



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: 10 - 95mm²
- Available in Size 8, 4, 2, 1/0-0, 2/0-0, 3/0-0 in Pin, Socket, Flat Tail and Screw Tail
- Current Rating Range: 86A 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 (mm²)	Use with Endcap
Pin	Socket			
MP18W23x	MS18W23x	20 - 18AWG	0.50 - 0.75 mm²	Yes
MP20W23x	MS20W23x	22 - 20AWG	0.34 - 0.50 mm²	Yes
MP24W23x	MS24W23x	26 - 24AWG	0.13 - 0.25 mm²	Yes
MP28W23x	MS28W23x	30 - 28AWG	0.05 - 0.08 mm²	Yes
Size 16 (1.6mm), 13A				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
MP14M23x	MS14M23x	16 - 14AWG	1.5 - 2.5 mm²	Yes
MP16M23x	MS16M23x	18 - 16AWG	0.75 - 1.50 mm²	Yes
MP20M23x	MS20M23x	22 - 20AWG	0.34 - 0.50 mm²	Yes
MP24M23x	MS24M23x	26 - 24AWG	0.14 - 0.25 mm²	Yes
Size 12 (2.5mm), 35A				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
MP10B23x	MS10B23x	12-10AWG	4.0 - 6.0 mm²	Yes
Size 8 (3.6mm), 45A - For use with 1403 Layout Only				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
MP10A23x-10	MS10A23x-10	8AWG	10mm²	No
MP10A23x-63	MS10A23x-63	12 - 10AWG	4.0 - 6.0 mm²	No
-	MS10A23x-63W	12 - 10AWG	4.0 - 6.0 mm²	Yes
MP10A23xL	-	12 - 10AWG	3.0 - 6.0 mm²	Yes
MP10A23x-25	MS10A23x-25	16 - 14AWG	1.5 - 2.5 mm²	No
-	MS10A23x-25W	16 - 14AWG	1.5 - 2.5 mm²	Yes
Size 8 (3.6mm), 45A - For use with 1604 Layout Only				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
MP10A23x	MS10S23x	12 - 10AWG	3.0 - 6.0 mm²	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 (mm²)	Use with Endcap
Pin	Socket			
SP20W2x	SS20W2x	22 - 20AWG	0.34 - 0.50 mm²	Yes
SP24W2x	SS24W2x	26 - 24AWG	0.13 - 0.25 mm²	Yes
SP28W2x	SS28W2x	30 - 28AWG	0.05 - 0.08 mm²	Yes
Size 16 (1.6mm), 13A				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
SP14M2x	SS14M2x	16 - 14AWG	1.5 - 2.5 mm²	Yes
SP16M2x	SS16M2x	18 - 16AWG	0.75 - 1.50 mm²	Yes
SP20W2x	SS20M2x	22 - 20AWG	0.34 - 0.50 mm²	Yes
SP24W2x	SS24W2x	26 - 24AWG	0.14 - 0.25 mm²	Yes
Size 12 (2.5mm), 23A				
Part Number		Wire Range (AWG)	Wire Range (mm²)	Use with Endcap
Pin	Socket			
SP12A1T	SS12A1T	14 - 12AWG	2.5 - 3.5 mm²	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, Flat Tail or Screw Tail

Part Number	Part Number	Contact Size (AWG)	Contact Size (mm)	Wire Range (AWG)	Wire Range (mm²)	Insert Arrangement	Type	Amperage
Pin	Socket							
MP6ARS8S	MS6ARS8S	8AWG	3.6 mm	8AWG	10 - 16 mm²	12-1 and 20-3	Crimp	86A
HP25BCS	HS25BCS	4AWG	6 mm	4AWG	20 - 25 mm²	14-1	Crimp	120A
HPBHS	N/A	4AWG	6 mm	N/A	N/A	14-1	Flat Tail	120A
HPBSS	N/A	4AWG	6 mm	N/A	N/A	14-1	Screw Tail	120A
HP25CCS	HS25CCS	1/0 AWG	8 mm	4AWG	20 - 25 mm²	16-1	Crimp	120A
HP35CCS	HS35CCS	1/0 AWG	8 mm	2AWG	30 - 35 mm²	16-1	Crimp	130A
HP50SSC	HS50CCS	1/0 AWG	8 mm	4AWG	20 - 25 mm²	16-1	Crimp	180A
HPCHS	N/A	1/0 AWG	8 mm	N/A	N/A	16-1	Flat Tail	180A
HPCSS	N/A	1/0 AWG	8 mm	N/A	N/A	16-1	Screw Tail	180A
HP25DCS	HS25DCS	3/0 AWG	10 mm	4AWG	20 - 25 mm²	20-1	Crimp	120A
HP35DCS	HS35DCS	3/0 AWG	10 mm	4AWG	30 - 35 mm²	20-1	Crimp	130A
HP50DCS	HS50DCS	3/0 AWG	10 mm	2AWG	40 - 50 mm²	20-1	Crimp	180A
HP70DCS	HS70DCS	3/0 AWG	10 mm	2/0 AWG	60 - 70 mm²	20-1	Crimp	250A
HP95DCS	HS95DCS	3/0 AWG	10 mm	3/0 AWG	85 - 95 mm²	20-1	Crimp	300A