



# C091 signal|mate® C091 Family



Available in 2 thru 8, 12, 14 and 19 Position (Depending on Series)

Amphenol's **signal|mate® C091 (M16 Size) Family** of circular DIN connectors and cable assemblies are available in 5 options **M16 A, M16 B, M16 D, M16 D+ and M16 Q (Quicklock)** with either a threaded, bayonet or quicklock option offering environmental protection up to IP69K when mated. The compact design provides excellent EMI shielding capability ensuring the highest integrity for power and signal connections. The modular structure of the series enables a broad field of applications in diverse temperature ranges and many types for 4G/5G mobile radio networks, establishing the **signal|mate® C091 (M16) Family** as the recognized industry standard.

- C091 **M16 A**
- C091 **M16 B**
- C091 **M16 D**
- C091 **M16 D+**
- C091 **M16 Q**

### 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

# C091 C091 AISG/RET



Available in 4, 5 and 6 Position

Amphenol's **signal|mate® C091 (M16 Size) AISG/RET Cable Assemblies** for outdoor use meet all the requirements for extreme outdoor use. System coupling integrity, temperature, salt mist, and UV resistance are a few of the important criteria a connector must meet. Our AISG connectors are manufactured according to the AISG Standard (AISG C 485). Amphenol has set the standards with our C091 circular connector series. Compatible with industry cables from Andrew, Kathrein, Scala, Ericsson, Alcatel Lucent (ALU), Huawei, Kaelus, RFS, KMW, and many others.

First in the market as original innovators of AISG connector systems, we manufacture durable cable assemblies for antennas that are in service for several years in some of the harshest environments on the planet.

### Potential Applications

Wireless Infrastructure, Harsh Environment



Standard products. Custom solutions  
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## 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 <sup>10</sup> 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](mailto:csr@amphenol-sine.com)

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