



em eco|mate® Family Overview

The **ecomate® Family** of circular, multiway connectors provide an IP65-69k rating range (in mated condition) for indoor / outdoor industrial applications and feature robust, durable plastic or metal designs with either circular bayonet or rapid coupling systems. With a current rating range of 5 to 300A across the individual series, our ecomate® Family of products is perfect for a wide range of Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting markets.

ecomate® RM is available in an **ecomate® RSSM (Superior Seal) IP69K** option. **ecomate® RM** is also available in an **ecomate® RM High Amp** option, featuring **RADSOK®** Contact technology.







em eco|mate® C16

em eco|mate® RM

em eco|mate® AQUARIUS™

em eco|mate® Plastic

IP Rating		 	
Shell Sizes / Inserts	3 Shell Sizes / 11 Inserts	8 Shell Sizes / 33 Inserts (Includes RSSM and High Amp)	6 Shell Sizes / 28 Inserts
Approvals	VDE, UL and CSA	UL ECBT2 & ECBT8	UL ECBT2
Materials	Thermoplastic UL94 V-0	Body-Zinc Alloy; Coupling-Nickel Alum.	Thermoplastic UL94 V-0
Contacts	Stamped & Formed	Machined, Stamped & Formed, PCB (ecomate® RM (Rugged Metal) contacts are fully compatible with ecomate® Aquarius™ contacts, providing significantly increased product flexibility.)	S&F, Machined, Solder
Termination	Screw (Field Install), Crimp	Crimp, Solder	Screw (Field Install), Crimp, Solder
Coupling System	Circular Bayonet		Rapid Threading
Amperage	Up to 50A/900V	RM/RSSM: Up to 45A/600V High Amp: 86A to 300A/630V	Up to 45A/600V
Operating Temp	-40°C to +125°C	-40°C to +115°C	-40°C to +125°C

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

ecomate® RM/RSSM - 8 Shell Sizes/28 Insert Arrangements (For reference only)

* Optional Reduced Diameter Seals (Green) available.

Size 10	Size 10	Size 10	Size 10	Size 10	Size 12	Size 12	Size 12	Size 12
3 Pos 3 x 13A 500V	4 Pos 4 x 13A 500V	4 (2+2) Pos MIX 2 x 13A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V	6 Pos 6 x 5A or 6 x 7.5A 250V	6 (3+3) Pos MIX 3 x 13A (A,B,E) 3 x 5A or 3 x 7.5A (C,D,F) 500V	3 Pos 3 x 13A 500V	4(2+2) Pos MIX * 2 x 23A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V	4 Pos * 4 x 13A 500V	8 Pos * 8 x 13A 500V

Size 12	Size 14	Size 14	Size 14	Size 14	Size 14	Size 14	Size 14	Size 16
10 Pos * 10 x 5A or 10 x 7.5A 250V	3 Pos 3 x 45A 600V	4 Pos 4 x 23A 500V	4 (2+2) Pos MIX 2 x 23A (A,B) 2 x 13A (1,2) 500V	7 Pos * 7 x 13A 500V	8 Pos 8 x 13A 500V	12 Pos * 12 x 13A 500V	19 Pos 19 x 5A or 19 x 7.5A 250V	4 Pos 4 x 45A 600V

Size 16	Size 16	Size 16	Size 18	Size 18	Size 18	Size 20	Size 22	Size 22
9 (4+5) Pos MIX 4 x 23A (A-D) 5 x 13A (E-L) 500V	19 Pos * 19 x 13A 500V	26 Pos 26 x 5A or 26 x 7.5A 250V	8 Pos 8 x 23A 500V	23 Pos * 23 x 13A 500V	32 Pos 32 x 5A or 32 x 7.5A 250V	28 Pos * 28 x 13A 500V	35 Pos 35 x 13A 500V	38 Pos 38 x 13A 500V

Size 24
48 Pos 48 x 13A 500V

ecomate® RM High Amp (Includes RADSOK® Contact Technology) - 4 Shell Sizes/5 Insert Arrangements (For reference only)

Size 10	Size 14	Size 16	Size 20	Size 20
1 Pos 86A 630V	1 Pos 120A 630V	1 Pos 120A-180A 630V	1 Pos 120A-300A 630V	3 Pos 3 x 86A 630V



ecomate® Aquarius™ - 6 Shell Sizes/28 Insert Arrangements (For reference only)

Size 8	Size 8	Size 10	Size 10	Size 10	Size 10	Size 10	Size 12	Size 12
3 Pos 3 x 7A 250V	4 Pos 3 x 7A 250V	3 Pos 3 x 13A 500V	4 Pos 3 x 13A 500V	4(2+2)Pos 2 x 13A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V	6 Pos 6 x 5A or 6 x 7.5A 250V	6(3+3) Pos MIX 3 x 13A (A,B,E) 3 x 5A or 3 x 7.5A (C-F) 500V	3 Pos 3 x 13A 600V	4 Pos 4 x 13A 500V

Size 12	Size 12	Size 12	Size 14	Size 14	Size 14	Size 14	Size 14	Size 14
8 Pos 8 x 13A 500V	4(2+2) Pos 2 x 23A (A,B) 2 x 5A or 2 x 7.5A (1,2) 500V	10 Pos 10 x 5A or 10 x 7.5A 250V	3 Pos 3 x 45A 600V	7 Pos 7 x 13A 500V	8 Pos 8 x 13A 500V	12 Pos 12 x 13A 500V	4 Pos MIX 2 x 23A (A,B) 2 x 13A (1,2) 500V	4 Pos 4 x 23A 500V

Size 14	Size 16	Size 16	Size 16	Size 16	Size 18	Size 18	Size 18	Size 18
19 Pos 19 x 5A or 19 x 7.5A 250V	4 Pos 4 x 45A 600V	19 Pos 19 x 13A 500V	9 Pos MI x 4 x 23A (A-D) 5 x 13A (E-L) 500V	26 Pos 26 x 5A or 26 x 7.5A 250V	23 Pos 23 x 13A 500V	8 Pos 8 x 23A 500V	32 Pos 32 x 5A or 32 x 7.5A 250V	13 Pos MI x 10 x 13A(A-K) 3 x Coax.1A RG316/U(1-3) 500V

Size 18
8 Pos RJ45 8 x 1.5A 125V

ecomate® C16 - 3 Shell Sizes/11 Insert Arrangements (For reference only)

Size 1	Size 1	Size 1	Size 1	Size 1	Size 1	Size 2	Size 2	Size 2
2+PE Pos 3 x 36A 750V	3+PE Pos 4 x 23A 900V	8+PE Pos 8 x 12A 400V	12+3+PE Pos MIX 4 x 12A, 12 x 6A 4 x 320V, 12 x 24V	14+PE (11+4) Pos MIX 4 x 16A, 11 x 6A 100V	17+PE Pos 18 x 6A 100V	5+PE Pos 6 x 21A 400V	12+PE Pos MIX 9 x 11A, 4 x 21A 9 x 300V, 4 x 500V	14+PE Pos MIX 4 x 6A, 11 x 12A 400V

Size 2	Size L
19+PE Pos MIX 20 x 6A 250V	4+PE Pos 5 x 36A 600V

ecomate® Plastic - 1 Shell Size/4 Insert Arrangements (For reference only)

3+PE Pos 4 x 16A / 400V Standard	3+PE Pos 4 x 14A / 600V High Voltage	6+PE Pos 7 x 13A / 250V Standard	6+PE Pos 7 x 14A / 600V High Voltage

Available  **ecomate® Plastic** Assembled Solutions



Example PN:
CA0162C22302012



Example PN:
CA0161G113003

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

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