North American Operations

Amphenol Alden (AAP)
117 N. Main Street
Brockton, MA 02301
(508) 427-7000
info@amphenolalden.com
amphenolalden.com

Amphenol Audio USA (AA-USA)
PO Box 11401
Denver, CO 80211
(720) 508-3443
sales@amphenolaudio.com
amphenolaudio.com

Amphenol Fiber Systems International (AFSI)
1300 Central Expressway N. Suite 100
Allen, TX 75013
(800) 472-4225
info@fibersystems.com
fibersystems.com

Amphenol Industrial Products Group (AIPG)
40-60 Delaware Avenue
Sidney, NY 13838
(888) 364-9011
tech@amphenol-aio.com
amphenol-industrial.com

Amphenol Pcd (A-Pcd)
72 Cherry Hill Drive
Beverly, MA 01915
(978) 624-3400
amphenolpcd.com

Amphenol RF (A-RF)
Four Old Newtown Road
Danbury, CT 06810
(800) 627-7100
amphenolrf.com

Amphenol Sine Systems (A-Sine)
44724 Morley Drive
Clinton Township, MI 48036
(800) 394-7732
websitemanager@sineco.com
sineco.com

Amphenol-Tuchel Electronics GmbH (A-TE)
44724 Morley Drive
Clinton Township, MI 48036
(586) 913-8630
us-office@industrial-amphenol.com
amphenol.de
Note from the CEO

Ladies and Gentlemen,

For over 80 years Amphenol has enjoyed success as the interconnection technology provider of choice to industry-leading companies around the world. One of our key strategic areas of focus has been and is the Industrial market. Our organization works with leading manufacturers across a wide range of applications - including Energy & Distribution, Transportation, Heavy Equipment, Factory Automation, Medical, Oil & Gas - enabling smarter, faster and better technologies to connect products to customer solutions.

The Industrial market footprint of Amphenol covers over eight divisions in North America and more than 30 countries worldwide. Our successful expansion into new regions as well as new industrial applications is a direct reflection of our agile, entrepreneurial management team and our unwavering commitment to execute Amphenol’s strategies for the benefit of our customers, shareholders and employees.

This product overview highlights our primary Industrial end-markets and our comprehensive portfolio of leading interconnection technologies. It is designed to help you understand Amphenol's capabilities to achieve its high-technology aspirations.

Thank you for partnering with Amphenol. Our entire organization is at your service.

R. Adam Norwitt
President & CEO, Amphenol Corporation
Expanding the North American Industrial Presence

Amphenol Corporation is one of the world’s largest interconnect manufacturers. Founded in 1932, Amphenol designs, manufactures, and markets electrical, electronic, and fiber optic connectors, interconnect systems, and coaxial and specialty cables.

The market for industrial interconnect technology in North America is expanding as the world becomes more modernized. Some of the major driving forces behind this come from the expansion of energy, oil & gas exploration, medical advancements, transportation, and communications. Amphenol’s industrial divisions combine decades of experience with the latest technology to provide the best solutions in the industry. Our products are engineered and manufactured to the highest degree of quality and sold by a worldwide sales and marketing organization.
Medical

Technology is enhancing and prolonging our lives like never before. Today’s most innovative medical devices rely on Amphenol’s interconnect products to deliver quality images, accurate diagnosis and effective therapies. With the broadest product lines and the most advanced technologies, Amphenol offers medical device Design Engineers the freedom to transform all that is possible.

NORTH AMERICAN OPERATIONS

Amphenol Alden (AAP)
Brockton, MA

Amphenol Industrial Products Group (AIPG)
Sidney, NY

Amphenol Pcd (A-Pcd)
Beverly, MA

Amphenol Sine Systems (A-Sine)
Clinton Township, MI

See inside cover for full division listing and contact information.
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**High Density Circular Connectors**
The PLHD series are environmentally sealed, auto-latching circular connectors with double the density of traditional pin and socket design. Light weight, ergonomic and autocoupling, these connectors are ideal for applications where multiple mating cycles and high pin counts are required.

**Medical Cable Assemblies**
Highly reliable custom cable assemblies from multiple use autoclave sterilizable cables to high volume single use patient cables. We design and produce medical cable assemblies to meet performance, cost and time to market objectives in our robust ISO13485 medical cable assembly facilities worldwide.

**pulseOne Patient Cables**
The pulseOne friction interconnect system offers ergonomic, intuitive, and easy to mate cable assemblies in one pre-terminated package that seals as high as IPX7 when mated. pulseOne can be configured for both single use and multi-use applications depending on customer requirements. Choose from 4 to 14 contacts, or select the 10 pin PCB option for added intelligence to your connector system.

**Bus AC Solution**
Improved power performance, easy installation / cost reduction.

**D-Sub**
Receptacle, field installable / molded cable available. Screw, latch or automated locking type.

**ECTA 133**
Metallic Robust Push-Pull Industry connectors, high mating cycles.

**ECTA 544**
Plastic Push-pull connectors, high mating cycles.

**Fiber-Optic LTW**
Plastic receptacle and field installable LC/SC type for harsh environments.

**AC/DC**
Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.
High Voltage X-Ray Connectors
The P-series of high voltage connectors, rated up to 75 kVdc are designed for use in high voltage equipment common in medical and industrial X-Ray applications. They can be insulated through potting or used in transformer oil with easy to install, panel mount receptacles that provide an oil tight seal.

MotionGrade M23 and M40
Designed to excel in performance and reliability in our customers’ most demanding environments. All M23 and M40 products are IP67 rated. Amphenol’s MotionGrade™ M23 and M40 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.

Amphe-Lite
Amphe-Lite is a commercial composite connector series based on 38999 Series-III-type connectors. Ideal for communications equipment, manufacturing process control and medical equipment. Available in Non-Magnetic version.

Pulse-Lok
Pulse-Lok auto-coupling circular connectors are available in multiple sizes, with various pole counts and circuit densities in both plastic or metal. Further, you can combine signal, power, fiber, RF, pneumatic, fluidics, embedded electronics etc. into a single connector.

RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

RJ45
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtails.

RT360 Series
A multway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-V0, and are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

SurLok
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

USB and IEEE 1394B
USB 2.0 & 3.0, IEEE1394B for outdoor applications.
RADLOK
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.

Amphe-10G
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

97 Series
Amphenol’s 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.
Amphenol is a technology leader in the design, manufacture, and supply of high-performance interconnect systems for a broad range of industrial applications. Amphenol’s core competencies include application specific industrial interconnect solutions utilizing integrated assemblies with flexible printed circuits, as well as, high-power interconnects requiring a high degree of engineering and system integration. Our innovative solutions facilitate the increasing demands of embedded computing and power distribution.
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PRODUCTS - Industrial

5015
Amphenol’s 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts, and optional RoHS compliant versions.

97 Series
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A TYPE
The A-type XLR chassis receptacles have been designed and manufactured with the original equipment manufacturer’s needs in mind. The compact shell design offers significant space savings over the traditional “D” type shell providing a higher connector density.

AC Series C
The AC Series C type chassis receptacles feature two connectors in one space saving housing. A combined XLR female receptacle together with a 6.35mm (1/4”) phone jack give the designer more flexibility ensuring premium board space is saved. Various configurations are available in either stereo or mono layouts with vertical/horizontal printed circuit board or solder contacts.

ACA-B
The ACA-B is designed for commercial and industrial environments requiring a rugged bayonet style connector for heavy duty power and signal applications. ACA-B is manufactured in accordance with MIL-C-5015 and VG95234.

ArmorLight Cable
ArmorLight protected cables are a cost-effective solution to expensive conventional armored cables. For many years, seismic exploration companies have looked for a solution to keep seismic crews working in conditions where small animal bites have shut them down. Seismic crews using cables protected with ArmorLight have seen production in these areas improve tremendously.

AT Series
Available in 2, 3, 4, 6, 8 and 12 positions; 14-20AWG, 13A, Size 16; High-performance, cost-effective; Superior environmental seal retention; RockSolid™ Contact technology (optional); Compatible with existing standard products industry-wide.

Amphenol Alden (AAP)
Brockton, MA

Amphenol Audio USA (AA-USA)
Denver, CO

Amphenol Fiber Systems International (AFSI)
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Amphenol Industrial Products Group (AIPG)
Sidney, NY

Amphenol Pcd (A-Pcd)
Beverly, MA

Amphenol RF (A-RF)
Danbury, CT

Amphenol Sine Systems (A-Sine)
Clinton Township, MI

Amphenol-Tuchel Electronics GmbH (A-TE)
Clinton Township, MI

MARKET
Industrial
NORTH AMERICAN OPERATIONS
See inside cover for full division listing and contact information.
AT-SR01 Series
Specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP67 sealing performance regardless of wire bundle direction or improper installation. A cost-effective and highly-reliable solution for wire routing, strain relief and sealing issues common in Heavy Duty applications. It ensures a complete environmental seal and necessary strain relief on the production line and in the field.

AX Series
The revolutionary AX Series of XLR connectors introduce an exciting contemporary look and feel to the professional audio interconnect market. They are designed to complement modern audio architecture and truly “fit” within their environment. An impressive list of features guarantees pure sound performance in the most demanding applications providing unrivalled value.

Barracuda
The Barracuda range of environmental IP68 sealed connectors is specifically designed for harsh applications where water, dust, oil, or spray is present. These molded connectors are interchangeable with the equivalent Bulgin standard Buccaneer range of connectors, which feature enhanced ergonomics and ruggedized moldings. The Barracuda bodies are molded from glass filled nylon and all have the same outside diameter of 38mm at the largest point.

Bus Bar
Qualified to EN 3661, Amphenol Bus Bars (Series 3250) are designed and developed for power and interface distribution. Offered in multiple styles and configurations, Amphenol Bus Bars are robust, reliable, and produced with the highest quality.

C091
C091 series are M16 connectors with 2-8, 12 and 14 pins available with screw or bayonet locking.

Cable Glands Industrial
A series of commercial cable glands available with metric and PG threads. These liquid tight cable glands come in either a UL94V-2 rated nylon material or nickel plated brass materials.

Clamshells for Strain Relief
Designed for use with 3.5 to 5.08mm Terminal Block Plugs for a wide variety of Power & Signal applications.

DeepSight
Fiber-optic downhole connector for oil and gas applications.
Dual Lead High Voltage Connectors
The D-series of high voltage connectors, rated up to 15 kVdc, allows for double circuit polarized configurations used in high voltage feed and return devices. These connectors have become the industry standard for HeNe lasers and are popular in other applications.

ECO | MATE
Our ECO|MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder and crimp termination.

ECTA 133
Metallic Robust Push-Pull Industry connectors, high mating cycles.

ECTA 544
Plastic Push-pull connectors, high mating cycles.

EPBS Power Blocks
High Power Studded Terminal Block for High Current Applications.

ePower
The ePower series of connectors feature RADSOK® technology and are designed for the demanding requirements of hybrid, electric vehicles, and utility truck electrical systems, operating at 800vdc to 1000vdc with a 200A to 500A rating.

Geophone Strings & Products
Amphenol provides a wide range of vibration measurement devices called Geophones. Geophones are sophisticated measuring devices and are based on a coil suspended by springs in a magnetic field, within a steel case. The seismic industry today demands tight tolerances to meet the exacting standards of a modern seismic survey. Amphenol’s geophones are a cost-effective solution backed by a 3-year warranty.

Geophysical Connectors
Amphenol’s geophysical connectors are used in land seismic, transition zone, marine, and down-hole markets. Our capabilities include: land, marsh, and marine geophone, hydrophone, and array connectors; gender and polarity pocket adapters; battery and specialty overmolded connectors; and cable overmolding.

GT
Designed around MIL-DTL-5015 insert patterns, this circular reverse bayonet is widely used in geophysical, aerospace, alternative energy and mass transit industries.
Our UL factory automation patch cords and cordsets were developed in response to the need of a robust, streamlined and scalable product for use in all robotic and material handling systems such as conveyors, sorting, automated storage and retrieval, packaging, overhead transport and palletizing.

HEAVY | MATE C146
Rectangular heavy duty connectors for power & signal.

High Density Circular Connectors
The PLHD series are environmentally sealed, auto-latching circular connectors with double the density of traditional pin and socket design. Light weight, ergonomic and autocoopling, these connectors are ideal for applications where multiple mating cycles and high pin counts are required.

Luminus Series
The Luminus Series are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple product options to choose from, they meet MIL-T-81714, accept AS39020 and Stamped & Formed contacts, and are environmentally sealed to IP67. Ideal where space is limited, these innovative, “scoop-proof” connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

Max-M12
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.

MotionGrade M23 and M40
Designed to excel in performance and reliability in our customers’ most demanding environments. All M23 and M40 products are IP67 rated. Amphenol’s MotionGrade™ M23 and M40 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.

Neptune
NEPTUNE® incorporates our time tested Star-Line™ family contact technology. The NEPTUNE series is a major improvement over the existing power connectors used in the market today. NEPTUNE offers a significant weight, space and mounting footprint reduction over our competition. UL® Listed amperage ratings include 30, 60, 100, 150 and 200 options, with 3 and 4 contact options available.
NMEA 2000

P-Lok
P-Lok® connectors are rapid mating, push pull connectors capable of being implemented where MIL-C-5015 connectors or their commercial equivalents might be specified.

M35 and M40 Power Distribution Products
Provides the end-user with increased options for Power, Control and Communication connectivity on a ‘plug and play’ basis. Modular, crush-resistant, factory-molded connectors eliminate the need for hard-wired or traditional conduit installations. The strength of our interconnect systems are their simplicity. Standardization of these systems offer reduced installation, start-up and service time during routine maintenance.

PowerLink Cable
Amphenol's single conductor PowerLink Solar Cables are designed to be highly efficient, reliable, cost effective solutions for applications in harsh environments with extreme temperatures and rated for direct burial. Our PowerLink cables are proven solutions for any solar farm requiring reliable design and superior material construction.

Precision RF
APC stands for Amphenol Precision Connector and was developed by Amphenol and Hewlett-Packard engineers. The APC is the first instrument-grade coaxial connector series to achieve repeatable TE11 mode resonance-free signal transmission from DC - 50 GHz with a minimum return loss of 26 dB. These 50 Ω connectors are designed for test and measurement equipment where reliable performance is critical for repeated connect/disconnect cycles.

PRLC
The PRLC Series uses MIL-C-38999 series III construction with a tri-start mating mechanism, an excellent anti-vibration coupling. The connector has a generic construction throughout, all housed within a shell size 13. Typical applications for PRLC include: oil and gas exploration, and mass transit. The shell material is nickel, aluminum, bronze for marine and mass transit applications and stainless steel for oil field and mining applications.

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.

Pulse-Lok
Pulse-Lok auto-coupling circular connectors are available in multiple sizes, with various pole counts and circuit densities in both plastic or metal. Further, you can combine signal, power, fiber, RF, pneumatic, fluidics, embedded electronics etc. into a single connector.

Pulse-Net
Pulse-Net ruggedized Ethernet connectors are capable of performing outside of the traditional office environment. They provide sealing to IP67 and a durable connector design that can withstand the harshest environments. Multiple RJ45 keystone jack and plug options are available.
RMT Inter-Car Jumpers
Inter-car jumpers from Amphenol provide electrical connections between all types of rail vehicles and can be supplied for low-voltage and signals, high-voltage, 3-phase, and fiber optic systems. These jumpers are designed to suit a variety of insert arrangements, different currents and voltages, and many different cable sizes and types.

RT360 Series
A multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-VO, and are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

Single Lead High Voltage Connectors
The A-series of high voltage connectors are small, lightweight, and capable of handling between 10 and 25 kVdc. This high performing connector series perfectly handles the varying demands of high voltage test equipment, ionizers, ESD simulators, and many other end uses.

Smart Card Reader
Chip card readers for multiple applications.

Star-Line
The Amphenol Star-Line™ series connectors are heavy duty, environmentally sealed plugs and receptacles used in peak power generating systems, offshore petroleum production, power distribution and data acquisition.

Star-Line EX
Star-Line EX Series is a hybrid form of the parent Star-Line product line. The series is certified for use in a Zone 1-IIc hazardous environment. Classified facilities such as petrochemical refineries, land and offshore drilling systems are but a few of the applications for this broad product series.

SurLok
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

Telemetry Seismic Cables
Amphenol is an independent designer and manufacturer of telemetry seismic cables used with a wide range of seismic data acquisition systems such as I/O, Sercel, Aram, and Fairfield. We specialize in engineering products that perform globally in all climates and conditions such as land (arctic & desert), transition, and marine environments.

Terminal Blocks
Standard and custom range of PC board terminal blocks and discrete wire solutions.
TMPC Power Mount
The TMPC Power Mount incorporates our existing TMPC connectors with RADSOK® contacts into our new thermoplastic molded receptacle flange.

Vortex GT
The Vortex GT is a single pole 18mm reverse bayonet connector incorporating RADSOK® technology. Designed to deliver high power from source to load with the option of crimp, 2 hole busbar, or threaded busbar termination on the receptacle side.

MVC Series
A Medium Voltage Coupler Series, up to 15kV, ideal for mining, tunneling, shore power, and other industrial applications.

Amphe-CM
Stainless steel reverse bayonet coupling design ideal for underground mining equipment applications which require power and/or signal.

RADLOK
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.

Interface Modules
Industrial Interface Modules for interconnections between system I/O cards and field equipment.

PowerLok
Utilizing RADSOK® technology, the PowerLok was designed with compactness and robustness in mind. Suitable for applications up to 1000V ranging from 90A-500A, the PowerLok is a reliable, easy to use, and cost effective solution.

Amphe-10G
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

Cord Grips
Amphenol Cord Grips provide a complete array of sealing and hardware types. Whether the application calls for a small straight sealing body design, or a larger angled style, Amphenol Cord Grips provide rugged aluminum components to withstand years of service.
Amphenol is committed to the energy and power generation industry. We offer products to meet the current and future needs of both traditional and new energy technologies. Amphenol provides a broad range of products for data transfer, control and monitoring, and power distribution. In addition, we can provide customized solutions to meet the needs of the industry. Amphenol is continually developing new technologies to offer the best reliable solutions to the energy market. Our products and services deliver reliability, ease of installation, low loss, and the high signal integrity required for this demanding market.

NORTH AMERICAN OPERATIONS

Amphenol Fiber Systems International (AFSI) Allen, TX
Amphenol Industrial Products Group (AIPG) Sidney, NY
Amphenol Pcd (A-Pcd) Beverly, MA
Amphenol Sine Systems (A-Sine) Clinton Township, MI
Amphenol-Tuchel Electronics GmbH (A-TE) Clinton Township, MI

MARKET
Energy/Distribution

See inside cover for full division listing and contact information.
Amphenol is committed to the energy and power generation industry. We offer products to meet the current and future needs of both traditional and new energy technologies. Amphenol provides a broad range of products for data transfer, control and monitoring, and power distribution. In addition, we can provide customized solutions to meet the needs of the industry. Amphenol is continually developing new technologies to offer the best reliable solutions to the energy market. Our products and services deliver reliability, ease of installation, low loss, and the high signal integrity required for this demanding market.

**5015**
Amphenol’s 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts, and optional RoHS compliant versions.

**AC/DC**
Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.

**Amphe-EX**
Amphe-EX is a miniature, explosion-proof threaded connector specifically designed to allow a signal to pass through Zone rated areas using coax, fiber optic cables, or standard copper.

**Amphe-GTR**
A mainstay of the high end server market, the Amphe-GTR series is a composite reverse bayonet connector featuring RADSOK® technology.

**Amphe-Power**
The Amphe-Power® Series features RADSOK® technology and consists of three time-tested and reliable families of Amphenol Industrial Connectors (GT, 5015, and P-Lok).

**Amphe-PRB**
Amphe-PRB is a Plastic Reverse Bayonet connector series which offers a single-phase, two-phase, and three-phase multi-core waterproof solution for emerging markets.

**ATP Series**
A high-performance, cost-effective, thermoplastic solution available in 2 and 4 pin options, contains superior environmental seals, seal retention capabilities and are designed for use with 10-14 AWG with size 12 contacts handling up to 25 amps.

**Bus AC Solution**
Improved power performance, easy installation / cost reduction.

**Bus Bar**
Qualified to EN 3661, Amphenol Bus Bars (Series 3250) are designed and developed for power and interface distribution. Offered in multiple styles and configurations, Amphenol Bus Bars are robust, reliable, and produced with the highest quality.
**C091**
C091 series are M16 connectors with 2-8, 12 and 14 pins available with screw or bayonet locking.

**C16-3**
Circular plastic connectors for power & signal.

**Cable Glands Industrial**
A series of commercial cable glands available with metric and PG threads. These liquid tight cable glands come in either a UL94V-2 rated nylon material or nickel plated brass materials.

**Control Power**
Developed as a 6 pin/5 use option to support the Rockwell ArmorStart system. This system utilizes UL Dual-rated TC-ER STOOW and CSA STOOW cable.

**Custom AFSI**
Amphenol supplies multi-channel hybrid optical / electrical inserts to the marine seismic industry for use in towed-array geoseismic systems up to 30 bar. All connectors for this application are custom-designed to suit customer requirements.

**Custom Design ASF**
Adaptation from existing connectors or custom solutions to address specific needs.

**DeepSight**
Fiber-optic downhole connector for oil and gas applications.

**DeviceNet**
DeviceNet™ cables are available in static, thick and thin sizes, set to cover the many different demands in the field, utilizing UL Type CL2 or PLTC and CSA AWM III A/B FT4 cable, as well as, Flex and High Flex cable options.

**D-Sub**
Receptacle, field installable / molded cable available. Screw, latch or automated locking type.
**ECO | MATE**
Our ECO/MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder and crimp termination.

**ECTA 133**
Metallic Robust Push-Pull Industry connectors, high mating cycles.

**ECTA 544**
Plastic Push-pull connectors, high mating cycles.

**EPBS POWER BLOCKS**
High Power Studded Terminal Block for High Current Applications.

**ErgoN’**
Designed for high power applications such as electrical vehicles. Safe and easy to use.

**Ethernet Switches**
A range of performance Ethernet switches for the harshest environments.

**Fiber-Optic LTW**
Plastic receptacle and field installable LC/SC type for harsh environments.

**GT**
Designed around MIL-DTL-5015 insert patterns, this circular reverse bayonet is widely used in geophysical, aerospace, alternative energy and mass transit industries.

**HEAVY | MATE C146**
Rectangular heavy duty connectors for power & signal.
H4 PV Connector
The premiere solar connector in the market today, carries more amps, has a higher IP rating, and is fully intermateable with the industry standard connector.

Hercules PV Junction Box
The Hercules line of junction box assemblies are produced exclusively for crystalline silicon solar modules. With many models and endless pole/diode configurations paired with our PowerLink or ArmorLink cables and H4 PV connectors, we can meet any module need.

ModLink Modular Junction Box
The ModLink™ Modular Junction Box provides PV panel manufacturers an advanced junction box that enables cutting edge smart technology at no additional cost. Built-in industry standard connectors mate directly to Amphenol Industrial H4 PV connectors or to a wide range of “Smart” modules. These include DC/DC converters/optimizers, performance monitoring and DC/AC microinverters.

High Performance P-Clamp
Engineered for lean manufacturing, the high performance P-Clamps, overmolded and made with PEEK, are completely non-conductive/non-corrosive, lightweight, and very durable.

KTK
Our KTK is molded and machined glass-filled epoxy with gold contacts and a Viton O-ring. Fully compatible with the industry standard configuration, these connectors offer high pressure and high temperature sealed connections standard in the downhole industry.

M12
Panel mount, molded cable / field installable. 2A, 5A, 3, 4, 5, 8 contacts available.

MotionGrade M23 and M40
Designed to excel in performance and reliability in our customers’ most demanding environments. All M23 and M40 products are IP67 rated. Amphenol’s MotionGrade™ M23 and M40 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.

M28876
Up to 31-channel harsh environment fiber-optic connector series.

M8
Panel mount, molded cable / field installable. 5A, 3 to 4 contacts.
Neptune
NEPTUNE® incorporates our time tested Star-Line™ family contact technology. The NEPTUNE series is a major improvement over the existing power connectors used in the market today. NEPTUNE offers a significant weight, space and mounting footprint reduction over our competition. UL® Listed amperage ratings include 30, 60, 100, 150 and 200 options, with 3 and 4 contact options available.

Nuclear Junction Box
Power distribution blocks for K2 zone.

OCEANUS
Our OCEANUS Series of Connectors are tailored to meet the rugged demands of the subsea market. The product family offers versatile, high performance characteristics including 9,000 PSI open face pressure ratings, underwater wet mate-able connectors, multi-pin configurations, high speed (coax and fiber optic) and over-molded cable assembly options.

M35 and M40 Power Distribution Products
Provides the end-user with increased options for Power, Control and Communication connectivity on a 'plug and play' basis. Modular, crush-resistant, factory-molded connectors eliminate the need for hard-wired or traditional conduit installations. The strength of our interconnect systems are their simplicity. Standardization of these systems offer reduced installation, start-up and service time during routine maintenance.

PowerLink Cable
Amphenol’s single conductor PowerLink Solar Cables are designed to be highly efficient, reliable, cost effective solutions for applications in harsh environments with extreme temperatures and rated for direct burial. Our PowerLink cables are proven solutions for any solar farm requiring reliable design and superior material construction.

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.
RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable into an environmental connector.

RJ45
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtailed.

RT360 Series
A multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-VO and are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

SL61
Designed to fit multiple industrial applications, as well as, lighting applications for show business.

Star-Line
The Amphenol Star-Line™ series connectors are heavy duty, environmentally sealed plugs and receptacles used in peak power generating systems, offshore petroleum production, power distribution and data acquisition.

SurLok
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

Terrapin
Intended for harsh environment applications, Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design, Terrapin offers superior SMC performance and high environmental sealing to IP68. Resilient in severe battlefiled situations, the RoHS compliant black-silver plating is both low-luster and corrosion resistant. Terrapin features an optional locking mechanism and multiple shell sizes up to 37 contacts.

Terminal Blocks
Standard and custom range of PC board terminal blocks and discrete wire solutions.

TFOCA II
Four and twelve channel rugged hermaphroditic fiber optic connector for industrial applications.
TMPC Power Mount
The TMPC Power Mount incorporates our existing TMPC connectors with RADSOK® contacts into our new thermoplastic molded receptacle flange.

USB and IEEE 1394B
USB 2.0 & 3.0, IEEE1394B for outdoor applications.

USBFTV 3.0 Series
Rugged USB 3.0 interconnect solution featuring Tri Start thread mechanism per 38999 series III and high speed data rates (5 Gb/s).

Vortex GT
The Vortex GT is a single pole 18mm reverse bayonet connector incorporating RADSOK® technology. Designed to deliver high power from source to load with the option of crimp, 2 hole busbar, or threaded busbar termination on the receptacle side.

MVC Series
A Medium Voltage Coupler Series, up to 15kV, ideal for mining, tunneling, shore power, and other industrial applications.

Hercules II PV Junction Box
The Hercules II line of junction box assemblies expands on the efficiency and value of its predecessor.

HelioLug
HelioLug is a grounding component, certified to UL 2703 E338690 and QIMS7 (Canada) E338690, for solar modules and solar racking systems making termination to the ground wire a simple and easy process.

RADLOK
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.

PowerLok
Utilizing RADSOK® technology, the PowerLok was designed with compactness and robustness in mind. Suitable for applications up to 1000V ranging from 90A-500A, the PowerLok is a reliable, easy to use, and cost effective solution.
Amphenol’s 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.

The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

The H4 UTX™ from Amphenol is a robust photovoltaic DC connector triple-certified to UL 6703 1000V, EN50521 1500V (Class A), and JET 1500V specifications, making it currently the only connector available for usage in all major global PV markets.

Tru-Loc is a 2, 4, or 6 pin connector with 1.5 mm socket contacts featuring Amphenol’s exclusive RADSOK® contact system. The Tru-Loc connector series is designed to perform in demanding environments, such as under valve covers on diesel engines and in various under the hood interconnect applications.

The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

Amphenol Cord Grips provide a complete array of sealing and hardware types. Whether the application calls for a small straight sealing body design, or a larger angled style, Amphenol Cord Grips provide rugged aluminum components to withstand years of service.

The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.
Amphenol is a world leader in communication products with industry-leading engineering, design and manufacturing expertise. Amphenol offers a broad range of products to service the growing communications market, from customer premises cables and interconnect devices to distribution cable and fiber optic components. Amphenol also has diverse interconnect products deployed on a wide range of equipment from sophisticated head-end equipment to digital set-top boxes, high-speed cable modems, and DBS interface devices.

Along with communications products Amphenol connectors and cable assemblies equip CCTV cameras, traffic control and fast deployable homeland security communication networks.
Amphenol is a world leader in communication products with industry-leading engineering, design and manufacturing expertise. Amphenol offers a broad range of products to service the growing communications market, from customer premises cables and interconnect devices to distribution cable and fiber optic components. Amphenol also has diverse interconnect products deployed on a wide range of equipment from sophisticated head-end equipment to digital set-top boxes, high-speed cable modems, and DBS interface devices.

Amphenol Alden (AAP)  
Brockton, MA

Amphenol Audio USA (AA-USA)  
Denver, CO

Amphenol Industrial Products Group (AIPG)  
Sidney, NY

Amphenol Pcd (A-Pcd)  
Beverly, MA

Amphenol Sine Systems (A-Sine)  
Clinton Township, MI

Amphenol-Tuchel Electronics GmbH (A-TE)  
Clinton Township, MI

## MARKET
Communications/Security

See inside cover for full division listing and contact information.

### PRODUCTS - Communications/Security

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC/DC</td>
<td>Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.</td>
</tr>
<tr>
<td>Amphe-Lite</td>
<td>Amphe-Lite is a commercial composite connector series based on 38999 Series III type connectors. Ideal for communications equipment, manufacturing process control and medical equipment.</td>
</tr>
<tr>
<td>Amphe-PD</td>
<td>The Amphe-PD™ series features RADSOK® technology and is ideally suited for use in the Data Communications and Telecommunications markets.</td>
</tr>
<tr>
<td>Amphe-PRB</td>
<td>Amphe-PRB is a Plastic Reverse Bayonet connector series which offers a single-phase, two-phase, and three-phase multi-core waterproof solution for emerging markets.</td>
</tr>
<tr>
<td>C091</td>
<td>C091 series are M16 connectors with 2-8, 12 and 14 pins available with screw or bayonet locking.</td>
</tr>
<tr>
<td>Clamshells for Strain Relief</td>
<td>Designed for use with 3.5 to 5.08mm Terminal Block Plugs for a wide variety of Power &amp; Signal applications.</td>
</tr>
<tr>
<td>DeviceNet</td>
<td>DeviceNet™ cables are available in static, thick and thin sizes, set to cover the many different demands in the field, utilizing UL Type CL2 or PLTC and CSA AWM T1/A/B FT4 cable, as well as, Flex and High Flex cable options.</td>
</tr>
<tr>
<td>M8, M12 and RJ45</td>
<td>Our robust, streamlined and scalable Factory Automation patch cords and cordsets were developed for use in conveyors, sorting, automated storage/retrieval, packaging, overhead transport, palletizing, etc. Our patch cords are available as a standard product or they can be configured with custom cables to meet your specific design requirements.</td>
</tr>
<tr>
<td>D-Sub</td>
<td>Receptacle, field installable / molded cable available. Screw, latch or automated locking type.</td>
</tr>
</tbody>
</table>

### Division Listings

- **A-Pcd**
- **AIPG**
- **A-TE**
**ECO | MATE**
Our ECO|MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder and crimp termination.

**ECTA 133**
Metallic Robust Push-Pull Industry connectors, high mating cycles.

**ECTA 544**
Plastic Push-pull connectors, high mating cycles.

**EPBS Power Blocks**
High Power Studded Terminal Block for High Current Applications.

**Fiber-Optic LTW**
Plastic receptacle and field installable LC/SC type for harsh environments.

**Max-M12**
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.

**M12**
Panel mount, molded cable / field installable. 2A, 5A, 3, 4, 5, 8 contacts available.

**M35 & M40 Power Distribution Products**
Provides the end-user with increased options for Power, Control and Communications connectivity on a ‘plug and play’ basis. Modular, crush-resistant, factory-molded connectors eliminate the need for hard-wired or traditional conduit installations. The strength of our interconnect systems are their simplicity. Standardization of these systems offer reduced installation, start-up and service time during routine maintenance.

**PT**
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.
Pulse-Lok
Pulse-Lok auto-coupling circular connectors are available in multiple sizes, with various pole counts and circuit densities in both plastic or metal. Further, you can combine signal, power, fiber, RF, pneumatic, fluidics, embedded electronics etc. into a single connector.

RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

RJ45
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtails.

Smart Card Reader
Chip card readers for multiple applications.

Terrapin
Intended for harsh environment applications, Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design, Terrapin offers superior SMC performance and high environmental sealing to IP68. Resilient in severe battlefield situations, the RoHS compliant black-silver plating is both low-luster and corrosion resistant. Terrapin features an optional locking mechanism and multiple shell sizes up to 37 contacts.

USB and IEEE 1394B
USB 2.0 & 3.0, IEEE1394B for outdoor applications.

USBAP Plastic Series
Low cost Neoprene solution designed for IP67 environments when mated or capped, features IP54 “snap cap for receptacles and USB memory keys available up to 8 GB.

Amphe-10G
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

97 Series
Amphenol’s 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.
Transportation

The Transportation market segment is one of the most demanding markets in the industry that is subject to environmental impacts. It includes Marine, Rail Mass Transit, Automotive Hybrid/Electric Vehicles, and Commercial Vehicles. Amphenol has a wide range of connectors specially made for this market, starting with small sealed signal connectors, and going up to complex high-voltage and high-current solutions. Amphenol is a leading specialist for this market and understands the demands, our expertise and experience is a great asset especially for customer-specific solutions.

### NORTH AMERICAN OPERATIONS

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphenol Fiber Systems International (AFSI)</td>
<td>Allen, TX</td>
</tr>
<tr>
<td>Amphenol Industrial Products Group (AIPG)</td>
<td>Sidney, NY</td>
</tr>
<tr>
<td>Amphenol Pcd (A-Pcd)</td>
<td>Beverly, MA</td>
</tr>
<tr>
<td>Amphenol Sine Systems (A-Sine)</td>
<td>Clinton Township, MI</td>
</tr>
<tr>
<td>Amphenol-Tuchel Electronics GmbH (A-TE)</td>
<td>Clinton Township, MI</td>
</tr>
</tbody>
</table>

See inside cover for full division listing and contact information.
**5015**

Amphenol’s 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts and optional RoHS compliant versions.

**AC/DC**

Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.

**AHD Series**

Available in 6 and 9 positions (6 position: 10-14AWG, 25A, Size 12) (9 position: 14-20AWG, 13A, Size 16); High-performance, cost-effective; Ideal for controlled/uncontrolled environmental conditions; Compatible with existing standard products industry-wide.

**Amphe-PRB**

Amphe-PRB is a Plastic Reverse Bayonet connector series which offers a single-phase, two-phase, and three-phase multi-core waterproof solution for emerging markets.

**ASR**

The ASR is an “all-in-one” rectangular connector. Designed in a small form factor, the connector features locking tabs that enable an easy “mate and lock” - and an interfacial/rear grommet seal that conforms to Mil-Spec standards.

**Amphe-Power**

The Amphe-Power® Series features RADSOK® technology and consists of three time-tested and reliable families of Amphenol Industrial Connectors (GT, 5015, and P-Lok).

**AT Circular Series**

The AT Circular series is a 3, 5, or 9 pole molded thermoplastic receptacle with a reverse bayonet retention system and sealed by a redundant grommet wire setting. The square flange design ensures a drop in replacement to existing panel designs and the jam nut design makes for easy installation. The 9 pin black receptacles are in accordance with the J1939/13 diagnostic standard.
**AT Series**
Available in 2, 3, 4, 6, 8 and 12 positions; 14-20AWG, 13A, Size 16; High-performance, cost-effective; Superior environmental seal retention; RockSolid™ Contact technology (optional); Compatible with existing standard products industry-wide.

**ATP Series**
A high-performance, cost-effective, thermoplastic solution available in 2 and 4 pin options, contains superior environmental seals, seal retention capabilities and are designed for use with 10-14 AWG with size 12 contacts handling up to 25 amps.

**Bus AC Solution**
Improved power performance, easy installation / cost reduction.

**Bus Bar**
Qualified to EN 3661, Amphenol Bus Bars (Series 3250) are designed and developed for power and interface distribution. Offered in multiple styles and configurations, Amphenol Bus Bars are robust, reliable, and produced with the highest quality.

**C091**
C091 series are M16 connectors with 2-8, 12 and 14 pins available with screw or bayonet locking.

**C16-3**
Circular plastic connectors for power & signal.

**Cable and Pipe Clamp**
Electrical and hydraulic supports.

**D-Sub**
Receptacle, field installable / molded cable available. Screw, latch or automated locking type.

**Easy Mate**
Economic multiway panel and cable connector.
**ECO | MATE**
Our ECO|MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder and crimp termination.

**ECTA 133**
Metallic Robust Push-Pull Industry connectors, high mating cycles.

**ECTA 544**
Plastic Push-pull connectors, high mating cycles.

**ePower**
The ePower series of connectors feature RADSOK® technology and are designed for the demanding requirements of hybrid, electric vehicles, and utility truck electrical systems, operating at 800vdc to 1000vdc with a 200A to 500A rating.

**ErgoN’**
Designed for high power applications such as electrical vehicles. Safe and easy to use.

**Fiber-Optic LTD**
Harsh Environment Fiber Optic Connectors and cables for all applications.

**Fiber-Optic LTW**
Plastic receptacle and field installable LC/SC type for harsh environments.

**GT**
Designed around MIL-DTL-5015 insert patterns, this circular reverse bayonet is widely used in geophysical, aerospace, alternative energy and mass transit industries.

**HEAVY|MATE C146**
Rectangular heavy duty connectors for power & signal.
**High Performance P-Clamp**
Engineered for lean manufacturing, the high performance P-Clamps, overmolded and made with PEEK, are completely non-conductive/non-corrosive, lightweight, and very durable.

**HV Power**
High-voltage and current for HEV cable assembly solution.

**HVCO Charger**
Hybrid & electrical vehicle charging connector.

**JR Jumper**
Inter-car Jumper for EMU combine power, signal and fiber systems together.

**Luminus Series**
The Luminus Series are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple product options to choose from, they meet MIL-T-81714, accept AS39020 and Stamped & Formed contacts, and are environmentally sealed to IP67. Ideal where space is limited; these innovative, "scoop-proof" connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

**MotionGrade M23 and M40**
Designed to excel in performance and reliability in our customers' most demanding environments. All M23 and M40 products are IP67 rated. Amphenol's MotionGrade™ M23 and M40 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.

**Mini-Connector (7/8 - 16UN Screw Thread)**
Receptacle. Field installable / molded cable available 7/8"-16UN screw thread.

**MRC**
Modular rectangular connector.
NMEA 2000

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.

Relay Sockets
Fast on type relay sockets, clamping carrier blocks (diodes), etc.

RFM
Floating rectangular panel and rack connector.

RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

RJ45
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtailed.

RMT Inter-Car Jumpers
Inter-car jumpers from Amphenol provide electrical connections between all types of rail vehicles and can be supplied for low-voltage and signals, high-voltage, 3-phase, and fiber optic systems. These jumpers are designed to suit a variety of insert arrangements, different currents and voltages, and many different cable sizes and types.

RT360 Series
A multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-V0 and are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

USBFTV Memory Keys
USB 2.0 and 3.0 removable data storage solutions to replace hard disks in rugged environments; designed to mate IP68 with resistance to high shock and vibration conditions. Standard sizes from 2GB to 64 GB.
SIM Splice
The SIM Splice provides a reliable and simple connection between two SIM modules. This splice is designed in three versions; standard, with cable clamps, and/or flanged. SIM splice can be fixed on/under a structure or Feedthru.

SL61
Designed to fit multiple industrial applications, as well as, lighting applications for show business.

SurLok
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

Terminal Blocks
Standard and custom range of PC board terminal blocks and discrete wire solutions.

Terrapin
Intended for harsh environment applications, Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design, Terrapin offers superior SMC performance and high environmental sealing to IP68. Resilient in severe battlefield situations, the RoHS compliant black-silver plating is both low-luster and corrosion resistant. Terrapin features an optional locking mechanism and multiple shell sizes up to 37 contacts.

TRU-LOC
Tru-Loc is a 2, 4, or 6 pin connector with 1.5 mm socket contacts featuring Amphenol’s exclusive RADSOK® contact system. The Tru-Loc connector series is designed to perform in demanding environments, such as under valve covers on diesel engines and in various under the hood interconnect applications.

USB and IEEE 1394B
USB 2.0 & 3.0, IEEE1394B for outdoor applications.

RADLOK
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.
AT Series
Available in 2, 3, 4, 6, 8 and 12 positions; 16-22AWG, 7.5A, Size 20; High-performance, cost-effective; Superior environmental seal retention; Compatible with existing standard products industry-wide.

Backshells
Backshells are qualified to AS85049 and provide strain relief, environmental sealing and EMI/RFI shielding. Also RoHS compliant, they are available in aluminum, stainless steel, brass, and composite—and come in various finishes.

Junction Modules
Designed and qualified to MIL-T-81714, Amphenol Series I and II Junction Modules and Electrical Splices are robust and reliable. Offered in various types and configurations, all modules use standard AS39029 contacts and are environmentally-sealed. Mounting rails and installation/termination accessories are also available.

Quick Mount Relay Sockets
Amphenol's Quick-Mount Relay Sockets snap mount into standard aircraft panel cutouts and eliminates all socket-to-bulkhead mounting hardware. This simplifies the installation and dramatically reducing weight and installation cost. Sockets meet the applicable performance and dimensional requirements of MIL-PRF-12883 and are compatible with MIL SPEC approved relays from any manufacturer.

PowerLok
Utilizing RADSOK® technology, the PowerLok was designed with compactness and robustness in mind. Suitable for applications up to 1000V ranging from 90A-500A, the PowerLok is a reliable, easy to use, and cost effective solution.

Amph-10G
The Amph-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

97 Series
Amphenol's 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.

TRU-LOC
Tru-Loc is a 2, 4, or 6 pin connector with 1.5 mm socket contacts featuring Amphenol's exclusive RADSOK® contact system. The Tru-Loc connector series is designed to perform in demanding environments, such as under valve covers on diesel engines and in various under the hood interconnect applications.

Max-M12
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.
As the heavy equipment industry continues to introduce new devices that change the world’s landscape, Amphenol is there to bring electrical interconnect and value added design solutions. These solutions allow for highly technical pieces of equipment to operate at the highest level of productivity. The enormous breadth of Amphenol products solve the most difficult of applications which allow our customers to perform in some of the world’s harshest environments. Products include harsh environment connectors, power connectors, signal interconnects, high speed connectors, and much more.
As the heavy equipment industry continues to introduce new devices that change the world’s landscape, Amphenol is there to bring electrical interconnect and value added design solutions. These solutions allow for highly technical pieces of equipment to operate at the highest level of productivity. The enormous breadth of Amphenol products solve the most difficult of applications which allow our customers to perform in some of the world’s harshest environments.

**Products**

- **5015**
  - Amphenol’s 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts, and optional RoHS compliant versions.

- **97 Series**
  - Amphenol’s 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.

- **AC Threaded**
  - The AC Series of Connectors is a commercial version of our 5015 product family with solder and crimp contact and RoHS compliant shell finishes.

- **ACA-B**
  - The ACA-B is designed for commercial and industrial environments requiring a rugged bayonet style connector for heavy duty power and signal applications. ACA-B is manufactured in accordance with MIL-C-5015 and VG9523A.

- **AHD Series**
  - Available in 6 and 9 positions (6 position: 10-14AWG, 25A, Size 12) (9 position: 14-20AWG, 13A, Size 16); High-performance, cost-effective; Ideal for controlled/uncontrolled environmental conditions; Compatible with existing standard products industry-wide.

- **Amph-Lite**
  - Amph-Lite is a commercial composite connector series based on 38999 Series III type connectors. Ideal for communications equipment, manufacturing process control and medical equipment.

- **Amphe-RC**
  - Based on the Matrix MIL-DTL-5015 the Amphe-RC is a threaded coupling, crimp contact connector.

- **Amphe-SP3**
  - Amphe-SP3 are Single Pole Plastic Connectors with RADSOK® Contacts, Amphenol’s high current contact technology.

- **AT Circular Series**
  - The AT Circular series is a 3, 5, or 9 pole molded thermoplastic receptacle with a reverse bayonet retention system and sealed by a redundant grommet wire setting. The square flange design ensures a drop in replacement to existing panel designs and the jam nut design makes for easy installation. The 9 pin black receptacles are in accordance with the J1939/13 diagnostic standard.
AT Contacts
Amphenol “AT” contacts were designed using existing MIL-C-39029 technology, which has long been a requirement for military procurement. These reliable, high performance contacts are ideal for use in heavy equipment for environments such as construction, mining and agricultural machinery.

AT Series
Available in 2, 3, 4, 6, 8 and 12 positions; 14-20AWG, 13A, Size 16; High-performance, cost-effective; Superior environmental seal retention; RockSolid™ Contact technology (optional); Compatible with existing standard products industry-wide.

ATP Series
A high-performance, cost-effective, thermoplastic solution available in 2 and 4 pin options, contains superior environmental seals, seal retention capabilities and are designed for use with 10-14 AWG with size 12 contacts handling up to 25 amps.

AT-SR01 Series
Specifically designed wire cavities protect each individual wire seal, eliminating stress on the rear seal, maintaining IP67 sealing performance regardless of wire bundle direction or improper installation. A cost-effective and highly-reliable solution for wire routing, strain relief and sealing issues common in Heavy Duty applications. It ensures a complete environmental seal and necessary strain relief on the production line and in the field.

ePower
The ePower series of connectors feature RADSOK® technology and are designed for the demanding requirements of hybrid, electric vehicles, and utility truck electrical systems, operating at 800vdc to 1000vdc with a 200A to 500A rating.

GT
Designed around MIL-DTL-5015 insert patterns, this circular reverse bayonet is widely used in geophysical, aerospace, alternative energy and mass transit industries.

GTC Matrix
The GTC Matrix series combines the features from the reverse bayonet series, the Matrix MIL-C-5015 series and the M85049 series into one ultimate connector. The GTC-M series achieves environmental sealing without the necessity of additional sealing accessories by incorporating rear release metal clip contacts, a three-webbed grommet, and a “cork and bottle” insert design. This series is intermateable with the standard GT series.

Max-M12
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.
**RJ Switch Offerings**
Industrial grade IP67/68 rugged Ethernet switches for harsh environments. Available in different enclosure styles and sizes with multiple connector, plating and management options. Also available for ATEX Zone 2 applications.

**TRU-LOC**
Tru-Loc is a 2, 4, or 6 pin connector with 1.5 mm socket contacts featuring Amphenol’s exclusive RADSOK® contact system. The Tru-Loc connector series is designed to perform in demanding environments, such as under valve covers on diesel engines and in various other under the hood interconnect applications.

**USBFTV 3.0 Series**
Rugged USB 3.0 interconnect solution featuring Tri Start thread mechanism per 38999 series III and high speed data rates (5 Gb/s).

**USBFTV Memory Keys**
USB 2.0 and 3.0 removable data storage solutions to replace hard disks in rugged environments; designed to mate IP68 with resistance to high shock and vibration conditions. Standard sizes from 2GB to 64 GB.

**MVC Series**
A Medium Voltage Coupler Series, up to 15kV, ideal for mining, tunneling, shore power, and other industrial applications.

**Amhe-CM**
Stainless steel reverse bayonet coupling design ideal for underground mining equipment applications which require power and/or signal.

**PowerLok**
Utilizing RADSOK® technology, the PowerLok was designed with compactness and robustness in mind. Suitable for applications up to 1000V ranging from 90A-500A, the PowerLok is a reliable, easy to use, and cost effective solution.

**Amhe-10G**
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.
Amphenol is a leading supplier of interconnect and value add solutions to the Oil and Gas/Geophysical/Subsea market. With the increase in world demand for oil and gas by-products, the technology used in the exploration and production processes has grown in sophistication. With industry leading engineering, design and manufacturing expertise, Amphenol is the preferred supplier of harsh environment products for Offshore and Land Drilling equipment, FPSO Production, Downhole and Subsea Solutions. Amphenol has offered the exploration, drilling, and production industries a full range of product lines for more than 25 years. Our innovative designs offer solutions for power, signal, hybrid and high speed interconnect requirements.
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**MARKET**

- **Oil & Gas/Geophysical/Subsea**

**NORTH AMERICAN OPERATIONS**

- **Amphenol Fiber Systems International (AFSI)**
  - Allen, TX
- **Amphenol Industrial Products Group (AIPG)**
  - Sidney, NY
- **Amphenol Pcd (A-Pcd)**
  - Beverly, MA

See inside cover for full division listing and contact information.

**PRODUCTS - Oil & Gas/Geophysical/Subsea**

- **Amphe-Armor**
  A rugged connector originally designed for the geophysical industry and the exploration of natural resources, where connectors are needed to withstand the harsh environments of oil, gas, mud and water. Houses either PT series with solder termination, bayonet coupling or Amphe-Power GT with crimp termination, reverse bayonet coupling.

- **Amphe-EX**
  Amphe-EX is a miniature, explosion-proof threaded connector specifically designed to allow a signal to pass through Zone rated areas using coax, fiber optic cables, or standard copper.

- **Amphe-Trak**
  Amphe-Trak is a rugged connector developed for seismic ship streamers.

- **Aqua Power**
  Aqua Power connectors are designed for extremely heavy-duty use—and are trusted in some of the most rigorous underwater applications on the planet.

- **AquaLink FS140**
  AquaLink FS140 is a cost-effective series of dry-mate submersible fiber optic connectors for underwater applications.

- **ArmorLight Cable**
  ArmorLight protected cables are a cost-effective solution to expensive conventional armored cables. For many years, seismic exploration companies have looked for a solution to keep seismic crews working in conditions where small animal bites have shut them down. Seismic crews using cables protected with ArmorLight have seen production in these areas improve tremendously.

- **Cable Glands ATEX**
  Explosion proof and hazardous environment interconnects require complimentary cable glands. Our Cable Gland-ATEX product line is designed to perform in the most demanding environments. Amphenol’s complete line of EX Zone 1 and 2 rated cable glands offers our customers great flexibility.

- **Cord Grips**
  Amphenol Cord Grips provide a complete array of sealing and hardware types. Whether the application calls for a small straight sealing body design, or a larger angled style, Amphenol Cord Grips provide rugged aluminum components to withstand years of service.

- **CUDA**
  A complete line of marine geophysical connectors called CUDA. Available in single connectors and gun arrays from stock or on short lead-times to suit the variable demand cycle of the marine exploration industry.
Custom AFSI
Amphenol supplies multi-channel hybrid optical / electrical inserts to the marine seismic industry for use in towed-array geoseismic systems up to 30 bar. All connectors for this application are custom-designed to suit customer requirements.

DeepSight
Fiber-optic downhole connector for oil and gas applications.

DHR
With our Downhole Rotatable (DHR) Connector series we have radically redesigned these products to reduce failure points and increase reliability. Fully compatible with existing housings and mountings of industry standard Rotary Connectors, these connectors offer high temperature sealed connections standard in the downhole industry.

Geophone Strings & Products
Amphenol provides a wide range of vibration measurement devices called Geophones. Geophones are sophisticated measuring devices and are based on a coil suspended by springs in a magnetic field, within a steel case. The seismic industry today demands tight tolerances to meet the exacting standards of a modern seismic survey. Amphenol’s geophones are a cost-effective solution backed by a 3-year warranty.

Geophysical Connectors
Amphenol’s geophysical connectors are used in land seismic, transition zone, marine, and down-hole markets. Our capabilities include: land, marsh, and marine geophone, hydrophone, and array connectors; gender and polarity pocket adapters; battery and specialty overmolded connectors; and cable overmolding.

KTK
Our KTK is molded and machined glass-filled epoxy with gold contacts and a Viton O-ring. Fully compatible with the industry standard configuration, these connectors offer high pressure and high temperature sealed connections standard in the downhole industry.

Neptune
NEPTUNE® incorporates our time tested Star-Line™ family contact technology. The NEPTUNE series is a major improvement over the existing power connectors used in the market today. NEPTUNE offers a significant weight, space and mounting footprint reduction over our competition. UL® Listed amperage ratings include 30, 60, 100, 150 and 200 options, with 3 and 4 contact options available.

Poseidon
Poseidon are the most advanced connectors of their type, and are meticulously qualified and tested. Created for rigorous use, the Poseidon series provides versatile, high performance solutions, delivering maximum data and power for extreme depth applications.

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.
RIG-Lok
RIG-Lok is a reverse bayonet connector which incorporates our patented RADSOK® technology. The plug contains an 18mm RADSOK® socket and the receptacle contains an 18mm pin with the option of crimp, 2 hole busbar, or threaded busbar termination. When unmated, personal safety is maintained through touchproof, dead-front contact design.

RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

RJ Switch Offerings
Industrial grade IP67/68 rugged Ethernet switches for harsh environments. Available in different enclosure styles and sizes with multiple connector, plating and management options. Also available for ATEX Zone 2 applications.

RPT
Based on the 26482 but designed with a stronger shell and reinforced keyway to perform in the harsh environments of the Geophysical Market.

USBFTV Memory Keys
USB 2.0 and 3.0 removable data storage solutions to replace hard disks in rugged environments; designed to mate IP68 with resistance to high shock and vibration conditions. Standard sizes from 2GB to 64 GB.

Star-Line
The Amphenol Star-Line™ series connectors are heavy duty, environmentally sealed plugs and receptacles used in peak power generating systems, offshore petroleum production, power distribution and data acquisition.

Star-Line EX
Star-Line EX Series is a hybrid form of the parent Star-Line product line. The series is certified for use in a Zone 1-Ilc hazardous environment. Classified facilities such as petrochemical refineries, land and offshore drilling systems are but a few of the applications for this broad product series.

Submariner Series
The Submariner series of connectors has been used in many diverse applications including diving equipment, ROV’s, submersible pumps, and underwater cameras. With a variety of dry-mate and wet-mate solutions Amphenol’s Submariner series of connectors is quite versatile. By incorporating exceptional manufacturing techniques the end result is a product that can withstand the harshest underwater environment.

Telemetry Seismic Cables
Amphenol is an independent designer and manufacturer of telemetry seismic cables used with a wide range of seismic data acquisition systems such as I/O, Sercel, Aram, and Fairfield. We specialize in engineering products that perform globally in all climates and conditions such as land (arctic & desert), transition, and marine environments.
Terminal Blocks
Standard and custom range of PC board terminal blocks, discrete wire solutions, DIN rail.

TFOCA II
Four and twelve channel rugged hermaphroditic fiber optic connector for industrial applications.

TMPC Power Mount
The TMPC Power Mount incorporates our existing TMPC connectors with RADSOK® contacts into our new thermoplastic molded receptacle flange.

GEN-LOK
GEN-LOK is a power connector that offers a quick and convenient interconnection, supplying power to modular electric drilling rigs in remote, rugged and demanding land and sea locations.

Interface Modules
Industrial Interface Modules for interconnections between system I/O cards and field equipment.

Amphe-10G
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

Service Loops and Cable Assemblies
Amphenol Industrial Products Group is THE leading provider of Service Loops and Cable Assemblies to the drilling industry. As drilling equipment and, specifically, Top Drive Systems travel up and down in the drilling mast, a robust and reliable umbilical is necessary to provide the electrical and hydraulic power from the rig to the equipment. As a sort of ultra-heavy-duty "extension cord", this flexible cable and hose bundle (AKA: Service Loop) is a critical component of the overall drilling system. Amphenol Industrial Products Group is recognized for producing the highest quality, highest performance, and most reliable Service Loops and related Cable Assemblies in the industry.
Entertainment/Lighting

Amphenol Broadcast Solutions provides high-performance connectors, wire and cable, fiber-optic connectors and management equipment, custom assemblies and interconnection products for audio and video applications for the commercial and professional broadcast and entertainment markets.

See inside cover for full division listing and contact information.
Amphenol's 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts, and optional RoHS compliant versions.

**5015**

**AC/DC**
Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.

**AV**
HDMI, DVI, eSATA, receptacle, over-molded cable assembly. Screw-riveted, latch type.

**AX Series**
The revolutionary AX Series of XLR connectors introduce an exciting contemporary look and feel to the professional audio interconnect market. They are designed to complement modern audio architecture and truly "fit" within their environment. An impressive list of features guarantees pure sound performance in the most demanding applications providing unrivalled value.

**Amphe-10G**
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.

**Amphe-Lite**
Amphe-Lite is a commercial composite connector series based on 38999 Series III type connectors. Ideal for communications equipment, manufacturing process control and medical equipment.

**109 Series**
Four channel fiber optic hermaphroditic connector for broadcast applications.

**110 Series**
SMPTE 304M HDTV camera connector series.

**Bus AC Solution**
Improved power performance, easy installation / cost reduction.
**Clamshells for Strain Relief**
Designed for use with 3.5 to 5.08mm Terminal Block Plugs for a wide variety of Power & Signal applications.

**D-Sub**
Receptacle, field installable / molded cable available. Screw, latch or automated locking type.

**ECO | MATE**
Our ECO|MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder and crimp termination.

**Fiber-Optic LTD**
Harsh Environment Fiber Optic Connectors and cables for all applications.

**Fiber-Optic LTW**
Plastic receptacle and field installable LC/SC type for harsh environments.

**FS12**
Twelve channel fiber optic hermaphroditic connector for broadcast applications.

**HEAVY | MATE C146**
Rectangular heavy duty connectors for power & signal.

**Luminus Series**
The Luminus Series are lightweight, cost-effective connectors that are highly reliable and simple to use. With multiple product options to choose from, they meet MIL-T-81714, accept AS39020 and Stamped & Formed contacts, and are environmentally sealed to IP67. Ideal where space is limited, these innovative, “scoop-proof” connectors feature a locking mechanism that ensures stability, are suitable for blind-mating, and are RoHS compliant.

**M12**
Panel mount, molded cable / field installable. 2A, 5A, 3, 4, 5, 8 contacts available.
µCom - 10GB + Series
µCom-10GB+Series (pronounced, Mircocom) is the latest connector offering from Amphenol focused on the latest market trends of the industry: miniaturization and high speed. µCom-10GB+design of 4 twisted data pairs insulated throughout the entire connector results in a performance that exceeds IEEE 802.3an-2006 specifications for 10GBASE-T Ethernet and TIA/EIA-568-C.2 Cat6A standards.

MP
Multipole bayonet locking connector with PG glands.

Phone
1/4” jack sockets and cable plugs.

PT
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.

Pulse-Lok
Pulse-Lok auto-coupling circular connectors are available in multiple sizes, with various pole counts and circuit densities in both plastic or metal. Further, you can combine signal, power, fiber, RF, pneumatic, fluidics, embedded electronics etc. into a single connector.

RCA
RCA phono plugs and sockets in XLR housing.

RJ and USB
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

RJ45
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtails.

SATA Connectors
SATA II with latch provides secure, fast and reliable IP67 connection. It includes cable and PCB type for SMD or DIP.
SL61
Designed to fit multiple industrial applications, as well as, lighting applications for show business.

SP
High power loudspeaker connector.

SSL Solution Connectors
SSL-1 for SMT smart solutions in lighting.

SurLok
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

RT360 Series
A multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-VO, as well as are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

Terrapin
Intended for harsh environment applications, Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design, Terrapin offers superior SMC performance and high environmental sealing to IP68. Resilient in severe battlefiled situations, the RoHS compliant black-silver plating is both low-luster and corrosion resistant. Terrapin features an optional locking mechanism and multiple shell sizes up to 37 contacts.

TFOCA II
Four and twelve channel rugged hermaphroditic fiber optic connector for industrial applications.

UV
Amphenol Sine Systems is highly focused on developing standard products and customer specific solutions for the UV disinfection market. These products cover a broad range of UV applications from water purification, waste treatment, surface purification, to air purification. Our products are suitable for commercial, industrial, marine, and municipal requirements. Some examples of our UV products are lamp connector systems, ballast installation systems, power distribution systems, instrumentation connectors, waterproof connectors, and industrial control cable assemblies.

A-Pcd
A-A USA
A-Pcd
A-Pcd
A-Sine
A-Sine
A-Pcd
A-FSI
A-Pcd
XLRnet
XLR plug housing for industrial Ethernet connectors.

RADLOK
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.

M35 and M40 Power Distribution Products
Provides the end-user with increased options for Power, Control and Communication connectivity on a ‘plug and play’ basis. Modular, crush-resistant, factory-molded connectors eliminate the need for hard-wired or traditional conduit installations. The strength of our interconnect systems are their simplicity. Standardization of these systems offer reduced installation, start-up and service time during routine maintenance.

Max-M12
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2639 standards.

GT
Designed around MIL-DTL-5015 insert patterns, this circular reverse bayonet is widely used in geophysical, aerospace, alternative energy and mass transit industries.

44
Circular connectors.
Factory Automation

Factory automation is the use of control systems, as well as, information technology to achieve the most efficient manufacturing processes. It includes a wide range of applications, e.g. motion control, conveyor, robotics, machine tools, and many more. Our interconnect solutions provide highly reliable signal and power transmission for standard connectors and cable assemblies, plus customized versions.

NORTH AMERICAN OPERATIONS

Amphenol Industrial Products Group (AIPG) Sidney, NY

Amphenol Pcd (A-Pcd) Beverly, MA

Amphenol Sine Systems (A-Sine) Clinton Township, MI

Amphenol-Tuchel Electronics GmbH (A-TE) Clinton Township, MI

See inside cover for full division listing and contact information.
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**MARKET**

**Factory Automation**

**NORTH AMERICAN OPERATIONS**

- **Amphenol Industrial Products Group (AIPG)**
  - Sidney, NY
- **Amphenol Pcd (A-Pcd)**
  - Beverly, MA
- **Amphenol Sine Systems (A-Sine)**
  - Clinton Township, MI
- **Amphenol-Tuchel Electronics GmbH (A-TE)**
  - Clinton Township, MI

See inside cover for full division listing and contact information.

**PRODUCTS - Factory Automation**

**5015**
Amphenol’s 5015 series is a rugged, versatile, and environmental resistant connector with proven electrical capability. 5015 series connectors are medium to heavyweight cylindrical connectors with 5 shell styles, 19 shell sizes, and 5 service classes. The 5015 offers 286 contact arrangements from 1 to 104 circuits. It comes standard as a threaded coupling connector, available with solder, crimp, coaxial, or thermocouple contacts, and optional RoHS compliant versions.

**AC/DC**
Appropriate for many applications including photovoltaic, industrial automation, power supplies for heavy machinery and others.

**Amphe-Lite**
Amphe-Lite is a commercial composite connector series based on 38999 Series III type connectors. Ideal for communications equipment, manufacturing process control and medical equipment.

**Amphe-PRB**
Amph-PRB is a Plastic Reverse Bayonet connector series which offers a single-phase, two-phase, and three-phase multi-core waterproof solution for emerging markets.

**Bus AC Solution**
Improved power performance, easy installation / cost reduction.

**C015**
Circular connectors according to MIL-C 5015.

**C091**
C091 series are M16 connectors with 2-8, 12 and 14 pins available with screw or bayonet locking.

**C16-3**
Circular plastic connectors for power & signal.

**Cable Glands Industrial**
A series of commercial cable glands available with metric and PG threads. These liquid tight cable glands come in either a UL94V-2 rated nylon material or nickel plated brass materials.
**ControlPower**
Developed as a 6 pin/5 use option to support the Rockwell ArmorStart system. This system utilizes UL Dual-rated TC-ER STOOW and CSA STOOW cable.

**DeviceNet**
DeviceNet™ cables are available in static, thick and thin sizes, set to cover the many different demands in the field, utilizing UL Type CL2 or PLTC and CSA AWM III A/B FT4 cable, as well as, Flex and High Flex cable options.

**ECO | MATE**
Our ECO | MATE series comprises 3+PE and 6+PE contact inserts in various housings and shapes as well as models with screw, solder, and crimp termination.

**ECTA 133**
Metallic Robust Push-Pull Industry connectors, high mating cycles.

**ECTA 544**
Plastic Push-pull connectors, high mating cycles.

**HEAVY | MATE C146**
Rectangular heavy duty connectors for power & signal.

**High Performance P-Clamp**
Engineered for lean manufacturing, the high performance P-Clamps, overmolded and made with PEEK, are completely non-conductive/non-corrosive, lightweight, and very durable.

**M12**
Panel mount, molded cable / field installable. 2A, 5A, 3, 4, 5, 8 contacts available.

**MotionGrade M23 and M40**
Designed to excel in performance and reliability in our customers’ most demanding environments. All M23 and M40 products are IP67 rated. Amphenol’s MotionGrade™ M23 and M40 products are ideally suited for advanced servo drive encoder feedback applications, packaging, robotic, printing, machine tool, medical and automation environments where control signal transmission or power are required in a robust and compact delivery system.
**M8**
Panel mount, molded cable / field installable. 5A, 3 to 4 contacts.

**Mini-Connector (7/8 - 16UN Screw Thread)**
Receptacle, Field installable / molded cable available 7/8"-16UN screw thread.

**MotionGrade M23 and M40 Circular DIN Cable Assemblies**
Our factory-direct power and feedback Motion Control cable assemblies are ideal for your servo-drive applications, and are available in static and continuous flex options. All M7 style cables are manufactured with M4 threaded DIN style connectors and are compatible with Allen-Bradley motors that are equipped with the SpeedTec DIN (M7) connector.

**M35 and M40 Power Distribution Products**
Provides the end-user with increased options for Power, Control and Communication connectivity on a ‘plug and play’ basis. Modular, crush-resistant, factory-molded connectors eliminate the need for hard-wired or traditional conduit installations. The strength of our interconnect systems are their simplicity. Standardization of these systems offer reduced installation, start-up and service time during routine maintenance.

**PT**
Cylindrical metallic connectors based on the standard MIL-C-26482 in crimp, solder, and PCB contacts.

**RJ and USB**
Innovative connection systems designed to adapt any standard RJ45, USB cable sets into an environmental connector.

**RJ45**
Panel mount, cable molded, field installable. Termination: Jack, PCB, IDC, Screw, Pigtails.

**RT360 Series**
A multiway connector available in 6 shell sizes and 22 insert arrangements with a variety of wire gauge options. Alternate keying positions available on RT and RTOW Series. RT, RTOW and RTHP have inserts with flammability ratings of UL94-VO, and are RoHS compliant. RT360 industrial circular connectors were designed to be intermateable with other industry standard connectors.

**USBFTV Memory Keys**
USB 2.0 and 3.0 removable data storage solutions to replace hard disks in rugged environments; designed to mate IP68 with resistance to high shock and vibration conditions. Standard sizes from 2GB to 64 GB.
**PRODUCTS - Factory Automation**

**SurLok**
The SurLok™ non-environmental compression lug, featuring RADSOK® technology, is a field installable (no torque wrenches), highly reliable, economic alternative to standard one or two hole compression lugs.

**MotionGrade M23 Hybrid DMC**
MotionGrade™ M23 Hybrid DMC Series, with its 2 Power + PE / 1 Signal (1.0mm) / 4 Quad Element Ethernet layout, is designed to excel in the most demanding decentrally-controlled, daisy-chained environments, specifically where Hybrid applications are necessary. Ideally suited for advanced servo-drive encoder feedback applications where POWER, SIGNAL and COMMUNICATION is required in a robust and compact delivery system.

**Terminal Blocks**
Standard and custom range of PC board terminal blocks and discrete wire solutions.

**Terrapin**
Intended for harsh environment applications, Terrapin is a miniature series of circular push-pull connectors. Within a rugged shell design, Terrapin offers superior SMC performance and high environmental sealing to IP68. Resilient in severe battlefield situations, the RoHS compliant black-silver plating is both low-luster and corrosion resistant. Terrapin features an optional locking mechanism and multiple shell sizes up to 37 contacts.

**USBAP Plastic Series**
Low cost Neoprene solution designed for IP67 environments when mated or capped, features IP54 “snap cap for receptacles and USB memory keys available up to 8 GB.

**RADLOK**
Based on our SurLok™ Compression Lug with RADSOK® technology, but features a quick release button making for easy and rapid connections/disconnections.

**M8, M12 and RJ45**
Our robust, streamlined and scalable Factory Automation patch cords and cordsets were developed for use in conveyors, sorting, automated storage/retrieval, packaging, overhead transport, palletizing, etc. Our patch cords are available as a standard product or can be configured with custom cables to meet your specific design requirements.

**PowerLok**
Utilizing RADSOK® technology, the PowerLok was designed with compactness and robustness in mind. Suitable for applications up to 1000V ranging from 90A-500A, the PowerLok is a reliable, easy to use, and cost effective solution.

**Amphe-10G**
The Amphe-10G was designed as an alternative to fiber for high speed data transfers. Using an oval contact system housed in a 38999 shell, end users can achieve the highest data speeds of up to 10Gbps.
97 Series
Amphenol’s 97 Series is the lowest-cost cylindrical interconnect solution in the proven 5015 family connector style. An extremely versatile connector family, the 97 series offers six shell options, 128 different contact arrangements, 1 to 52 circuits, one of the largest selections of insert patterns on the connector market, and available with crimp, solder, thermocouple, or PCB contacts.

Cord Grips
Amphenol Cord Grips provide a complete array of sealing and hardware types. Whether the application calls for a small straight sealing body design, or a larger angled style, Amphenol Cord Grips provide rugged aluminum components to withstand years of service.

Max-M12
The Max-M12 is a ruggedized M12 high speed data connector based on the IEC 61076-2-101 and SAE J 2839 standards.
Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.