EPIC® CIRCON M23 Series Circular Signal Connectors

CIRCON M23 circular signal connectors are designed to DIN specification EN61984 and have a standard M23 threaded connection housing. They are offered in coupler, connector, and panel mount configurations that satisfy simple cable-to-cable and cable-to-machine requirements. They are ideal for control signal transmission and servo drive encoder feedback applications in the plastics, printing, analytical instrument, robotic, and machine tool industries, and any other industrial or commercial application where a compact, rugged connector is required.

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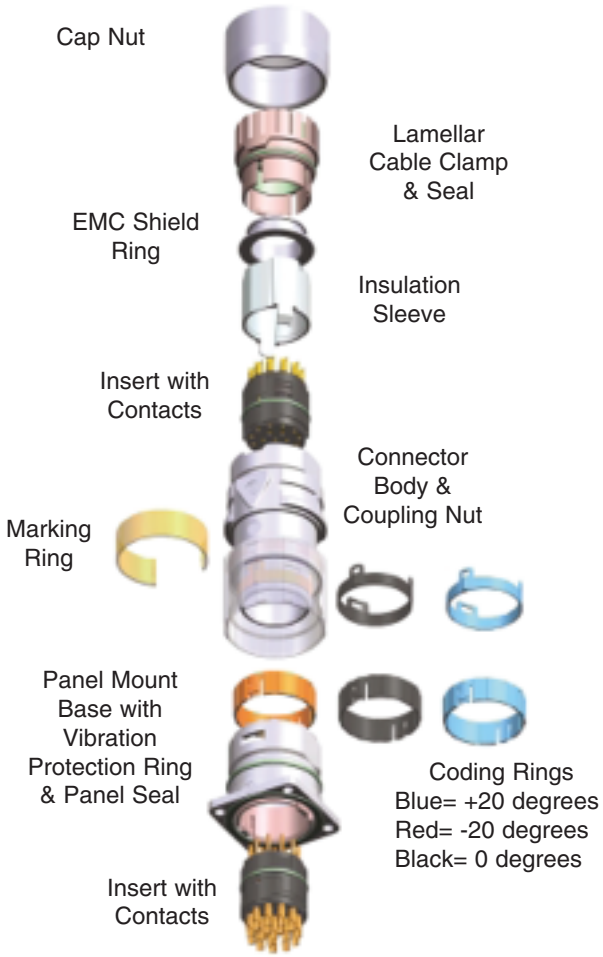
EPIC® CIRCON M23 Series

Technical Specifications

Equipment Description

EPIC CIRCON M23 Connectors are available in 3 housing arrangements that can accommodate 3 different insert keying positions. Inserts are offered in 7 contact configurations for mounting male or female, crimp or solder contacts. Common to all arrangements are a rugged nickel plated zinc body, plastic contact insulation body and sleeve, and gold plated electrical contacts. Cable mounted arrangements also include an integral EMC shield ring and cable clamp and seal. The figure to the right shows the general construction of these connectors.

The connectors are offered with insert configurations for 6, 7, 8+1, 9, 12, 16, and 17 crimp or solder contacts in either a clockwise or counter-clockwise orientation. Used in combination, they connect one cable with another (cable coupler) or a cable to fixed wiring in a control enclosure or on a machine, instrument, or servo motor.

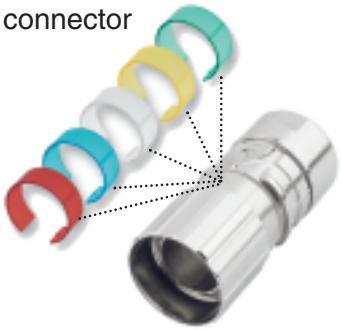


Features & Benefits

The new M23 connectors have many inherent features which offer application advantages and provide significant benefits for the customer. These features make it one of the most application friendly connectors available, and insure quick and easy assembly, high reliability, and long, uninterrupted service life in tough industrial environments.

5Key features include:

- Rugged Nickel-plated, die-cast Zinc Body
- Positive vibration protection for use with motor drives and moving assemblies
- Integral EMC cable gland provides strain-relief, IP67/IP68 protection, and 360 degree shielding
- Identification marking field and unique color marking clips provide positive identification and visual differentiation in multiple connector installations.
- Color-coded keying rings insure correct mating selection in applications where several connectors are mounted in the same location.



Technical Specifications

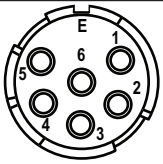
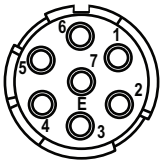
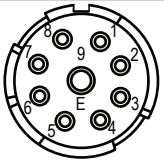
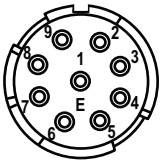
# of Contacts:	6, 7, 8+1, 9, 12, 16, 17
Rated Voltage:	6,7,8+1,9 poles - 150 volts 12 & 16 poles - 100 volts 17 poles - 50 volts
Rated Current:	6 & 7 pole: 14 amps; 8+1, 9, 12, 16, 17 pole: 7 amps
Impulse Voltage:	0.8 kV
Contact Resistance:	<5m Ohms
Mating Cycles:	100 minimum
Temperature Range:	-25°C to +125°C
Protection Class:	IP67/68 (10h/1m)
Wire Gauge: ***Crimp***	1mm : 0.14-1.0mm2 (24-18 AWG) 2mm : 1.0-2.5mm2 (18-14 AWG)
Solder	1mm : up to 1mm2 (18 AWG) 2mm : up to 2.5mm2 (14 AWG)
Cable Diameter:	7.0 to 13.5 mm
Materials:	Housing: Nickel Plated Zinc Insert: PA, PBT, UL94 V-0 Contacts: gold plated copper alloy Gaskets & Seals: FPM
Standards:	DIN EN 61984
Approvals:	

EPIC® CIRCON M23 Series

Insert Configurations & Contacts

Insert Configurations

Connector inserts will accept both male and female contacts. A complete connection requires one E-Type insert and one P-Type insert

E-Type Insert (Clockwise numbered contacts viewed from the mating side)	**73.002766** w/o contacts	**73.002754** w/o contacts	**73.002742** w/o contacts	**73.002730** w/o contacts	**73.002718** w/o contacts	**73.002706** w/o contacts	**73.008500** w/o contacts
	73.002768 w/male solder	**73.002756** w/male solder	**73.002744** w/male solder	**73.002732** w/male solder	**73.002720** w/male solder	**73.002708** w/male solder	**73.028500** w/male solder
	73.002770 w/female solder	**73.002758** w/female solder	**73.002746** w/female solder	**73.002734** w/female solder	**73.002722** w/female solder	**73.002710** w/female solder	**73.018500** w/female solder
	 Use 2mm Contacts	 Use 2mm Contacts	 Use 1 & 2mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts
							
# of Contacts	**6**	**7**	**8+1**	**9**	**12**	**16**	**17**
P-Type Insert (Counter-Clockwise numbered contacts viewed from the mating side)							
	 Use 2mm Contacts	 Use 2mm Contacts	 Use 1 & 2mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts	 Use 1mm Contacts
	73.002760 w/o contacts	**73.002748** w/o contacts	**73.002736** w/o contacts	**73.002724** w/o contacts	**73.002712** w/o contacts	**73.002700** w/o contacts	**73.008000** w/o contacts
	73.002762 w/male solder	**73.002750** w/male solder	**73.002738** w/male solder	**73.002726** w/male solder	**73.002714** w/male solder	**73.002702** w/male solder	**73.028000** w/male solder
	73.002764 w/female solder	**73.002752** w/female solder	**73.002740** w/female solder	**73.002728** w/female solder	**73.002716** w/female solder	**73.002704** w/female solder	**73.018000** w/female solder

Contacts

Part Number	Description	Pack Size
72.400000	M23 Gold Male Crimp 1mm Contact: 0.14 -1.0 mm² (26 - 18 AWG)	100
72.402000	M23 Gold Male Solder Contact: up to 1.0 mm² (18 AWG)	100
72.402600	M23 Gold Female Solder Contact: up to 1.0 mm² (18 AWG)	100
74.200600	M23 Gold Female Crimp Contact: 0.14 -1.0 mm² (26 -18 AWG)	100
74.034500	M23/LS1 HYP Gold Female Crimp Contact D6: 0.14 - 1.0 mm² (26 -18 AWG)	100
72.401600	M23 Gold Female Crimp 2 mm Contact: 1.0 - 2.5 mm² (18 - 14 AWG)	100
72.404000	M23 Gold Female Solder Contact 2mm up to 2.5 mm² (14 AWG)	100
72.401000	M23 Gold Male Crimp 2mm Contact: 1.0 - 2.5 mm² (18 - 14 AWG)	100
72.403000	M23 Gold Male Solder 2 mm Contact: up to 2.5 mm² (14 AWG)	100

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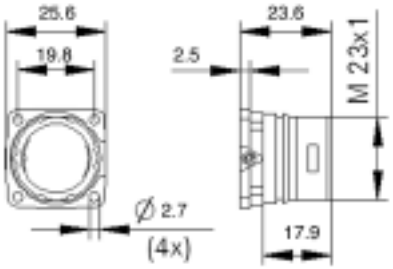
Housing Configurations

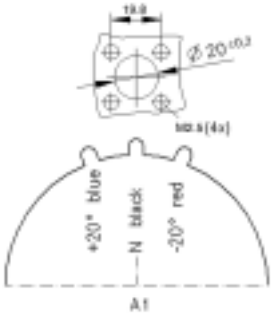
Housing Configurations

Panel mount base, cable connector, and cable coupler housings are provided with color-coded keying rings to insure correct mating selection in multiple connector applications.

STRAIGHT PANEL MOUNT BASE (STYLE A1)

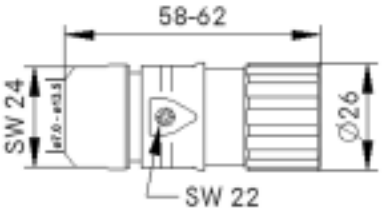
Keying "N"	Keying "-20"	Keying "+20"
		
72.004000	72.004100	72.004200

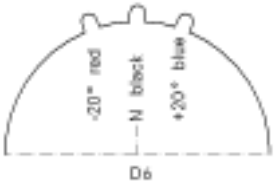




CABLE CONNECTOR (STYLE D6)

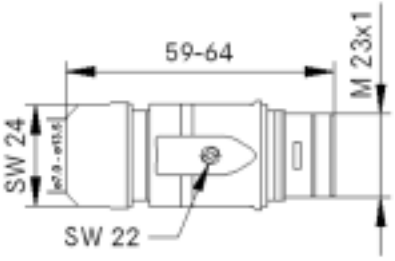
Keying "N"	Keying "-20"	Keying "+20"
		
44.420037	44.420036	44.420038

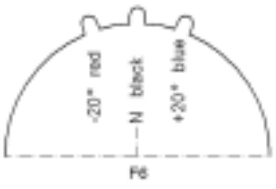




CABLE COUPLER (STYLE F6)

Keying "N"	Keying "-20"	Keying "+20"
		
44.420040	44.420039	44.420041





(All dimensions above are in mm)

EPIC® CIRCON M23 Series

Tools & Accessories

Crimp Tool
0.14 - 6.0 mm²
11.1480

Locator
11.148300

Removal Tool
Panel Base Insert
75.005150

Metal Screw Cap
Style A1: 75.018110
Style F6, F7: 75.018010

Plastic Protection Cap
Style D6: 75.007710
Style A1, F6, F7: 75.007810

Yellow Marking Rings
44.420098

Red Marking Rings
44.420100

Blue Marking Rings
44.420096

Green Marking Rings
44.420099

Transparent Marking Rings
44.420097

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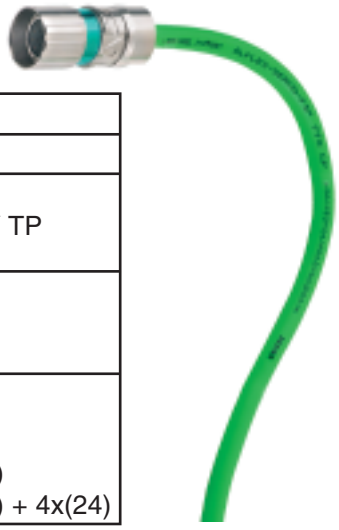
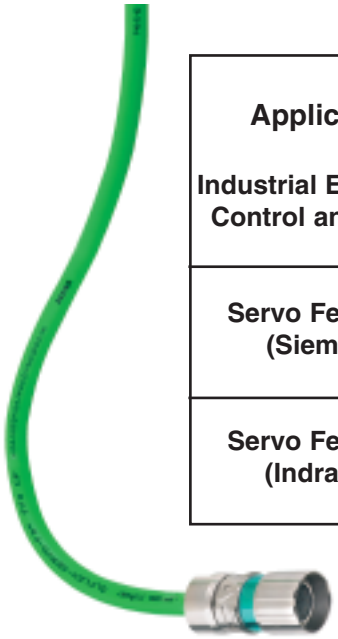
Cable Applications

The CIRCON M23 connectors are ideal for use with industrial control and data cables, and servo feedback cables. Based on the specific application, a wide variety of cable/connector combinations is possible. The tables below provide a sampling of the possibilities.



Stationary/Flexible Applications

Application	Use With Connector Contact Configuration	
	6 & 7 Pole	8+1, 9, 12, 16, & 17 Pole
Industrial Equipment Control and Signal	OLFLEX® 190/190 CY	UNITRONIC® 190/190 CY/190 CY TP
	OLFLEX® 490P/490 CP	
	OLFLEX® 590P/590 CP	
	SPIREX® 400P/540 P	UNITRONIC® 300/300CY
	OLFLEX® TC 600	
	OLFLEX® Tray II	
Servo Feedback (Siemens)		OLFLEX® Servo LK-SMS-FX5 0025724 - 4x2x(22) + 4x(20) 0025725 - 3x2x(26) + 4x(26) + 1x2x(20) 0025726 - 3x2x(26) + 4x(26) + 1x2x(20) + 4x(24)



Continuous Flex Applications

Application	Use With Connector Contact Configuration	
	6 & 7 Pole	8+1, 9, 12, 16, & 17 Pole
Industrial Equipment Control and Signal	OLFLEX®-FD 890/890 CY	UNTRONIC®-FD 890
	OLFLEX®-FD 891/891 CY	UNTRONIC®-FD P Plus
	OLFLEX®-FD 890 P/890 CP	UNTRONIC®-FD CP Plus
	OLFLEX®-FD 891 P/891 CP	UNTRONIC®-FD CP (TP) Plus
Servo Feedback (Siemens)		OLFLEX® Servo LK-SMS-FX8
		0027711 - 4x2x(22) + 4x(20)
		0027713 - 3x2x(26) + 4x(26) + 1x2x(20)
		0027714 - 3x2x(26) + 4x(26) + 1x2x(20) + 4x(24)
Servo Feedback (Indramat)		OLFLEX® Servo LK-INX
		7072400 - 4x2x(24) + 2x(18)
		7072401 - 4x2x(24) + 2x(20)
		7072402 - 9x(20)

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