

M23 PoE CONNECTORS

POWER OVER ETHERNET

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



SEE TECHNICAL INFORMATION ON PAGE 80

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

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

Components Needed For A Complete M23 PoE Connector:

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

Electrical Data

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

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



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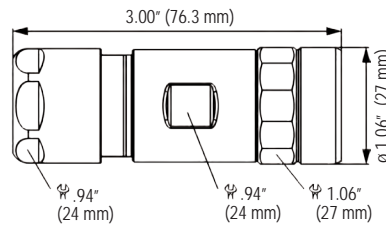
HOUSINGS

M23 PoE Straight Connector, EMI, Female Thread

Cable-Ø

Part Number

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

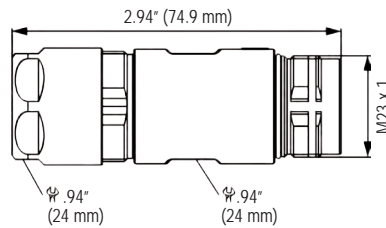


M23 PoE Straight Connector, EMI, Male Thread

Cable-Ø

Part Number

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

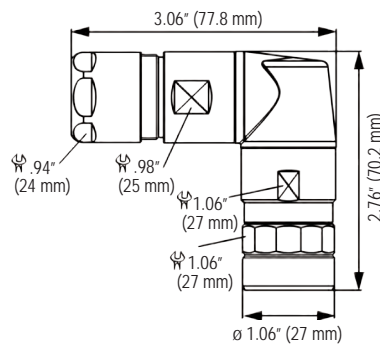
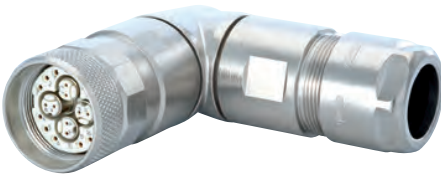


M23 PoE Right Angle Connector, EMI, Female Thread, Rotatable

Cable-Ø

Part Number

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



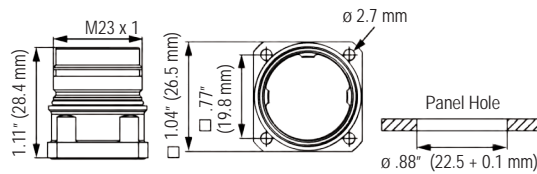
M23 PoE Panel Connector, Male Thread, Flange

Type

Part Number

Front Mounting, Flange 26 x 26 mm

4 x Holes Ø 2.7 mmS7.408.000.000



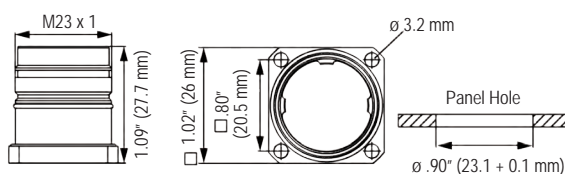
M23 PoE Panel Connector, Male Thread, Flange

Type

Part Number



Rear Mounting, Flange 26 x 26 mm





4 x Holes Ø 3.2 mm.....S7.468.000.000



M23 PoE CONNECTORS

INSERTS, CONTACTS, ACCESSORIES

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

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

M23 PoE Accessories

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