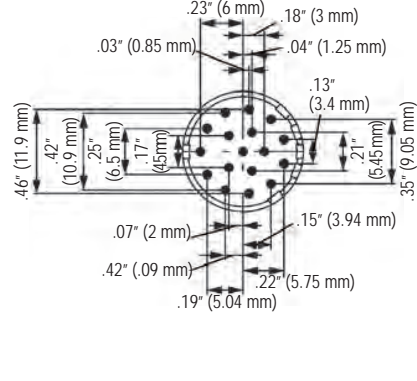
Inserts 12-pole	Type	Part Number	Part Number
<p><b>Insert Pin Mating View</b> (counterclockwise orientation)</p> <p><b>Insert Socket Mating View</b> (clockwise orientation)</p> <p>CODING POSSIBILITIES N, S, H, X, Y AND Z</p>	<b>Pinout counterclockwise</b>	<b>Pins</b>	<b>Sockets</b>
	Insert with solder contacts .....	S7.002.912.103.....	S7.002.912.104
	Insert w solder contacts .....	S7.002.912.113.....	S7.002.912.114
	+PE (Pos.9)		
	Insert without contacts.....	S7.004.912.101.....	S7.004.912.102
	Insert wo 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	
THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.			

# M23 SIGNAL CONNECTORS

## INSERTS

Inserts 16-pole	Type	Part Number	Part Number	
 <p>Insert Pin Mating View (clockwise orientation)</p> <p>Insert Socket Mating View (counterclockwise orientation)</p> 	Pinout clockwise	Pins	Sockets	
	Insert with solder contacts .....	S7.001.916.103.....	S7.001.916.104	
	Insert without contacts.....	S7.003.916.101.....	S7.003.916.102	
	Insert with dip solder contacts Length 3.5 mm.....	S7.001.916.107		
	Insert with dip solder contacts Length 10 mm.....	S7.001.916.127.....	S7.001.916.108	
	Insert with dip solder contacts Length 17 mm.....	S7.001.916.137.....	S7.001.916.118	
	THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.			
	CODING POSSIBILITIES N, S, H, X, Y AND Z			

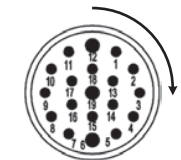
Inserts 17-pole	Type	Part Number	Part Number	
 <p>Insert Pin Mating View (clockwise orientation)</p> <p>Insert Socket Mating View (counterclockwise orientation)</p> 	Pinout clockwise	Pins	Sockets	
	Insert with solder contacts .....	S7.001.917.103.....	S7.001.917.104	
	Insert without contacts.....	S7.003.917.101.....	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	Type	Part Number	Part Number	
 <p>Insert Pin Mating View (counterclockwise orientation)</p> <p>Insert Socket Mating View (clockwise orientation)</p> 	Pinout counterclockwise	Pins	Sockets	
	Insert with solder contacts .....	S7.002.917.103.....	S7.002.917.104	
	Insert without contacts.....	S7.004.917.101.....	S7.004.917.102	
	Insert with dip solder contacts Length 3.5 mm.....	S7.002.917.107		
	Insert with dip solder contacts Length 10 mm.....	S7.002.917.127.....	S7.002.917.108	
	Insert with dip solder contacts Length 17 mm.....	S7.002.917.137.....	S7.002.917.118	
	THE CORRECT DIMENSION OF A CONNECTOR WITH DIP SOLDER CONTACTS DEPENDS ON THE PARTICULAR TYPE OF HOUSING.			
	CODING POSSIBILITIES N, S, H, X, Y AND Z			

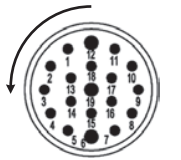
# M23 SIGNAL CONNECTORS

## INSERTS

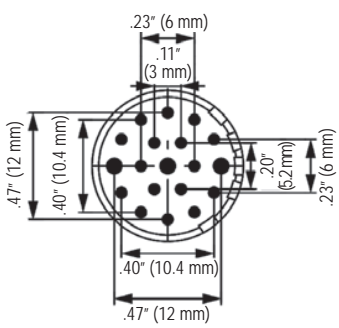
Inserts 19-pole	Type	Part Number	Part Number
	<b>Pinout clockwise</b>	<b>Pins</b>	<b>Sockets</b>
	Insert with solder contacts	S7.001.919.103	S7.001.919.104
	Insert with solder contacts + PE (Pos.12)	S7.001.919.113	S7.001.919.114
	Insert with solder contacts + PE (Pos.12) 1.5 mm elongated	S7.001.919.123	
	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.		



Insert Pin Mating View  
(clockwise orientation)



Insert Socket Mating View  
(counterclockwise orientation)

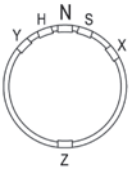
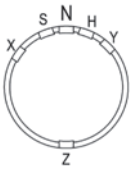















CODING POSSIBILITIES N, S, H, X AND Y

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

# M23 SIGNAL CONNECTORS

## CODING OPTIONS, CONTACTS

M23 Signal Coding	Number of Poles	Coding Possibilities
 <p>Female Inserts Mating View</p>  <p>Male Inserts Mating View</p>	6-pole.....	N, S, H, X, Y and Z
	7-pole .....	N, S, H, X and Y
	9-pole .....	N, S, H, X and Y
	12-pole.....	N, S, H, X, Y and Z
	16-pole.....	N, S, H, X, Y and Z
	17-pole.....	N, S, H, X, Y and Z
	19-pole .....	N, S, H, X and Y
<p>AS STANDARD, CODING GROOVE N IS OPENED. TO USE OTHER CODINGS, PLEASE REMOVE THE CODING BARRIER.</p>		

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