

Interconnect for Industrial applications

Standard AN Range

Amphenol supplies the widest range of industrial connectors and interconnect solutions available in the world today. We have modified our vast experience in the field of military and aerospace connectors to industrial applications. The broad product range includes connectors needed in Rail Mass Transit, and those needed for the myriad of environments encountered in exploration for natural resources.



Miniature or PT range

The Miniature or PT range of connectors offers the advantage of a 20-gauge contact to increase the circuit carrying capacity of a size 24 shell by 30%. Widely used in process control and geophysical applications, these connectors offer a three-point bayonet locking mechanism for quick coupling.

GT and AC Reverses Bayonet

The Rail Mass Transit market demands connectors that can survive the harsh environment of northern winters, as well as withstanding the salt air environment encountered in coastal areas. Amphenol provides those connectors in the GT and AC Reverses Bayonet series. Both of these series provide triple redundant, full-mated indicators to guarantee mating cycles.



Ampe-Lite Subminiature

The Ampe-Lite Series is designed for signal, power, RF or fiber optic interconnect requirements in harsh outdoor environments. Commercial 38999, Series III type composite connectors are ideal for communications equipment, manufacturing process control equipment, and medical equipment. Ampe-Lite offers the highest performance for severe environment, and is cost effective for general and non-environmental applications.

Ampe-Power, RADSOK®

Ampe-Power connectors are designed for high power amperage applications, battery, stationary power sets, generators, alternator, wireless base station, and petrochemical. The Ampe-Power FMLB connector with smaller size 8 gage pins and RADSOK® sockets. A nonconductive "Dead Front" feature for the personal safety of the user when the connector is unmated. Also features "First Mate - Last Break" pin, connects the grounding prior to other three high amperage circuits.



Special Ampe-Power

Power P-Lok Connectors with 14mm RADSOK® sockets are used for high amperage applications such as fuel cells, load banks or charging systems. The 2/0 or 4/0 crimp barrel can accommodate 500 amps continuous current without significant thermal rise. These connectors are over-molded to high amperage cables and, these over-mold materials will withstand automotive fluids, chemicals, cutting oils, coolants and other industrial fluids.

Ampe-Base

Amphenol has developed a connector series providing 50 amps per pin of power to printed circuit board or bus bar applications. Molded, one-piece Lexan construction provides a strong, durable, lightweight, non-environmental connector for base station power.



RJ Field

With the patented RJStop™ system, you can use a standard RJ45 cord set in a shell, which will protect it from shocks, dust and fluids. RJField allows you to use an Ethernet Class D / Cat. 5e connection in harsh environments. Sealed against fluids and dusts (IP67), and shock, vibration, and traction resistant. No cabling operation in field or tools required. Mechanical coding and reinforced EMI protection. Available in different shell formats: ECTA, PT, TV, and C146.

Interconnect for Industrial applications

ECTA Custom Design Series

ECTA Heavy duty series is designed for harsh automotive robotics environments. The push pull or screw type locking, means quick installation and easy maintenance. Available in signal, data, and power contacts in crimp or solder types.

Its compact size and easy push pull locking is also well suited for applications such as medical equipment, machine tools and measuring units.



ECTA Push-Pull Series

Circular push-pull connectors available in metallic or plastic housings, with IP 67 protection for data or power transmission (also available with mixed arrangement). The design includes stamped, rolled or machined contacts with solder, crimp, or PCB termination.

The ECTA series conform to UL 1977, VDE 0627/EN 61984 standards, and are used in applications such as robotics, sensors, machinery, test equipment, and telecommunications.

1777 Series

Industrial Versions of Well Proven Aerospace Junction Modules

The 1777 series are low cost, high density environmentally sealed junction modules. Available in wire sizes 22, 20, 16, and 12 for signal or power distribution.



Band Back shells for MIL-DTL-38999 Connectors

The Amphenol band back shells range provides high EMI/RFI protection as well as cable retention. The use of the band facilitates setting up of the back shell. Environmental sealing is ensured when terminated with a straight or right angle heat shrink moulded piece. The HE308-35 and TV 35 single band back shells can be used with all MIL-DTL-38999 connectors, as well as RNJ connectors.

Power Connectors

Amphenol has developed power connectors integrating the benefits of the MIL-DTL-38999 connectors. Different insert patterns are available, 4 x 60 amps, 4 x 100 amps + 4 x 13 amps, 1 x 250 amps, and 1 x 500 amps.



PPS Push Pull Connectors

Amphenol provides a full range of sealed miniature push pull connectors for industrial and ground defense applications in miniature diameters of less than $\frac{1}{2}$ ", with a high density contact arrangement. These sure lock push pull connectors have 5 orientation keys in sealed IP67 and EMC grounding fingers, and are chemical / NBC resistant.

Intervehicle Jumpers

A range of application specific intervehicle jumpers, available with conduited, armed, jacketed cable constructions, covering high voltage, power, RF, data bus and fibre optic technologies. These products are fully compliant with various rail specifications and are used extensively.



Base Station Fibre Optic (BDC)

A range of environmentally resistant long life Fibre Optic assemblies, designed for external base station applications. The fluid resistant overmould ensures long term integrity, temperature resistant and cost saving approach to fibre optics in these exposed platforms. Available in Duplex, Quad and Single and Multi mode fibre optic technologies.

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Rectangular Rack and Panel Connectors

Industry is increasingly using rack and panel connectors (machines, shelters, and cabinets). Amphenol provides a large range of modular connectors with standard and coaxial contacts (159 and 167 Series).

These connectors can withstand up to 50 amps and 6000 Vrms, for applications that require high-density connection and high mating cycles (5000). RFM connectors is qualified NFF61032.

C191M

This product range is suitable for medical technology for use with defibrillators or the secure connections between displays and patient monitoring devices. The molded cable versions offer the highest quality standards for such sensitive fields as intensive care. The female connectors enable a modular design of the monitoring devices. Special connector blocks offer efficient and compact interfaces.

C16 & C091 A/B Series Circular

C16-1 series is ideal for equipment and machine control, with its robust and durable plastic housings offering high performance. The C16-3 series offers both two different sizes to meet all requirements for higher contact numbers, and mixed models, with power and signal contacts. The C091 A/B is designed for control signals in sensor, medical, and telecommunications applications. The metal housing guarantees a secure connection. Available in screw as well as bayonet mating with right angle or straight.

Environmental

44 Series connectors offer high performance and high cost effectiveness for applications requiring environmental sealing. The one-piece waterproof design incorporates crimp and Poke-Home contacts in one to six configurations. Applications for truck, marine engine, traffic control, automotive, and mining ventilation systems.



C112M

The M12 connectors distinguish themselves through their compact construction and high mechanical and electrical reliability. The cable versions are pre-assembled and molded, to minimize or avoid failures occurring during assembly in the field. All versions are also available with EMI protection. This product range is used today worldwide, in areas such as automation and sensor technology.



C146 & C148-U Rectangular

The C146 series with IP65 protection were developed for rough conditions. We offer a variety of versions, including 3-280 contacts, screw or crimp, metric or PG cable in screw mating, with EMI protection. The C148U series was designed for use with servo drives and decentralized controls in rough environments that need temperature resistance, contact vibration assurance, watertight housing, and EMI resistance.



Industrial Cable Assemblies

Amphenol provides a wide range of industrial cable assemblies in professional level quality, logistics, flexibility and cost effective. We combine the advantages of worldwide capacity, with optimal workflow and the organization of local manufacturing. Utilizing up to date equipment and modern facilities, we distinguish ourselves with cable assemblies that use all connectors common in the market, with the highest degrees of rationalisation.



Entertainment

Solutions to a host of professional audio, lighting, and audio-visual applications. The space saving A series offers tangible benefits to OEM customers, and the IDC line connector offers a cleaner manufacturing environment and 60% labor savings for cable assembly. The patented "Jaws" strain relief offers best cable retention, and is featured in the AC series, T-Series 1/4" (6.35mm) phono plug. Multi-pin applications up to 48 channels are available.