



# 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	Pending 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 ( <b>ecomate® RM</b> (Rugged Metal) contacts are fully compatible with <b>ecomate® Aquarius™</b> 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
Operating Temp	-40°C to +125°C	-40°C to +115°C	-40°C to +125°C

em eco|mate® Family



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

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

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

<b>Size 10</b> 1 Pos 86A/630V	<b>Size 14</b> 1 Pos 120A/630V	<b>Size 16</b> 1 Pos 120A-180A/630V	<b>Size 20</b> 1 Pos 120A-300A/630V	<b>Size 20</b> 3 Pos 86A/630V



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

<b>Size 8</b>	<b>Size 8</b>	<b>Size 10</b>	<b>Size 10</b>	<b>Size 10</b>	<b>Size 10</b>	<b>Size 10</b>	<b>Size 12</b>	<b>Size 12</b>
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
<b>Size 12</b>	<b>Size 12</b>	<b>Size 12</b>	<b>Size 14</b>	<b>Size 14</b>	<b>Size 14</b>	<b>Size 14</b>	<b>Size 14</b>	<b>Size 14</b>
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
<b>Size 14</b>	<b>Size 16</b>	<b>Size 16</b>	<b>Size 16</b>	<b>Size 16</b>	<b>Size 18</b>	<b>Size 18</b>	<b>Size 18</b>	<b>Size 18</b>
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
<b>Size 18</b>								
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](mailto:csr@amphenol-sine.com)

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