



C091 (M16) Family

Available in 2 thru 8, 12 and 14 Position



Amphenol's **C091 (M16 Size) Family** of circular DIN connectors and cable assemblies are available in 4 different series (**A, B, D and D+**) with a threaded or bayonet locking 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 C091 (M16) Family as the recognized industry standard.

C091 A

C091 B

C091 D

C091 D+

Potential Applications

High Resolution Inspection Equipment, Industrial Ink Jet Printers, Heavy Equipment, Agriculture, Construction, Transportation, Off-Road Recreation, Industrial, Automation, Conveyors, Packaging Machinery, Motion Control, Servo Motors, Entertainment, Medical, and Wireless Infrastructure

C091 AISG/RET

Available in 4, 5 and 6 Position



Amphenol's **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
Customer Service +1 800 394 7732

Individual C091 Series Comparison Chart

Series	 C091 A	 C091 B	 C091 D	 C091 D+
Image				
Positions	2 thru 8, 12 and 14	3 thru 8, 12 and 14	3 thru 8, 12 and 14	3 thru 8, 12 and 14
Current Rating	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; 12-14 pos: 3A	3-4 pos: 10A; 5-8 pos: 7A; 12-14 pos: 3A
Operating Voltage	Up to 300V per IEC 60664-1 Standard	Up to 300V per IEC 60664-1 Standard	Up to 300V per IEC 60664-1 Standard	Up to 300V per IEC 60664-1 Standard
Temperature Range	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C	-40°C to +100°C
Coupling System	Metal Screw	Plastic Bayonet	Metal Screw	Metal Screw
IP Rating	IP40 mated	IP40 mated	IP65/67/69K mated	IP68/69K mated
Dielectric Material	Thermoplastic	Thermoplastic	Metal	Metal
Housing Material	Brass or Zinc Die-Cast, Nickel Plated, or Thermoplast	Brass or Zinc Die-Cast, Nickel Plated, or Thermoplast	Brass or Zinc Die-Cast, Nickel Plated, or Thermoplast	Brass or Zinc Die-Cast, Nickel Plated, or Thermoplast
Contact Plating	Silver/Gold	Silver/Gold	Silver/Gold	Silver/Gold
Shieldable	Yes	No	Yes	Yes
Contact Termination	Solder, Crimp	Solder, Crimp	Solder, Crimp	Solder, Crimp
Contact Types	Machined; Stamped & Formed; Solder and PC Tail	Machined; Stamped & Formed; Solder and PC Tail	Machined; Stamped & Formed; Solder and PC Tail	Machined; Stamped & Formed; Solder and PC Tail
AWG Range	18 thru 28AWG	18 thru 28AWG	18 thru 28AWG	18 thru 28AWG
Insulation Resistance	> 10 Ω	> 10 Ω	> 10 Ω	> 10 Ω
Contact Resistance	< 5 m Ω	< 5 m Ω	< 5 m Ω	< 5 m Ω
Mating Cycles	Silver ≥ 500; Gold ≥1000	Silver ≥ 500; Gold ≥1000	Silver ≥ 500; Gold ≥1000	Silver ≥ 500; Gold ≥1000
Flammability	UL 94 V0	UL 94 V0	UL 94 V0	UL 94 V0
Corrosion Resistance	720h (Salt Spray)	720h (Salt Spray)	720h (Salt Spray)	720h (Salt Spray)

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

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