



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	1 Shell Size / 4 Inserts
Approvals	VDE, UL and CSA	Pending UL ECBT2 & ECBT8	UL ECBT2	VDE, SEV, UL Recognized, CSA
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	Up to 45A/500V (RADSOK® 86 to 300A)	Up to 45A/500V	10 to 20A
Operating Temp	-40°C to +125°C	-40°C to +115°C	-40°C to +125°C	-40°C to +125°C

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Standard products. Custom solutions
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ecomate® RM/RSSM - 8 Shell Sizes/28 Insert Arrangements (For reference only)

Size 10 3 Pos 13A/500V	Size 10 4 Pos 13A/300V	Size 10 4 Pos 13A/350V	Size 10 6 Pos 5A, 7A/150V	Size 10 6 (3+3) Pos 13A, 5A/500V	Size 12 3 Pos 13A/300V	Size 12 4(2+2) Pos 23A, 7.5A/350V	Size 12 4(2+2) Pos 23A, 13A/500V	Size 12 8 Pos 13A/300V
Size 12 10 Pos 5A, 7.5A/150V	Size 14 3 Pos 45A/600V	Size 14 4 Pos 23A/350V	Size 14 4 Pos 23A, 13A/350V	Size 14 7 Pos 13A/500V	Size 14 8 Pos 13A/300V	Size 14 12 Pos 13A/300V	Size 14 19 Pos 5A, 7.5A/150V	Size 16 4 Pos 45A/500V
Size 16 9 Pos 23A, 13A/250V	Size 16 19 Pos 13A/300V	Size 16 26 Pos 5A, 7.5A/150V	Size 18 8 Pos 23A/375V	Size 18 23 Pos 13A/300V	Size 18 32 Pos 5A, 7.5A/150V	Size 20 28 Pos 13A/300V	Size 22 35 Pos 13A/300V	Size 22 38 Pos 13A/300V
Size 24 48 Pos 13A/300V								

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

Size 10 1 Pos 86A/630V	Size 14 1 Pos 120A/630V	Size 16 1 Pos 120A-180A/630V	Size 20 1 Pos 120A-300A/630V	Size 20 3 Pos 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 7A/250V	4 Pos 7A/250V	3 Pos 13A/500V	4 Pos 13A/500V	4 Pos 13A, 7.5A/500V	6 Pos 5A, 7A/250V	Size 10 6 (3+3) Pos 13A, 5A/500V	3 Pos 13A/600V	4(2+2) Pos 13A/500V

Size 12	Size 12	Size 12	Size 14	Size 14	Size 14	Size 14	Size 14	Size 14
8 Pos 13A 500V	4(2+2) Pos 23A, 7.5A/350V	10 Pos 5A, 7.5A/250V	3 Pos 45A/600V	7 Pos 13A/500V	8 Pos 13A/500V	12 Pos 13A/500V	4 Pos 23A, 13A/500V	4 Pos 23A/500V

Size 14	Size 16	Size 16	Size 16	Size 16	Size 18	Size 18	Size 18	Size 18
19 Pos 5A, 7.5A/250V	4 Pos 45A/500V	19 Pos 13A/500V	9 Pos 23A & 13A/350V	26 Pos 5A, 7.5A/250V	23 Pos 13A/500V	8 Pos 23A/500V	32 Pos 5A, 7.5A/250V	13 Pos (10)#16(Ø1.6), 13A, 500V (3)Coax RG316/U, 1A, 500V

Size 18
8 Pos RJ45 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 36A/750V	3+PE Pos 23A/900V	8+PE Pos 10A, 12A/400V	12+3+PE Pos 12A, 6A/320V	14+PE Pos 16A, 6A/100V	17+PE Pos 5A, 6A/100V, 250V	5+PE Pos 16A, 21A/400V	12+PE Pos 21A, 11A/300V	14+PE Pos 6A, 12A/400V

Size 2	Size L
19+PE Pos 5A, 6A/250V	4+PE Pos 36A/600V

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

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