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signal mate® C091 M16 Q Quicklock

Available in 3, 4, 5a, 5b, 6, 7a, 7b, 8, 12, 14a, 14b, and 19 Positions

Amphenol's signalmate® C091 M16 Q Quicklock circular DIN connectors are an extension of the recognized industry standard C091 Series and feature the Quicklock Coupling System.



Optimized for use in outdoor applications, the thermoplastic housings provide an IP68 rating when mated and resist corrosion. The Quicklock Coupling System offers significant time savings while ensuring an easy mating/unmating process, verified by the tactile and audible clicking sound of the locking mechanism.

Features

- IP68 rated (mated) Thermoplastic Housings
- Corrosion Resistent Compact & Cost Effective •

Quicklock Coupling System
 Cable Mount Plug

- Standard Configurations up to 19 Contacts
- Rear Panel Mount Receptacle

Potential Applications

Measuring Instruments and Equipment, Factory Automation, Drive Systems and Components, Lighting, Entertainment, CCTV/Security Cameras, Low Power/Signal Transmission, High Resolution Inspection Equipment, Heavy Equipment, Agriculture, Construction, Transportation, Off-Road Recreation, Industrial, Conveyors, Packaging Machinery, Motion Control, Servo Motors and Wireless Infrastructure

How Quicklock Works

Step 1

To mate the plug and receptacle together, ensure the keying is aligned in the correct position.



Step 2

Push the plug onto the receptacle until the coupling ring automatically locks into place around the receptacle, as confirmed by both an audible "click" and tactile feel.



Step 3

To unmate the connection, the coupling ring on the plug must be rotated counter-clockwise, at which point the plug can be removed.















Standard products. Custom solutions Customer Service +1 800 394 7732

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signalmate® C091 Family Overview

Proofcors 2, 3, 4, 5a, 5b, 4, 7a, 7b, 8, 12, 140, and 140 200 M16 D 200 M1	signalmate® C091 Famil	y Overview				1
Positions 2. 3. 4. 5a. 5b. 6. 7a. 7b. 8. 12, 14a, and 14b 12, 14a, and 14b,	Series	(C091) M16 A	©091 M16 B	©091 M16 D	©91 M16 D+	©091) M16 Q
Positions 8, 12, 14α, and 14b 12, 14α, and 14b 12, 14α, 14b, and 19	lmage					
Current Rating (+40°C) 5-8 pos: 7A 12-14 pos: 3A 18-8 pos: 7A 12-14 pos: 3A 12-14 pos: 3A Operating Voltage Up to 300V per IEC 60664-1 Standard 3-4 pos: 150V 5-8 pos: 100V 5-20 pos: 100V 7b-19 pos: 32V Temperature Range -40°C to +100°C Coupling System Metal Screw Plastic Bayonet Metal Screw Quicklock I'P Rating (mated) IP40 IP65/67/69K IP68/69K IP68 Dielectric Material Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic Thermoplastic Contact Plating Silver/Gold Silver/Gold No Yes Yes (360° Shielding) No Contact Temination Solder, Crimp Contact Types Machined: Stamped & Formed: Solder and PC Tall AWG Range 18 thru 28AWG Insulation Resistance > 10°°Q Contact Resistance < 5mQ Mating Cycles Silver ≥ 500; Gold ≥1000 Flammability UL 94 V0	Positions					
Operating Voltage Up to 300V per IEC 60644-1 Standard So post 100V 50 post 32V 6-7 a post 100V 7b-19 post 32V 6-7 a post 100V 7b-19 post 32V 6-7 a post 100V 7b-19 post 32V Temperature Range -40°C to +100°C Coupling System Metal Screw Plastic Bayonet Metal Screw Quicklock IP Rating (materal) IP40 IP65/67/69K IP68/69K IP68 Dielectric Moterial Thermoplastic Thermoplastic Housing Material Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic Contact Plating Silver/Gold Yes (360° Shielding) No Shieldable Yes No Yes (360° Shielding) No Contact Termination Solder, Crimp No AWG Range 18 thru 28AWG Insulation Resistance > 10 II/Q Silver ≥ 500; Gold ≥ 1000 Silver ≥ 500; Gold ≥ 1000 Mating Cycles Silver ≥ 500; Gold ≥ 1000 UL 94 V0	Current Rating (+40°C)	5-8 pos: 7A	5-8 pos: 7A			5-8 pos: 7A
Coupling System Metal Screw Plastic Bayonet Metal Screw Quicklock IP Rating (mated) IP40 IP65/67/69K IP68/69K IP68 Dielectric Material Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic Contact Plating Silver/Gold Shieldable Yes No Yes Yes (360° Shielding) No Contact Termination Solder, Crimp Contact Types Machined; Stamped & Formed; Solder and PC Tall AWG Range 18 thru 28AWG Insulation Resistance > 10 №Ω Contact Resistance < 5mΩ Mating Cycles Silver ≥ 500; Gold ≥ 1000 Flammobility UL 94 V0	Operating Voltage	Up to 300V per IEC 60664-1 Standard				5a pos: 100V 5b pos: 32V 6-7a pos: 100V
PRating (mated) P40 P65/67/69K P68/69K P68	Temperature Range	-40°C to +100°C				
Dielectric Material Thermoplastic Housing Material Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic Contact Plating Silver/Gold Shieldable Yes No Yes Yes (360° Shielding) No Contact Termination Solder, Crimp Contact Types Machined; Stamped & Formed; Solder and PC Tail AWG Range 18 thru 28AWG Insulation Resistance > 10™Ω Contact Resistance < 5mΩ	Coupling System	Metal Screw	Plastic Bayonet Metal Screw		Quicklock	
Housing Material Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic Contact Plating Silver/Gold Shieldable Yes No Yes Yes (360° Shielding) No Contact Termination Solder, Crimp Contact Types Machined: Stamped & Formed: Solder and PC Tail AWG Range 18 thru 28AWG Insulation Resistance > 10 ™Ω Contact Resistance < 5mΩ	IP Rating (mated)	IP	40	IP65/67/69K	IP68/69K	IP68
Contact Plating Silver/Gold Shieldable Yes No Yes (360° Shielding) No Contact Termination Solder, Crimp Contact Types Machined; Stamped & Formed; Solder and PC Tail AWG Range 18 thru 28AWG Insulation Resistance > 10 ™Ω Contact Resistance < 5mΩ	Dielectric Material	Thermoplastic				
Shieldable Yes No Yes Yes (360° Shielding) No Contact Termination Solder, Crimp Contact Types Machined; Stamped & Formed; Solder and PC Tail AWG Range 18 thru $28AWG$ Insulation Resistance $> 10^{10}\Omega$ Contact Resistance $< 5m\Omega$ Mating Cycles Silver ≥ 500 ; Gold ≥ 1000	Housing Material	Brass or Zinc Die-Cast, Nickel Plated, or Thermoplastic Thermoplastic				
Contact Termination Solder, Crimp Contact Types Machined; Stamped & Formed; Solder and PC Tail AWG Range 18 thru 28AWG Insulation Resistance > 10 °Ω Contact Resistance < 5mΩ Mating Cycles Silver ≥ 500; Gold ≥ 1000 Flammability UL 94 V0	Contact Plating	Silver/Gold				-
Contact Types Machined; Stamped & Formed; Solder and PC Tail AWG Range $18 \text{ thru } 28 \text{AWG}$ Insulation Resistance $> 10^{10} \Omega$ Contact Resistance $< 5 \text{m} \Omega$ Mating Cycles Silver ≥ 500 ; Gold ≥ 1000 Flammability UL 94 V0	Shieldable	Yes	No	Yes	Yes (360° Shielding)	No
AWG Range $18 \text{ thru } 28 \text{AWG}$ Insulation Resistance $ > 10^{10} \Omega$ Contact Resistance $ < 5 \text{m} \Omega$ Mating Cycles $ \text{Silver} \ge 500; \text{ Gold } \ge 1000 $ Flammability $ \text{UL } 94 \text{ VO} $	Contact Termination	Solder, Crimp				
Insulation Resistance $> 10^{10}\Omega$ Contact Resistance $< 5m\Omega$ Mating Cycles Silver ≥ 500 ; Gold ≥ 1000 Flammability UL 94 V0	Contact Types	Machined; Stamped & Formed; Solder and PC Tail				
Contact Resistance $< 5m\Omega$ Mating Cycles Silver ≥ 500 ; Gold ≥ 1000 Flammability UL 94 V0	AWG Range	18 thru 28AWG				
Mating Cycles Silver ≥ 500; Gold ≥1000 Flammability UL 94 V0	Insulation Resistance	> 1010Ω				
Flammability UL 94 V0	Contact Resistance	< 5mΩ				
	Mating Cycles	Silver ≥ 500; Gold ≥1000				
Corrosion Resistance N/A N/A 720h (Salt Spray) N/A	Flammability	UL 94 VO				
	Corrosion Resistance	N/A	A N/A 720h (Salt Spray)			N/A

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