



C091 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)
- 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 signal|mate® C091 Family**



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

signalmate® C091 Family Overview

Series	C091 M16 A		C091 M16 B		C091 M16 D		C091 M16 D+		C091 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	

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