

M23 SIGNAL CONNECTORS

DESIGNED WITH 6-19 POSITIONS

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

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

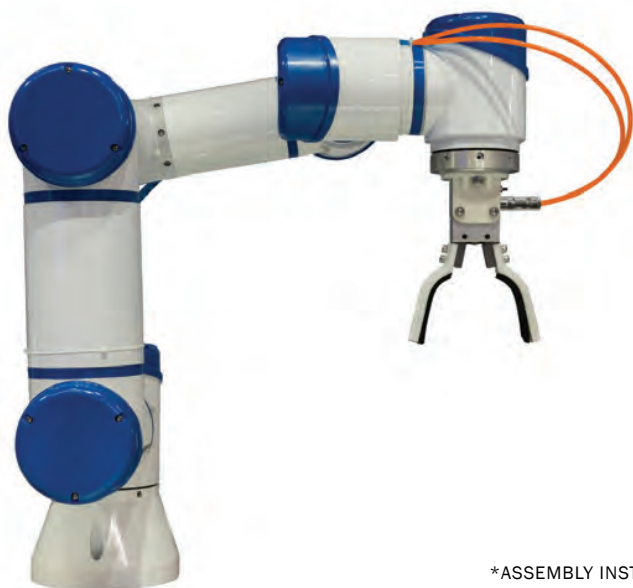


Components Needed For A Complete M23 Signal Connector:

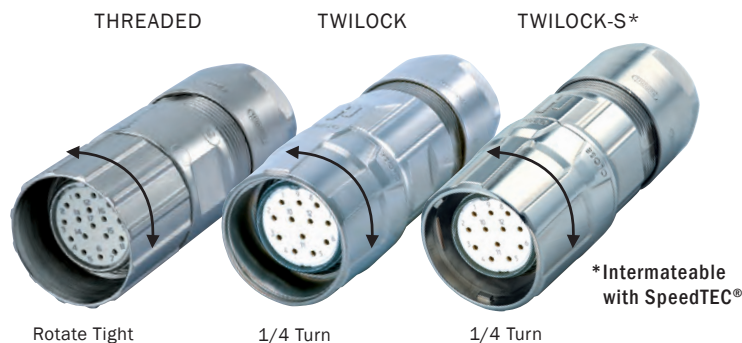
- **HOUSING** (pages 38 - 43)
- **INSERT** (pages 44 - 47)
- **CONTACTS** (if crimp contact insert is selected) (page 48)

Electrical Data

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



CONNECTION SYSTEM TYPES



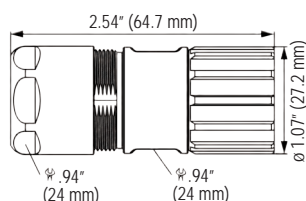
SEE TECHNICAL INFORMATION PAGE 80

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

M23 SIGNAL CONNECTORS

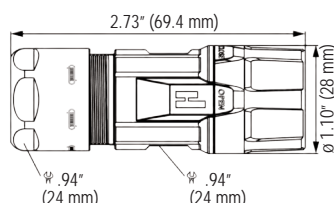
HOUSINGS

M23 Signal Straight Connector, EMI, Female Thread



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

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

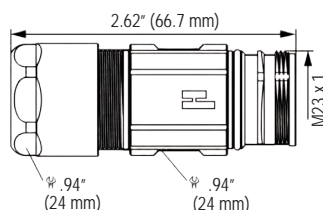


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	⊙ S7.166.400.000
7 - 12 mm (.24 - .47")	⊙ S7.166.500.000
11 - 17 mm (.43 - .67")	⊙ S7.166.600.000

*Intermateable with SpeedTEC® (Twilock-S)

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

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

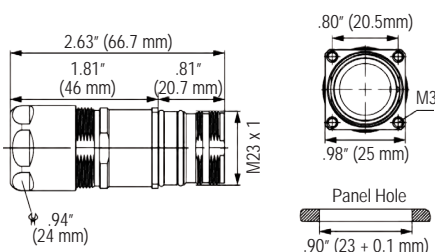


Cable-Ø	Part Number
3 - 7 mm (.12 - .28")	⊙ S7.206.400.000
7 - 12 mm (.28 - .47")	⊙ S7.206.500.000
11 - 17 mm (.44 - .67")	⊙ S7.206.600.000

*Intermateable with SpeedTEC® (Twilock-S)

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

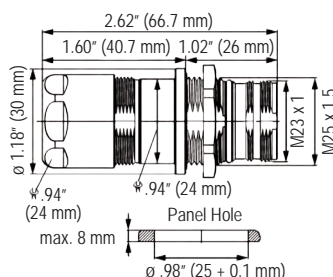
M23 Signal Panel Connector with Strain Relief, EMI, Male Thread



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

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

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



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

*Intermateable with SpeedTEC® (Twilock-S)

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

⊙ MATES WITH TWILOCK SYSTEM

⊗ DOES NOT MATE WITH TWILOCK SYSTEM