

**INDUSTRIAL@AMPHENOL**  
TRUSTED GLOBALLY

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Amphenol Tuchel Industrial, Germany

**ENTERTAINMENT@AMPHENOL**  
TRUSTED GLOBALLY

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# 2018/19 New Product Introduction Supplement

**Amphenol**  
INDUSTRIAL PRODUCTS GROUP

## 2018/19 New Product Introduction Supplement

Image	Description	Details
	<b>AHD AHD Series™</b> J1939 Type 1 & 2 On-Vehicle Data Connectors	J1939 became the accepted industry standard and the choice for vehicle diagnostic and data communication for commercial heavy-duty, off-highway, truck, bus, marine propulsion, power generation, industrial pumping, construction, and material handling machines. It provides diagnostic data such as vehicle engine speed, temperature, oil temperature, exhaust emissions, and other customizable options.
	<b>AHD AHD Series™</b> Strain Relief 6 & 9 Pin Available: 10/2018	AHD Series™ connectors were developed in response to the overwhelming need for an economic alternative to today's existing diagnostic product options, ideal for any situation where either controlled and/or uncontrolled environmental conditions exist.
	<b>DM DuraMate™ AHDM</b> Rugged Metal Connectors Available: 12/2018	The Duramate™ AHDM environmentally-sealed multi-pin heavy duty metal circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.
	<b>DM DuraMate™ AHDP ISOBUS</b> ISOBUS IBC Connectors	The DuraMate™ AHDP BUS Connector for CAN systems enables ISOBUS integrated communication while maintaining compatibility with ISO 11783-2 for connection between tractor and implement. The ergonomic "Plug & Play" design is easy to assemble with standard tools and provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications. Rated IP69K.
	<b>DM DuraMate™ AHDP</b> Shell Size 18	The Duramate™ AHDP environmentally-sealed multi-pin heavy duty thermoplastic circular connector series provides an economical quick-connect bayonet locking system manufactured to withstand the challenges and complexities of harsh environment off-road applications.
	<b>DM DuraMate™ AHDP</b> <b>DM DuraMate™ AHDM</b> 90° Backshell	Our common sense Wide Thread Adapter (WTA) design in the DuraMate™ AHDP/AHDM Series allows for multiple backshell options that our competition simply fails to offer! Now available in 90° snap-over conduit adapter option.
	<b>AT AT Series™</b> CAN Terminators Available: 01/2019	CAN (Control Area Network) provides an inexpensive, durable network that helps multiple CAN devices communicate with one another. This decreases overall cost and weight.
	<b>PM PanelMate™ AT</b> 4 Hole Panelmounts Available: 12/2018	PanelMate™ series combines flange mounting options with the proven reliability of the AT/ATP Series™ environmentally-sealed thermoplastic connection system.
	<b>SP Structure+™ AT</b> Enhanced Over-Molding	Structure+™ AT added connector structure results in enhanced connection integrity that is an essential component for connecting cable in harsh environments. These connectors are engineered one-piece solid body construction and are specifically designed for cable assembly operations requiring custom molding or shrink tube requirements.
	<b>AT AT Series™</b> Connector Position Assurance Clips	AT Series™ Connector Position Assurance Clips are used to protect against accidental un-mating.
	<b>BL BoardLock™ AT</b> <b>BL BoardLock™ ATM</b> AT13/15 & ATM13/15 Available: 12/2018	The BoardLock™ AT13/15 and ATM13/15 series is a flanged wire-to-board environmentally-sealed thermoplastic connection system. Perfect for power or data signal applications, BoardLock™ features a unique design which is compact, low-profile, lightweight and delivers proven durability in off-road and harsh environments.
	<b>ARMORIPX™</b> Circuit Board Enclosures Available: 12/2018	The ruggedly designed, environmentally-sealed Armor IPX™ circuit board enclosure, designed for various electromechanical interfaces, includes through-hole mounting flanges. Our enclosures are intermateable with standard industry AT/DT and ATM/DTM headers.

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	<b>HB HYPERSBUS™</b> Bussed Connectors	<p>HYPERBUS™ Receptacle Connectors are a high-performance, cost-effective solution used in a variety of interconnect applications where a common "bussed" electrical pathway is required. Intermateable with standard AT Series™ Plugs as well as industry standard connectors.</p> <ul style="list-style-type: none"> <li>• Wedgelocks Included</li> <li>• Available in 2, 4, 6, 8 and 12 Receptacle housings.</li> <li>• Integrated Internal Bus</li> </ul>
	<b>AT ATSeries™</b> LED 12V/24V Diode Protected Available: 12/2018	<ul style="list-style-type: none"> <li>• Integrated PCB Board LED</li> <li>• Field Serviceable/Cost-effective</li> <li>• Quick Visual Diagnosis - reduces troubleshooting time</li> </ul> <ul style="list-style-type: none"> <li>• Environmentally-sealed for harsh environments</li> <li>• Plug and Play - assembled the same as a standard connector</li> <li>• Integrated 12V or 24V LED Option</li> </ul>
	<b>MM MagnaMate™ ATHP QL</b> Single Pole High-Voltage Connector Available: 01/2019	<p>The MagnaMate™ ATHP QL (Quick Lok) connectors compact form factor deliver loads of 130A or 180A utilizing RADSOK® contact technology for cable outer diameters up to 15.2mm.</p> <ul style="list-style-type: none"> <li>• Current Capacity: up to 180A</li> <li>• Voltage: 1000V AC/DC</li> <li>• Temperature Range: -55C TO + 125C</li> <li>• Sealing Protection: IP67 (Mated condition)</li> </ul>
	<b>ATV ATVSeries™</b> 18 Position	<p>The ATV Series™ is a compact 18 pos. sealed flange design based on the AT Series™ featuring built-in contact seals and an interfacial seal protecting mated connectors. Perfectly suited for harsh environments, on/off highway, marine, industrial, and agriculture applications.</p> <ul style="list-style-type: none"> <li>• Accepts contact size 16 (13A)/14-22 AWG</li> <li>• 18 Position cavity arrangement</li> <li>• Flange Mount or In-line (Flangeless) Capability</li> <li>• Integrated latch for mating</li> <li>• Integrated wedgelock confirms contact alignment and retention</li> </ul>
	<b>AISG</b> C091 RET/AISG Cable Assemblies	<p>With over 20 million sold in more than 100 countries around the world since originating the AISG connector in 2002, Amphenol is the worldwide leader in AISG connector and cable assemblies for the wireless infrastructure industry.</p> <ul style="list-style-type: none"> <li>• M16 size Plug and Receptacle Assemblies</li> <li>• 8 Pos crimp or solder available</li> <li>• IP67/69K (in mated condition)</li> <li>• Metal coupling system</li> <li>• Screw locking according to IEC 61076-2-106</li> <li>• UL registered under file number E63093 UL</li> </ul>
	<b>em eco mate® AQUARIUS™</b> Endcaps Available: 12/2018	<p>High-temperature silicone sealing provides advanced IP-rated performance in submerged applications. These sealing benefits are applicable to In-Line, Jam-Nut, Square Flange &amp; standard eco mate® Aquarius™ Plugs.</p> <ul style="list-style-type: none"> <li>• Compatible with eco mate® RM product line</li> <li>• IP67/69K (in mated condition)</li> <li>• Suitable for indoor/outdoor applications</li> <li>• Mixed Power and Signal Layouts</li> <li>• Corrosion Resistant</li> <li>• UL ECBT2 Certified</li> </ul>
	<b>em eco mate® AQUARIUS™</b> Inline Receptacles Available: 12/2018	<p>Expands existing eco mate® Aquarius™ product line by introducing a compact, flangeless connector for ease-of-use in difficult to access cable-tray/raceway applications for installation engineers.</p> <ul style="list-style-type: none"> <li>• Available in Shell Sizes 8, 10, 12, 14, 16 and 18</li> <li>• IP67/69K (mated)</li> <li>• Mixed Power and Signal Layouts</li> <li>• Allows cable-to-cable connectivity</li> <li>• Corrosion-resistant thermoplastic material</li> <li>• Bayonet Rapid Coupling System</li> </ul>
	<b>em eco mate® Plastic</b> Overmolded Cable Assemblies	<ul style="list-style-type: none"> <li>• Cable and Receptacle assemblies available in standard lengths (meters)</li> <li>• Secure for outdoor and indoor applications.</li> <li>• Rapid Screw Locking Coupling System</li> <li>• Rugged plastic connector housing</li> <li>• High flexibility cable</li> </ul> <ul style="list-style-type: none"> <li>• IP65 (unmated), IP68 (mated)</li> <li>• Resistant to a wide range of chemical fluids</li> <li>• Mating Cycles: 500</li> <li>• UV &amp; corrosion resistant</li> <li>• RoHS compliant</li> </ul>
	<b>em eco mate® RM</b> Superior Seal (SS) Kits Available: 12/2018	<ul style="list-style-type: none"> <li>• IP69K (mated)</li> <li>• Enhanced sealing in metal shell</li> <li>• Available in a wide variety of cord grip options</li> <li>• Suitable for Indoor and Outdoor Applications</li> <li>• Design based on MIL-DTL-26482</li> </ul> <ul style="list-style-type: none"> <li>• EMI/RMI Shielding capabilities</li> <li>• Op Temp: -40°C to +125°C</li> <li>• 500 Mating Cycles</li> <li>• High Density Contact Arrangements Available</li> <li>• UL ECBT2 Certified</li> </ul>
	<b>PB POWERBOSS™</b> Multi-Drop Cable Assemblies	<ul style="list-style-type: none"> <li>• Ideal for small motor applications</li> <li>• Multiple tee configurations</li> <li>• 2 to 8 Pos</li> <li>• 12 and 18AWG conductors</li> <li>• Options for combination of power and signal wires in one cable</li> </ul> <ul style="list-style-type: none"> <li>• Up to 30A, 600V rated</li> <li>• Tray rated-exposed run PVC cable</li> <li>• IEC IP67 protection</li> <li>• Multi-Drop Cable Assemblies can be configured into eco mate®, M Series and A Series</li> </ul>

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	<b>PB POWERBOSS™ M29</b> Cable Assemblies Available: 10/2018	<ul style="list-style-type: none"> <li>• 3 Phase Power Molded Assemblies</li> <li>• Shielded/TPE Jacketed Motor Cables</li> <li>• UL Rated UL2237 (25A)/UL2238 (29A) as an assembly</li> <li>• 4 Conductor, 12AWG, Rated 25A/29A, 600V</li> <li>• Multiple standard lengths available</li> </ul> <ul style="list-style-type: none"> <li>• Environmental Rating: IP68 (24Hrs @ 1 Meter)</li> <li>• Male/Female Plug and Receptacle Assemblies</li> <li>• Straight or Angled Overmolded Plug Ends</li> <li>• Ideal for VFD Drive and Motor applications</li> </ul>
	<b>MG MOTIONGRADE™</b> DSL Cable Assemblies	<ul style="list-style-type: none"> <li>• Compatible with the Allen-Bradley Kinetix 5500 Drive systems</li> <li>• Quicker installation resulting in reduced install time</li> <li>• Reduction in SKU's results in lower costs</li> </ul> <ul style="list-style-type: none"> <li>• Ease of use (our quick-lock CheckMate™ connectors allow fast connections)</li> <li>• cULus AWM Style , 1000V, 80c FT1</li> <li>• Meets European Directives 2002/95/CE RoHS and 2002/96/CE WEEE</li> </ul>
	<b>MG MOTIONGRADE™</b> M23 Hybrid Connectors	<p>The Motiongrade™ M23 Hybrid Series is ideally suited for applications where Power, Signal and Data are necessary. Applications: Robotics, machine tool, and any other industrial application requiring a rugged compact delivery system.</p> <ul style="list-style-type: none"> <li>• All in one design that combines Power, Data and Signal</li> <li>• 8 Position: 2 Power+PE, 1 Signal+4 Quad Ethernet Element</li> <li>• 15 Position: 4 Power + PE, 6 Signal + 4 Quad Ethernet Element</li> <li>• Faster Assembly, Compact Design</li> <li>• Vibration and shock tested up to 20g (vibration) and 50g ( shock) in 3 axis</li> </ul>
	<b>AD Amphedante™</b> Input Adapters Available: 02/2019	<ul style="list-style-type: none"> <li>• Analog Input Adapters in 1 or 2 channel</li> <li>• Indestructible, crush &amp; tamper-proof over molded module design with RJ45 connector</li> <li>• "Best-in Class" Amphenol "AX Series" (1) or (2) F XLR connectors</li> <li>• Sample rates of 44.1, 48 &amp; 96 kHz</li> </ul> <ul style="list-style-type: none"> <li>• Dante Audio over IP and AES67 RTP transport formats</li> <li>• Power over Ethernet (Class 1 802.3af PoE) support</li> <li>• Impedance 20k Ohm balanced, 10k Ohm unbalanced; SNR &gt;100dB; THD &lt; 0.01% at +4dBu</li> </ul>
	<b>AD Amphedante™ AES3/EBU</b> Available: 02/2019	<ul style="list-style-type: none"> <li>• Bi-directional I/O 2 In, 2 Out AES3 &amp; European Broadcast Union compliant</li> <li>• Indestructible, crush &amp; tamper-proof over molded module design with RJ45 connector</li> <li>• "Best-in Class" Amphenol "AX Series" (1) M &amp; (1) F XLR connectors</li> </ul> <ul style="list-style-type: none"> <li>• Impedance 110 Ohm balanced; SNR &gt;135dB</li> <li>• Sample rates of 44.1, 48 &amp; 96 kHz</li> <li>• Dante Audio over IP and AES67 RTP transport formats</li> <li>• Power over Ethernet (Class 1 802.3af PoE) support</li> </ul>
	<b>AD Amphedante™ USB</b> Available: 02/2019	<ul style="list-style-type: none"> <li>• Audio drop-point for laptops (or other mobile devices with a USB Adapter) in conference settings</li> <li>• No reconfiguration of your Dante network software needed for different computers</li> <li>• USB "Type A" I/O 2 In, 2 Out</li> <li>• "Plug-n-Play" (record or play) 2-channel audio from any PC or Mac</li> </ul> <ul style="list-style-type: none"> <li>• Indestructible, crush &amp; tamper-proof overmolded module design with RJ45 connector</li> <li>• Sample rate of 48 kHz only</li> <li>• Dante Audio over IP and AES67 RTP transport formats</li> <li>• Power over Ethernet (Class 1 802.3af PoE) support or USB power</li> </ul>
	<b>AX MARK</b> Color Coding Sleeves for XLR Connectors	<ul style="list-style-type: none"> <li>• Available in 3, 4 or 5 contact (M or F) configurations with Satin Nickel or Back Shell Finish and either standard or Gold plated contacts</li> <li>• Choice of 10 colors (Black, Brown, Red, Orange, Yellow, Green, Blue, Purple, Grey and White)</li> <li>• Sleeves can be purchased to retrofit to existing (wired or unwired) AX Series connectors</li> <li>• Custom factory marking available with adequate volume requirements. Consult factory.</li> </ul>
	<b>AC Series</b> Data Connector USB / HDMI	<ul style="list-style-type: none"> <li>• Feedthrough adaptors</li> <li>• USB 3 Type A to USB 3 Type A</li> </ul> <ul style="list-style-type: none"> <li>• HDMI to HDMI</li> <li>• Optional Nickel or Black Shell Finish</li> </ul>
	<b>Q Series</b> 1/4" Plugs	<ul style="list-style-type: none"> <li>• Mono (TS) or Stereo (TRS)</li> <li>• Slimline 11mm design allows for closer nesting of jacks</li> <li>• Quick/Easy assembly due to chuck style cable clamp</li> <li>• Nickel or Gold contact plating options</li> <li>• Satin Nickel or Black shell finish options</li> </ul> <ul style="list-style-type: none"> <li>• Molded cable gland back nut provides superior bend radius relief</li> <li>• Optional Bulk Pack eliminates detrash and component separation labor for cable assembly manufacturers</li> </ul>