



em eco|mate® Contacts

Machined, Stamped & Formed and RADSOK® Precision Connector Contacts

Amphenol Sine Systems is your trusted component source for precision connector contacts designed for increased reliability and reduced cost. Our ecomate® contacts are readily available in a wide variety of materials and plating combinations and can be supplied with a variety of contact types.

Amphenol Sine Systems' **ecomate® Aquarius™**, **ecomate® Aquarius™ Fathom Lock**, **ecomate® RM**, **ecomate® RSSM** and **ecomate® RM High Amp** circular, multiway connectors provide an IP67-69k rating range (in mated condition) for indoor/outdoor industrial applications and feature robust, durable plastic or metal designs with either bayonet or rapid coupling systems. With a max. amperage/voltage range up to 45A-300A/600V-900V, depending on the series, our ecomate® Family of products are perfect for a wide range of Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting markets.

We can custom design, engineer and manufacture cable assemblies to your exact customer specifications and produce large or small quantities, all to the highest standards, delivered on-time and in-specification, all with a significant cost-savings over the competition.

Machined Contacts

Designed for heavy duty applications, these solid contacts will accommodate greater wire sizes

- Wire Size Range: 30AWG to 8AWG (0.05 - 10mm²)
- Available in Size 20, 16, 12 and 8 in both Pin and Socket
- Current Rating Range: 7.5A to 45A
- Copper Alloy
- Gold, Gold Flash, Tin, and Silver plating options available



Stamped & Formed Contacts

Precision-engineered, stamped & formed design provides cost-effective wire processing, while ensuring high reliability conductor termination and performance

- Wire Size Range: 20AWG to 12AWG (0.5 - 3.5mm²)
- Available in Size 20, 16 and 12 in both Pin and Socket
- Current Rating Range: 5A to 23A
- Copper Alloy and Stainless Steel
- Gold, Gold Flash, and Tin plating options available
- Insulation Support Included



RADSOK® Machined Contacts

RADSOK® technology is based on a stamped and formed flat grid, uniquely twisted into a hyperbolic geometry to provide robust, high density contact to the mating pin contact.

- Wire Size Range: 8AWG to 3/0 AWG (10 - 95mm²)
- Available in Size 8AWG, 4AWG, 2AWG, 1AWG, 2/0AWG, and 3/0AWG in Pin, Socket, Flathole Tail and Screw Tail
- Current Rating Range: 45A to 300A
- Copper Alloy, Silver-Plated



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ecomate® Contacts - Machined, Crimp
(Plating Options - Replace "x" in part number with appropriate Symbol from chart below.)

Size 20 (1.0mm), 7.5A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
MP18W23x	MS18W23x	20 - 18AWG	0.50 - 0.75 mm ²	Yes
MP20W23x	MS20W23x	22 - 20AWG	0.34 - 0.50 mm ²	Yes
MP24W23x	MS24W23x	26 - 24AWG	0.13 - 0.25 mm ²	Yes
MP28W23x	MS28W23x	30 - 28AWG	0.05 - 0.08 mm ²	Yes
Size 16 (1.6mm), 13A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
MP14M23x	MS14M23x	16 - 14AWG	1.5 - 2.5 mm ²	Yes
MP16M23x	MS16M23x	18 - 16AWG	0.75 - 1.50 mm ²	Yes
MP20M23x	MS20M23x	22 - 20AWG	0.34 - 0.50 mm ²	Yes
MP24M23x	MS24M23x	26 - 24AWG	0.14 - 0.25 mm ²	Yes
MP28M23x	MS28M23x	30 - 28AWG	0.14 - 0.05 mm ²	Yes
Size 12 (2.5mm), 23A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
MP10B23x	MS10B23x	12-10AWG	4.0 - 6.0 mm ²	Yes
Size 8 (3.6mm), 45A - For use with 1403 Layout Only				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
MP10A23x-10	MS10A23x-10	8AWG	10mm ²	No
MP10A23x-63	MS10A23x-63	12 - 10AWG	4.0 - 6.0 mm ²	No
-	MS10A23x-63W	12 - 10AWG	4.0 - 6.0 mm ²	Yes
MP10A23xL	-	12 - 10AWG	3.0 - 6.0 mm ²	Yes
MP10A23x-25	MS10A23x-25	16 - 14AWG	1.5 - 2.5 mm ²	No
-	MS10A23x-25W	16 - 14AWG	1.5 - 2.5 mm ²	Yes
Size 8 (3.6mm), 45A - For use with 1604 Layout Only				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
MP10A23x	MS10S23x	12 - 10AWG	3.0 - 6.0 mm ²	Yes

ecomate® Contacts - Stamped & Formed, Crimped
(Plating Options - Replace "x" in part number with appropriate Symbol from chart below.)

Size 20 (1.0mm), 5A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
SP20W2x	SS20W2x	22 - 18AWG	0.34 - 0.75 mm ²	Yes
SP24W2x	SS24W2x	26 - 24AWG	0.13 - 0.25 mm ²	Yes
SP28W2x	SS28W2x	30 - 28AWG	0.05 - 0.08 mm ²	Yes
Size 16 (1.6mm), 13A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
SP14M2x	SS14M2x	16 - 14AWG	1.5 - 2.5 mm ²	Yes
SP16M2x	SS16M2x	18 - 16AWG	0.75 - 1.50 mm ²	Yes
SP20M2x	SS20M2x	22 - 20AWG	0.34 - 0.50 mm ²	Yes
SP24M2x	SS24M2x	26 - 24AWG	0.14 - 0.25 mm ²	Yes
Size 12 (2.5mm), 23A				
Part Number		Wire Range (AWG)	Wire Range (mm ²)	Use with Endcap
Male Pin	Female Socket			
SP12A1T	SS12A1T	14 - 12AWG	2.5 - 3.5 mm ²	Yes

Plating Options - Replace "x" in part number with appropriate Symbol			
Symbol	Plating	Symbol	Plating
T	Tin Plating Over Nickel	G5	Gold Plating (Thickness 5µ")
S	Silver Plating Over Nickel	G10	Gold Plating (Thickness 10µ")
F	Gold Flash Plating	G15	Gold Plating (Thickness 15µ")
		G30	Gold Plating (Thickness 30µ")

ecomate® Contacts - RADSOK® Crimp Barrel, Flathole Tail or Screw Tail

Part Number		Type	Contact Size (AWG)	Contact Size (mm)	Wire Range (AWG)	Wire Range (mm ²)	Amperage	Plating	Contact Material
Male Pin	Female Socket								
MP6ARS8S	MS6ARS8S	Crimp Barrel	8AWG	3.6 mm	8-6AWG	10 - 16 mm ²	86A	Silver	Copper Alloy
MP6ARS8S-10	MS6ARS8S-10	Crimp Barrel	8AWG	3.6 mm	8-6AWG	10 - 16 mm ²	45A	Silver	Copper Alloy
HP25BCS	HS25BCS	Crimp Barrel	4AWG	6 mm	4AWG	20 - 25 mm ²	120A	Silver	Copper Alloy
HPBHS	N/A	Flathole Tail	4AWG	6 mm	4AWG	20 - 25 mm ²	120A	Silver	Copper Alloy
HPBSS	N/A	Screw Tail	4AWG	6 mm	4AWG	20 - 25 mm ²	120A	Silver	Copper Alloy
HP25CCS	HS25CCS	Crimp Barrel	4AWG	8 mm	4AWG	20 - 25 mm ²	120A	Silver	Copper Alloy
HP35CCS	HS35CCS	Crimp Barrel	2AWG	8 mm	2AWG	30 - 35 mm ²	130A	Silver	Copper Alloy
HP50CCS	HS50CCS	Crimp Barrel	1AWG	8 mm	1AWG	40 - 50 mm ²	180A	Silver	Copper Alloy
HPCHS	N/A	Flathole Tail	1AWG	8 mm	1AWG	40 - 50 mm ²	180A	Silver	Copper Alloy
HPCSS	N/A	Screw Tail	1AWG	8 mm	1AWG	40 - 50 mm ²	180A	Silver	Copper Alloy
HP25DCS	HS25DCS	Crimp Barrel	4AWG	10 mm	4AWG	20 - 25 mm ²	120A	Silver	Copper Alloy
HP35DCS	HS35DCS	Crimp Barrel	2AWG	10 mm	2AWG	30 - 35 mm ²	130A	Silver	Copper Alloy
HP50DCS	HS50DCS	Crimp Barrel	1AWG	10 mm	1AWG	40 - 50 mm ²	180A	Silver	Copper Alloy
HP70DCS	HS70DCS	Crimp Barrel	2/0 AWG	10 mm	2/0 AWG	60 - 70 mm ²	250A	Silver	Copper Alloy
HP95DCS	HS95DCS	Crimp Barrel	3/0 AWG	10 mm	3/0 AWG	85 - 95 mm ²	300A	Silver	Copper Alloy
HPDHS	N/A	Flathole Tail	3/0 AWG	10 mm	3/0 AWG	85 - 95 mm ²	300A	Silver	Copper Alloy
HPDSS	N/A	Screw Tail	3/0 AWG	10 mm	3/0 AWG	85 - 95 mm ²	300A	Silver	Copper Alloy