



C091 signalmate® 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)
- Corrosion Resistant
- Compact & Cost Effective
- Standard Configurations up to 19 Contacts
- Thermoplastic Housings
- Quicklock Coupling System
- Cable Mount Plug
- 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.



Part of
C091 signalmate® C091 Family



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



signalmate® C091 Family Overview

Series	 M16 A	 M16 B	 M16 D	 M16 D+	 M16 Q
Image					
Positions	2, 3, 4, 5a, 5b, 6, 7a, 7b, 8, 12, 14a, and 14b		3, 4, 5a, 5b, 6, 7a, 7b, 8, 12, 14a, and 14b		3, 4, 5a, 5b, 6, 7a, 7b, 8, 12, 14a, 14b, and 19
Current Rating (+40°C)	2-3 pos: 10A 5-8 pos: 7A 12-14 pos: 3A		3-4 pos: 10A 5-8 pos: 7A 12-14 pos: 3A		3-4 pos: 10A 5-8 pos: 7A 12-19 pos: 3A
Operating Voltage		Up to 300V per IEC 60664-1 Standard			3-4 pos: 150V 5a pos: 100V 5b pos: 32V 6-7a pos: 100V 7b-19 pos: 32V
Temperature Range			-40°C to +100°C		
Coupling System	Metal Screw	Plastic Bayonet	Metal Screw		Quicklock
IP Rating (mated)		IP40	IP65/67/69K	IP68/69K	IP68
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 ¹⁰ Ω		
Contact Resistance			< 5mΩ		
Mating Cycles			Silver ≥ 500; Gold ≥ 1000		
Flammability			UL 94 V0		
Corrosion Resistance	N/A	N/A	720h (Salt Spray)		N/A

For more information, contact: Customer Service, +1 800 394 7732, csr@amphenol-sine.com

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