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Solutions Guide

Product Line Overview



Value-Add Custom Connectors and Cable Assemblies

Amphenol Sine Systems offers custom molded cable assembly solutions across all our standard product lines. If one of our standard products doesn't fit your specific needs, our Engineers will work with you to custom design a solution specific to your application. Whether you are looking for a customized connector solution, a complete turn-key cable assembly solution, custom wiring to simplify machine assembly or a specific mold color, Amphenol Sine Systems is your one source for proven, reliable and innovative results.





Series	AHD Series™	AHDP Dura Mate™	AT Series™	AT Board Lock Series™	ATM Series™
Product Image					
Typical Applications	Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy	Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy	Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy	Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy	Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy
Coupling System	Bayonet	Twist Lock & Push-On	Integral Latch	Intergral Latch	Integral Latch
Contact Positions	7-31	7-47	2-13	2-13	2-13
Housing Material	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic
AWG	10-20 AWG	7 thru 20 AWG	14-20 AWG	12 & 16 AWG	16 to 22 AWG
Contact Current Ratings	13A	7.5-80A	13A	13A	7.5A
IP Ratings	IP67 mated	IP68/69K mated	IP67 mated	IP67 mated	IP67 mated
Mating Cycles	100+	100+	100+	100+	100+
Contact Types	Machined, Stamped & Formed	Machined, Stamped & Formed	Machined, Stamped & Formed	Machined, "PC Tail"	Machined, Stamped & Formed
Series	C16-3 Circular	C16-L Circular	eco mate TM Aquarius TM Waterproof	eco mate™ Plastic Circular	eco mate RM TM Circular
Product Image					
Typical Applications	Industrial Automation, On-Machine, Process Control, Alternative Energy, Traffic Control	Alternative Energy, Industrial Automation, On-Machine, Process Control	Alternative Energy, Off- Road, Instrumentation, Building Automation, Telecom, Traffic Control	Alternative Energy, Industrial Automation, On-Machine, Process Control	Motion Control, Industrial Automation, On-Machine, Robotics, Rail transit
Coupling System	Quick Locking	Quick Locking	Bayonet Coupling	Threaded	Metal Bayonet Locking
Contact Positions	3-20	5	3-32	4 & 7	3-48
Housing Material	Plastic	Plastic	Plastic	Plastic	Metal
AWG	10-28 AWG	8-14 AWG	12-28 AWG	14-26 AWG	14 to 30 AWG
Contact Current Ratings	5 to 40A	50A	Up to 630V/180A	10 to 20A	7 to 45A
IP Ratings	IP65 mated	IP65 mated	IP68/69K mated	IP67 mated	IP67 mated
Mating Cycles	500+	500+	500+	500+	250+
Contact Types	Screw and Crimp Termination	Screw	Machined, Stamped & Formed, PC Tail	Screw, Solder and Crimp Termination	Machined, Stamped & Formed, PC Tail

anufacturers of interconnect products in the world. Amphenol designs, manufactures and markets electrical, electronic and fiber optic connoresence in high growth markets including Automotive, Broadband Communications, Commercial Aerospace, Industrial, Information Technology

ATP Series™	Hydro Net™ Multi-Hub	Magna Mate™	Multi Mate™ Distributed Power Sy	stem Panel Mate™	C091 A/D Circulo	ar
Heavy Equipment, Transportation, Marine, Diagnostic, Alternative Energy	Marine, NMEA Networks	Heavy Equipment, Transportation, Marine Battery Storage, Alternative Energy	Heavy Equipmen e, Transportation, Marine, Diagnosti Alternative Energ	Transportation, ic, Marine, Diagnost	, Motion Control, Pro- ic, Control Equipment, W	cess
Integral Latch	Intergral Latch & Threaded (M12)	Intergral Latch	Intergral Latch	Intergral Latch	Metal Screw	
2-4	4-5	4	2-4	2-13	2-14	
Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Thermoplastic	Metal	
12 to 14 AWG	16 & 20 AWG	8 thru 12 AWG	12 & 20 AWG	12 to 20 AWG	18 -28 AWG	
25A	13 to 25A	180 A	13 to 25A	13 to 25A	Up to 300V/5A	
IP67 mated	IP67 mated	IP67 mated	IP67 mated	IP67 mated	IP40/67 mated	
100+	100+	100+	100+	100+	Up to 1000	
Machined, Stamped & Formed	Machined, Stamped & Formed	Machined, Stamped & Formed	Machined, Stamped & Forme	Machined, ed Stamped & Form	Machined, ed Stamped & Forme	ed
eco∣mate RTHP™ Circular	RADSOK® Ground Mate™	heavy mate E/EE Rectangular	heavy mate M Rectangular	M23 Circular	M23 Hybrid DNC Circular	Ma
Motion Control, Industrial Automation, On-Machine, Robotics	Battery Storage, Heavy Equipment, Industrial Automation, On-Machine	Industrial Automation, On-Machine, Rail Transit, Process Control, Robotics	Industrial Automation, On-Machine, Rail Transit, Process Control, Robotics	Motion Control, Industrial Automation, On-Machine, Packaging, Alternative Energy	Motion Control, Industrial Automation, On-Machine, Packaging, Alternative Energy	Indu On-M Allen
Metal Bayonet Locking	Press-fit	Quick Latching	Quick Latching	Metal Threaded & Quick Locking	Metal Threaded	M
1-3	î	6-48	1-140	6-19	2 PWR + PE + Signal + 4 Ethernet	
Metal	Metal	Metal	Metal	Metal	Metal	
8 to 0/0 AWG	8 to 12 AWG	10 to 20 AWG	28 to 000 AWG	12 to 28 AWG	14 to 28 AWG	
86 to 300A	18 0A	10 to 22A	10 to 300A	7 to 30A	0.5 to 18A	
IP67 mated	Up to IP65 mated	IP65, IP67 & IP68 mated	IP65, IP67 & IP68 mated	IP67 mated	IP67 mated	
250+	1,000+	500+	500+	500+	500+	
Machined RADSOK®	Machined RADSOK®	Crimp (Turned and Stamped & Formed), Screw, Push-In, Cage Clamp	Crimp (Turned and Stamped & Formed)	Machined	Machined	

C091 B Circular	C091 D+ Circular	sensor mate M12	sensor mate M12 Ethernet	sensor mate M12 X-Code	miniBOSS™ M22
Industrial Automation Motion Control, Proce Control Equipment Wireless Infrastructur	ess Motion Control, Process Control Equipment,	Industrial Automation, On-Machine,Marine, Process Control, Robotic Motion Control	On-Machine,	On-Machine,	Industrial Automation, On-Machine, Process Control, Robotics
Bayonet	Metal Screw	Plastic & Metal Threade	d Metal Threaded	Metal Threaded	Metal Threaded
2-14	2-14	3 -8	4	8	2 - 6
Plastic	Metal	Overmolded	Overmolded	Overmolded	Overmolded
18-28 AWG	18 -28 AWG	18 to 24 AWG	24 AWG	26 AWG	12 to 18 AWG
Up to 300V/5A	Up to 300V/5A	2 to 12A	Cat 5e	Cat 6a	8 to 20A
IP40 mated	IP68 mated	IP67 & IP68 mated	IP67 mated	IP67 mated	IP67 mated
Up to 1000	Up to 1000	500+	500+	500+	500+
Machined, Stamped & Formed	Machined, Stamped & Formed	Machined, S&F, Machined (Field Installable)	Machined	Machined	Machined
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123 Motion Cables	M40 Circular	PowerBOSSlite™ M35	PowerBOSS™ M40 with CheckMate™	VersaBOSS™ VFD Cables	Smart Card C700
A23 Motion Cables	M40 Circular	PowerBOSSlite™ M35		VersaBOSS™ VFD Cables	Smart Card C700
Motion Cables Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy	PowerBOSSlite™ M35 Industrial Automation, On-Machine, Process Control, Robotics		VersaBOSS™ VFD Cables Industrial Automation, On-Machine, Process Control, Robotics	Smart Card C700 Point of Sales Terminals, Digital Decoders, Vending
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series	Motion Control, Industrial Automation, On-Machine. Packaging,	Industrial Automation, On-Machine,	with CheckMate™ Industrial Automation, On-Machine,	Industrial Automation, On-Machine,	Point of Sales Terminals,
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Metal Threaded &	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded &	Industrial Automation, On-Machine, Process Control, Robotics	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics	Industrial Automation, On-Machine, Process Control, Robotics	Point of Sales Terminals, Digital Decoders, Vending
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Wetal Threaded & Quick Locking	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded & Quick Locking	Industrial Automation, On-Machine, Process Control, Robotics Metal Threaded	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics Metal Quick Connect	Industrial Automation, On-Machine, Process Control, Robotics Metal Bayonet Locking	Point of Sales Terminals, Digital Decoders, Vending Push, Push-Pull, Push-Push, Pushmatic
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Metal Threaded & Quick Locking 6-19	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded & Quick Locking 6 -8	Industrial Automation, On-Machine, Process Control, Robotics Metal Threaded 3 & 4	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics Metal Quick Connect	Industrial Automation, On-Machine, Process Control, Robotics Metal Bayonet Locking	Point of Sales Terminals, Digital Decoders, Vending Push, Push-Pull, Push-Push, Pushmatic 6 to 20
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Wetal Threaded & Quick Locking 6-19 Metal	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded & Quick Locking 6 -8 Metal	Industrial Automation, On-Machine, Process Control, Robotics Metal Threaded 3 & 4 Overmolded	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics Metal Quick Connect 6 Overmolded	Industrial Automation, On-Machine, Process Control, Robotics Metal Bayonet Locking 9 Overmolded	Point of Sales Terminals, Digital Decoders, Vending Push, Push-Pull, Push-Push, Pushmatic 6 to 20 Metal & Plastic
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Metal Threaded & Quick Locking 6-19 Metal 12 to 28 AWG	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded & Quick Locking 6 -8 Metal 8 to 18 AWG	Industrial Automation, On-Machine, Process Control, Robotics Metal Threaded 3 & 4 Overmolded 10 AWG	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics Metal Quick Connect 6 Overmolded 8 & 10 AWG	Industrial Automation, On-Machine, Process Control, Robotics Metal Bayonet Locking 9 Overmolded 12 to 18 AWG	Point of Sales Terminals, Digital Decoders, Vending Push, Push-Pull, Push-Push, Pushmatic 6 to 20 Metal & Plastic 28 AWG
Motion Control, dustrial Automation, Machine, Packaging, n-Bradley 2090 Series Wetal Threaded & Quick Locking 6-19 Metal 12 to 28 AWG 7 to 30A	Motion Control, Industrial Automation, On-Machine. Packaging, Alternative Energy Metal Threaded & Quick Locking 6 -8 Metal 8 to 18 AWG 30 to 75A	Industrial Automation, On-Machine, Process Control, Robotics Metal Threaded 3 & 4 Overmolded 10 AWG 25 & 30A	with CheckMate™ Industrial Automation, On-Machine, Process Control, Robotics Metal Quick Connect 6 Overmolded 8 & 10 AWG 25 & 32A	Industrial Automation, On-Machine, Process Control, Robotics Metal Bayonet Locking 9 Overmolded 12 to 18 AWG 20A	Point of Sales Terminals, Digital Decoders, Vending Push, Push-Pull, Push-Push, Pushmatic 6 to 20 Metal & Plastic 28 AWG N/A

Audio & Lighting Connectors

Amphenol Audio, branded as Entertainment@Amphenol, headquartered in Melbourne, Australia, and represented in North America by Amphenol Sine Systems, provides an extensive range of professional connector and cabling solutions specifically for the Audio, Lighting, Broadcast and Entertainment markets. A broad range of products are offered including XLR, Phone, Speaker and Power Plugs, Circular and Rectangular Multipins, Ethernet Data and Coaxial connectors.



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