



em eco|mate® RM

Circular, Rugged Metal Connectors for Industrial Applications



Available in 8 Shell Sizes and 28 Insert Arrangements

Amphenol Sine Systems' **ecomate® RM (Rugged Metal) Series** of circular, metal connectors provide an IP67 rating (in mated condition) for industrial applications, all in a sealed connector system. With a circular bayonet coupling system and a maximum current rating of 45A/600V, the **ecomate® RM (Rugged Metal) Series** is perfect for Indoor/Outdoor applications in Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting markets. Design is based on MIL-17/ VSHFL FDWLRQV \$OO HFRPDWH 50 SURGXFWV DUH FRPSDWLEOH ZLWK RWKHU LQGXVWU\ VWDQG DUG PDW & RQWDFWV DUH DYDLODEOH LQ ODFKLQHG RU 3% ORRVH SLHFH EDJJHG RU 6WDPSHG)RUPHG UHHOV RSWL Fathom Lock, and RSSM series.

Also available in an **ecomate® RM High Amperage** RSWLRQ ZLWK XS WR **3000A** maximum current rating.

Key Features

- IP67 rated (in mated condition)
- Circular Bayonet Coupling System
- Machined, Stamped & Formed, and PCB Contacts
- MIL-DTL-26482-based Design
- EMI/RFI Shielding Capabilities
- Kits Available



Potential Applications: Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting markets.

HFRPDWH 50 6SHFL FDWLRQV
(See individual datasheets for exact specs)

IP Rating	IP67 (in mated condition)
Max. Current Amperage	Up to 45A
Max. Voltage Rating (AC/DC)	600V
Operating Temperature	-40°C to +125°C
Coupling System	Circular Bayonet
Housing Body	Body-Zinc Alloy; Coupling-Nickel Alum.
Contact Types	Machined, Stamped & Formed, PCB
Contact Termination	Crimp, Solder
Contact Material	Copper Alloy (Gold, Tin & Silver Plating are available)
Wire Range	20 - 28 AWG (0.5 - 0.8 mm ²)
Sealing Material	Nitrile Buna Rubber/Silicone Rubber
Min. Mating Cycles	>500

Shielding	EMI/RFI Available
Flammability Rating	UL94-VO
Fluid Resistance	Gas, oil, mineral oil, acid bath, basic bath
Test Voltage Rating	1500V/2000V
Overvoltage Category	III
Strain Relief Clamp Range	1.5 - 14.0mm
Insulation Resistance	5000 megohms
Thermal Shock	No cracking, chipping or leaking after 20 test cycles from -55°C to 125°C
RoHS Compliant	RoHS ALL materials meet the requirements of the European Union (EU) RoHS Directive
Approvals	UL ECBT2 & ECBT8

ecomate® RM - Shell Sizes & Insert Arrangements

)URQW YLHZ RI SLQ LQVHUW UH DU YLHZ RI VRFNHW LQVHUW VKRZQ IRU UHIHUHQFH RQO\

Shell Size 10					Shell Size 12			
3RV [6L]H PP								

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Circular, Rugged Metal, High Amperage Connectors for Industrial Applications

Available in 4 Shell Sizes and 5 Insert Arrangements

Amphenol Sine Systems' **ecomate® RM High Amperage Series** RI FRQQHFWRUV PDWFKHV DOO WKH VSHFL FDWLRQV RI WKH HFRPDWH 5 KLJK DPSHUDJH FRQQHFWRU RSWLRQV LQ DQG SROH **ADSOK® Solid Technology** JKBHQRV I\$DQ& ULCJ

Key Features

- IP67 rated (in mated condition)
- Circular Bayonet Coupling System
- PP PP & RQWDFW 6LJHV

Potential Applications: Factory Automation, Industrial, Heavy Equipment, Heavy Duty, Transportation, and Entertainment/Lighting markets.

ecomate® RM High Amp - Shell Sizes & Insert Arrangements

)URQW YLHZ RI SLQ LQVHUW UH DU YLHZ RI VRFNHW LQVHUW VKRZQ IRU UHIHUHQFH RQO\

Shell Size 12	Shell Size 14	Shell Size 16	Shell Size 20	
1 Pos [P/P \$ 9	1 Pos 1 x 6.0mm ² \$ 9	1 Pos 1 x 8.0mm ² \$ \$ 9	1 Pos 1 x 10.0mm ² \$ \$ 9	3 RV [P/P \$ 9
				