



44 Series™

Thermoplastic Rubber Circular Connectors



Available in 1, 2, 3, 4, 5 and 6 position

Amphenol Sine Systems proudly introduces the **44 Series™ Thermoplastic Rubber Circular Connectors**. The demand for reliable and versatile connectivity solutions has never been higher and these connectors exhibit outstanding durability, resisting a range of environmental factors including water, fuel, lubricants, ozone, and road salt. Our 44 Series™ is vibration-resistant and field-proven for indoor/outdoor, rugged applications.

Advantages

- Sealed watertight system ensures performance in wet conditions
- Low-cost, economical solution for manufacturers
- Proven reliability and established as a trusted choice across industries
- Reduce both time and installation expenses with a straightforward crimp and insert method



Key Features

- Offered in 1 through 6 position variations
- Engineered with a polarized design to facilitate quick, mistake-free, blind connections and protection against mis-mating
- Designed for 14-18AWG wires, able to efficiently handle a range of power requirements
- IP65/67 Rated (in mated condition)
- Stamped and formed contacts for discreet wire interconnection

Applications: Marine, Military, Heavy Equipment, Industrial, Traffic Control, Outdoor Lighting, Recreational Vehicle, as well as other demanding interconnect applications

44 Series™ - Specifications

Temperature Range	-40°C to +105°C	Overall Wire Insulation Dia.	0.080" to 0.130" (2.03mm to 3.30mm)
Max. Current (Amperage)	8A	Contacts	Tinned, Copper-Alloy
Voltage Rating	250V	Contact Retention	Axial Displacement of Contact < 0.03" (0.762mm)
Impulse Withstand Voltage	1000V	Insulation Material	Santoprene, Thermoplastic Rubber
Insulation Resistance	> 5000mΩ	Strain Relief	For free connectors, the wires have to be prevented against push/pull-forces and from rotation at the connection area
Contact Resistance	< 30mΩ	RoHS Compliant	RoHS ALL materials meet the requirements of the European Directive.
Max. Mating Cycles	> 25		
IP Rating	IP65/67 (in mated condition)		
Wire Range	18 - 14AWG (2.5mm ² - 1.0mm ²)		



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

44 Series™ - Insert Configurations



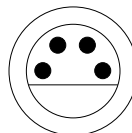
1 Position



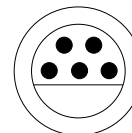
2 Position



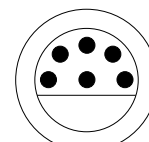
3 Position



4 Position



5 Position

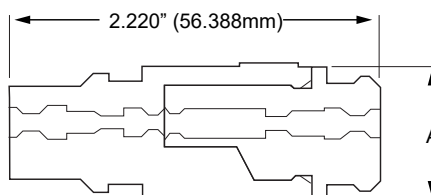


6 Position

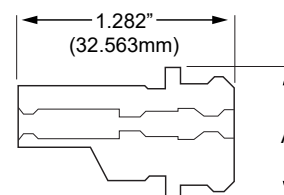
44 Series™ - Dimensions



Plug



Mated Plug & Receptacle



Receptacle







No. of Contacts	A Dimension	B Dimension
1	0.497" (12.624mm)	0.440" (11.176mm)
2	0.607" (15.418mm)	0.470" (11.938mm)
3	0.708" (17.983mm)	0.570" (14.478mm)
4	0.819" (20.803mm)	0.682" (17.323mm)
5	0.819" (20.803mm)	0.682" (17.323mm)
6	0.933" (23.698mm)	0.796" (20.218mm)

44 Series™ - Cut-Away View







- (A) Plug Housing
- (B) Receptacle Housing
- (C) Alignment Arrows
- (D) Wire Sealing Area
- (E) Primary Seal
- (F) Secondary Seal
- (G) Secondary Seal Locking Groove
- (H) Socket Contacts
- (J) Pin Contacts
- (K) Boot Seal (For optional cable jacketing)





44 Series™ - Plugs

Image	Part Number	Description	Wire AWG	Amperage
	04410310001	1 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A
	04410310002	2 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A
	04410310003	3 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A
	04410310004	4 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A
	04410310005	5 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A
	04410310006	6 Position, Female Plug, Socket Contact, 44 Series™, Black Body	14-18AWG	8A

44 Series™ - Receptacles

	0441041000102	1 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A
	0441041000202	2 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A
	0441041000302	3 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A
	0441041000402	4 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A
	0441041000502	5 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A
	0441041000602	6 Position, Male Receptacle, Pin Contact, 44 Series™, Black Body	14-18AWG	8A

44 Series™ - Contacts

	0441001414P100101	Male Pin Contact for Receptacle, Tinned Copper Alloy, 100 Piece Bag	14-18AWG	8A
	0441001414P1000101	Male Pin Contact for Receptacle, Tinned Copper Alloy, 1,000 Piece Bag	14-18AWG	8A
	0441001414P5000	Male Pin Contact for Receptacle, Tinned Copper Alloy, 5,000 Piece Reel	14-18AWG	8A
	0441021414S100101	Female Socket Contact for Plug, Tinned Copper Alloy, 100 Piece Bag	14-18AWG	8A
	0441021414S1000101	Female Socket Contact for Plug, Tinned Copper Alloy, 1,000 Piece Bag	14-18AWG	8A
	0441021414S5000	Female Socket Contact for Plug, Tinned Copper Alloy, 5,000 Piece Reel	14-18AWG	8A

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