

Interconnect for Internet applications

High Speed InfiniBand™

This new interconnect system was developed for data transfer rates up to 30 Gbits, and initially designed for the 4X & 12X interface for the next generation InfiniBand™, adopted by the Fibre Channel, SAS and 10 Gb Ethernet committee. The unique Amphenol design is available with or without filtering via an internal ferrite filter block, and allows for hot plug and, blind mating, with controlled impedance, while maintaining SFF8470 Specifications.



HSSDC

The High Speed Serial Data Connection (HSSDC) interconnection system was developed to meet speeds exceeding 1 Gbps, such as IEEE 802.3z and Fibre Channel. This system is being used by Fibre Channel and NGIO (Next Generation Input Output) is designed to conform to SEF-8420 specifications. It offers EMI common mode filtered plugs and receptacles, full ESD protected plugs, and ESD differential pair protected plugs.

Modular RJHS/Giga RJmag

The Amphenol RJ series has the widest variety of solutions for data communications and telecommunications. These EMI quiet connectors with LED's provide Cat 5 Ethernet performance. RJHS with a filtering option and RJmag is integrated with Ethernet Magnetics for high network speeds of up to 1Gbps. It meets and exceeds IEEE 802.3, and is available in single/multi-port, stacked, surface mount, thru hole, and combination stacked over USB connectors.



Firewire 1394

The new U32 and U33 series serial bus interface meets the IEEE 1394 standard. This high temperature, fully shielded connector interface is designed for transmission rates up to 400 Mbits. The hot pluggable connector system is designed for 1500 mating cycles. Available in different styles such as right angle thru hole, SMT, and vertical.

Filtered Connectors

Amphenol FCC series filtered connectors offer highly cost effective solution to EMI problems. Available in D-Sub, Micro-ribbon, BNC, Terminal Blocks and Discrete Filter Plate solutions. Filtered connectors are directly interchangeable with non-filtered versions, requiring no board layout changes.



DVI

Amphenol provides a complete range of Digital Visual Interface (DVI) connectors in both PCB and cable mounts, with various options and accessories for applications to digital flat panel displays, digital monitors, multimedia projectors, and video I/O for high-performance PC's and digital TV's. In addition to connectors, cable assembly and adapters are also available.

Serial ATA

This interconnect system series supports Serial ATA specifications for data communication between disk drives. Amphenol offers a complete range of plug and receptacle connectors (signal and power). In addition to individual connectors, we also provide cable assemblies.



Media Interface Adapter

Amphenol's Media Interface Adapter (MIA) converts gigahertz electrical signals into modulated light on optical fiber media. Converts signals from high speed serial DB9 connectors to multi mode optical (850nm) signals through a SC Duplex interface. The MIA product is intended to reduce the overall cost of implementing Fibre Channel (1.0625 Gb/s) and Gigabit Ethernet (1.25 Gb/s) applications.

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Multiple Application Cables

Amphenol offers a full portfolio of low and medium density cable assembly products to meet your needs in PC/Computing and Telecom/Datacom. Our highly skilled design engineers can meet with you to develop high quality, competitively priced cable assemblies as per specific requirements. Standard test measurements include electrical testing such as for shorts, opens, continuity, hi-pot, and capacitance.



VHDCI Interconnect System

The VHDCI (Very High Density Cable Interconnect) system was developed to provide interconnections where space limitations and high performance are key requirements. It is compact, and fully metal shielded for ESD/EMI protection. Ideal for use in notebooks, network bridges, PDAs, PC/file servers control cards, and digital video equipment. Available in single/stacked right angle receptacle and standard & die cast plug and cable assemblies.



High Speed Cables

Amphenol is a solutions leader for high data rate, mass termination, cost effective cable. We offer SKEWCLEAR LVDS for channel links and FPD Links, Double Speed Fibre Channel, SKEWCLEAR Plus, and Optic-clear Ultra 320 SCSI cables.



Fibre Channel

Amphenol is recognized as the leading manufacturer of single and double speed Fibre Channel and Gigabit Ethernet cable products. A complete line, with HSSDC, HSSDC2, HSSDB9 copper cable, and LC, SC, MT-RJ fiber optic cable applications. Maximizes performance in controlled impedance, cross talk, and skew characteristics, and has EMI isolation properties for copper cables, with low insertion loss, and high performance for optical cables.



PCMCIA Cardbus

Conforms to PCMCIA cardbus standards. This 32-bit, 33Mhz bus allows very high speeds in applications, from 100Mbit Ethernet to video conferencing, and other high-performance interface requirements for notebook computers.

USB Series

The Amphenol's USB series is a complete interconnection technology system in accordance with Universal Serial Bus Specifications Version 2.0. Used with asynchronous and isochronous data transfer rates of up to 12 Mbps. Available with different mounting options, including thru hole, SMT stack and vertical mount.



Internal and External SCSI

Amphenol provides the widest solution for any application, with various SCSI interconnect technologies. From SCSI I to Ultra 320, our complete product line can support your internal and external cable assembly and terminator requirements. Vertical integration within our product line assures our customers of a competitive solution, with precise design control. Specialized assemblies including products for storage and server clustering compliment our capabilities.



RF Cable Assemblies

Amphenol offers a wide range of RF connectors and cable assembly solutions. We specialize in wireless, micro, miniature, subminiature, and standard connector styles, using a variety of cable types such as corrugated, flexible and semi-rigid. We utilize streamlined processes and continuous flow manufacturing, utilizing specialized tools, processing equipment, and test capabilities to ensure performance.



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Hard Disk I/O

The combo I/O connector 864 series is designed for hard disk applications, available from 2 to 4 in one for multiple data, control and power applications. Its design combines several types of interfaces in one connector with polarizing features for proper mating. Single in-line SMT and straddle mounting, with high temperature plastic available.



2mm System (MeMS)

MeMS is based on modular elements, with functions separated in different modules can combine on PCB without loss of position. The modular design allows stack several types side by side (signal, power and RF) with high-density 2 mm contact spacing. Available male/female, straight/right angle mounting, solder/press and IDC round cable termination. Selective loaded pre-mating contacts available to male connectors.

DIN 41612

The DIN 41612 interconnection system from Amphenol is based on the two-piece printed circuit board connector family, having a 0.100 inch contact and termination grid, and a variety of termination types. Allow users to mix different connector styles (B, C/2, C, Q and R) within the same rack. The complete range DIN 41612 is fully interchangeable and interchangeable with all Euroconnectors.



Discrete Wire IDC DIN 41612

This series has pre-loaded contacts for discrete wire quick IDC termination. 2/3 rows, stackable, from 14 to 96 contacts with polarization keys. Options include of cable hoods and locking devices in straight and 45 degree cable outlets. Typical for backplane data cable assembly in datacom and telecom applications.

Fiber Ribbon Array Assemblies

These single-mode and multi-mode couplers ribbon fiber array cables are reliable, high performance and are optically tested in many standard lengths.

The 942 Series Service Cable Assemblies link the fiber optic transport cable directly to fiber optic processing equipment.

943 multimode patch cords and pigtails offer the convenience of multimode cable terminated with low-loss Amphenol connectors.



Fiber Optic FC/SC/LC

The 944 series FC/SC/LC connector is designed to greatly improve termination time and yield, over conventional multi-piece connectors. Its one-piece construction reduces termination time, and the optically non-disconnecting design prevents signal interruption. The highly concentric precision zirconia ceramic ferrules are pre-radiused to minimize insertion loss and back reflection.

Attenuators

The Amphenol 942/944/954 series variable attenuator is a passive in-line component, which accurately reduces the intensity of optical signals, with minimum back reflection.

The 942 series attenuator may be terminated with Super, Ultra and Angle FC, SC and ST connectors to increase system flexibility.



Fiber Optic Terminators

Termination without using index-matching materials. Fused fiber technology is utilized to terminate optical power, insuring long term reliability and temperature stability. Available in FC, SC and ST styles with PC polished. The Amphenol FC and SC terminators are mechanically interchangeable with NTT type FC and SC products, and conform to JIS C 5970 and JIS 5973 standards.

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Coaxial Connectors

Amphenol is one of the world's largest manufacturers of coaxial connectors for use in radio frequency, microwave, and data transmission system applications. Coaxial transmission cables are used wherever there is a need to shield both the electronic message carried through the cables, and the surrounding area from the electromagnetic and radio frequency interference.



Mini Ribbon

The 257 mini ribbon series conform to American National Standards Institute (ANSI) Specifications. The fork and blade contact design provides ease of mating/un-mating with "D" shape insulator design for polarization. Has a low profile design for space saving. The EMI/RFI shielding metal shell accepts standard spring clips (squeeze to release) latch types.

FRC Socket and Header

The 812 series FRC IDC socket can be used where quick connect and disconnect capabilities are required. 816 series 4 wall-protected headers are available in right angle/straight mounting, with different tail lengths. Both 812 and 816 series are compatible with MIL-C-83503 and IEC 603-2 specifications and are available in 10 through 60 positions.



Micro-Ribbon

Micro-Ribbon connectors offer a fast, economical interconnection systems. The versatile rack and panel, cable to panel, cable to cable and cable to PCB connectors are available in 14, 24, 36, 50, and 64 contact configurations, with solder terminations for the 57 series and discrete wire IDC terminations for 22 to 30 AWG wire for the 157 series. Widely used for modems, multiplexers, computers and peripherals, medical equipment, PBX devices, and scientific instruments.

FRC Cables

Amphenol's Spectra-Strip encompasses the full range of extruded and laminated ribbon cables. Available from grey-zip to zero-halogen, which offer high-performance and value-for-money. Ideal for applications requiring very high-speed transmission in computer and communications equipment.



Flex Circuit Cables

Amphenol offers its customers a complete flexible printed circuit interconnection solution, from initial design, through circuit fabrication, high-level assembly, and functional testing. Amphenol's products replace wire, tape cable, and connectors. These products are manufactured to MIL-P-50884C types 1,2,5, act-FC-250, or customer specifications. Assemblies meet ACT-A-610 and the ANSI "J" standard in UL and CSA certified.

Smart Card Systems

Amphenol Smart Card readers are designed to make a secure contact with the cards in accordance with ISO 7816, and with reliable data transmission. Available in push, push-pull, push-push and pushmatic. For payment systems, readers are in accordance with EMV Specifications, with specific card end position switches that detect the insertion and removal of a Smart Card.



D-Subminiature

The Amphenol D-subminiature family of connectors offers a wide variety of styles, options, and accessories, and is the most economical solution to any interconnect system. The different configurations (9 to 78 positions), terminations (wire, PCB/SMT/press fit and IDC), mounting features, contact plating, and assembly processes enable you to find the right products.