


Amphenol



**Interconnect
solutions**
for Geophysical
market



Worldwide PRESENCE



Amphenol was founded in 1932.

The company is **one of the largest manufacturers of interconnect products** in the world.

The company designs, manufactures and markets electrical, electronic and fiber optic connectors, interconnect systems and coaxial and flat-ribbon cable. Its activities are geared towards **7 majors markets** :

AEROSPACE / MILITARY – AUTOMOTIVE – BROADBAND COMMUNICATION – INDUSTRIAL –
INTERNET EQUIPMENT – MOBILE PHONES – WIRELESS INFRASTRUCTURE

Amphenol is headquartered in Connecticut, USA and employs more than 32,000 workforce on a worldwide basis with manufacturing and assembly operations in the Americas, Europe and Asia.



The technology used in oil exploration has steadily increased in sophistication over the years and Amphenol has been there in the forefront.

Geophysical market

EVERY OIL AND GAS MARKET IS SUPPORTED WITH **AMPHENOL** DEDICATED PRODUCTS

Land Seismic

Land seismic surveys require to be performed in more and more diverse environments (from hot and sandy deserts to cold and icy arctic environments), with an increased channel count. Amphenol has the range of copper, Ethernet, coaxial, fiber optic ... contacts, in an infinite number of shells, to meet your need.

Transition zone

Swamps, rivers, shallow waters ... any humid environment has dedicated connectors. You need wet mateable solutions, or connectors working under up to 15 m (50ft) of water? Ask Amphenol, we have the solution.

Marine

Amphenol supports those who need on deck marine grade connectors, lead in hermetic solutions, air gun and tail buoy connectors, electrical or hybrid custom design streamer inserts, high pressure OBC solutions...

Downhole

This challenging environment requires high density solutions working in high pressure, high temperature, highly corrosive environments. Amphenol has the local engineering resources to support your specific needs and standard range of downhole fiber optic, hermetics and PCB connectors.»



IN/OUT ELECTRICAL CONNECTORS

■ PT / 451 / 62GB SERIES

Miniature bayonet cylindrical connector available in solder or crimp versions. Rugged shells very suitable for harsh ground applications. Size 20 and 16 contacts, from 2 to 61 contacts. PCB and VVV versions also available. Numerous product extensions available.



PT/451/62GB Series

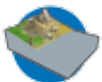


■ RPT SERIES

RPT series, Rugged PT connectors, has been designed for the Geophysical application's harsh environment. With a stronger shell and an interfacial seal (air leakage: 10⁻⁷ atm.cm³.s⁻¹ max), these connectors provide reliability in extreme temperature and moisture conditions.



RPT Series



■ AMPHE ARMOR

Overmolded rugged PT style connect or which features superior durability and water tight construction. The field-installable, field-repairable, constructed of high-impact glass-filled thermoplastic is the ideal solution for Geophysical Seismic Contractors.



Ampe Armor



■ FIELD SERIES

Rugged circular and rectangular interconnect which can be fitted directly -without particular tooling- with standard cordsets such as RJ45 Ethernet (Cat.5e), USB, Firewire (IEEE1394), RJ11 and the MTRJ and LC fiber optic interfaces. Available in Mil-DTL-38999 series III, Mil-C-26482 low cost Cat. 6 RJFRB circular shells, or rectangular shells such as SIM. Provides environmental protection : IP67, dust, shocks and vibrations. Excludes hazardous and costly in-field assembly.

www.rjfield.com



Field Series

■ SWITCH ETHERNET

A switch is a key-point element in an Ethernet Architecture. Amphenol ethernet switches are designed to provide a suitable interconnect solution in extreme conditions such as vibrations, temperature, oil, water, EMI - RFI standard compliant... by using high performance electronic components and heavy duty packaging and rugged Ethernet and Power supply connectors such as RJField TV. Amphenol Ethernet switches broad offering includes deterministic Ethernet network, power supply redundancy, ring topology and quick recovery time, "store and forward" switching process, manageable and unmanageable versions...

www.RJswitch.com



Switch Ethernet

■ FLEX & RIGID ASSEMBLIES ACT

Save weight and geometrically fit wiring into tight space requirements with Flex or Rigid Flex Circuits. Sculptured® Flexible Circuits with built-in termination eliminate the failures associated with crimped or soldered-on contacts. Flat, sculptured, or rigid-flex styles are strong, yet highly flexible for use with I/O connectors.



Flex & rigid assemblies act

■ STREAMERS

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



Streamers

■ PCB

Amphenol provides high density interconnection solutions for Printed Circuit Boards, for a high level of performances usage. The design combines modularity, flexibility, and cost savings to installation. In accordance with the RoHS regulation. Qualified up to 240°C

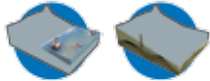


PCB

■ HERMETIC – HIGH PRESSURE

These connectors are available in the miniature or subminiature product range as well as D-sub connector. Hermetic connectors are fitted with glass-filled insert. Air leakage is less than 1.10×10^{-7} cubic cm per second under 1 bar differential pressure. Power versions.

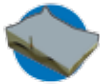
High pressure connectors are dedicated to downhole environment. Peek overmoulding withstanding a 25 000 psi, 175°C environment.



Hermetic

■ BUS BAR

Unique custom-design provide significant benefits in terms of weight reduction and size. Copper or nickel plated aluminum bars with epoxy coats working up to 180°C environment. Amphenol Bus bar are perfectly adapted to down hole challenging worlds.



Bus Bar

OPTICAL SOLUTIONS

■ OPTICAL TERMINI

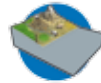
Optical termini for customers wanting to design their own interconnect systems. The optical termini range from ferrules sizes of 2.5 mm to 1.25 mm for both PC and APC applications.



Optical Termini

■ CTOS / CTOL

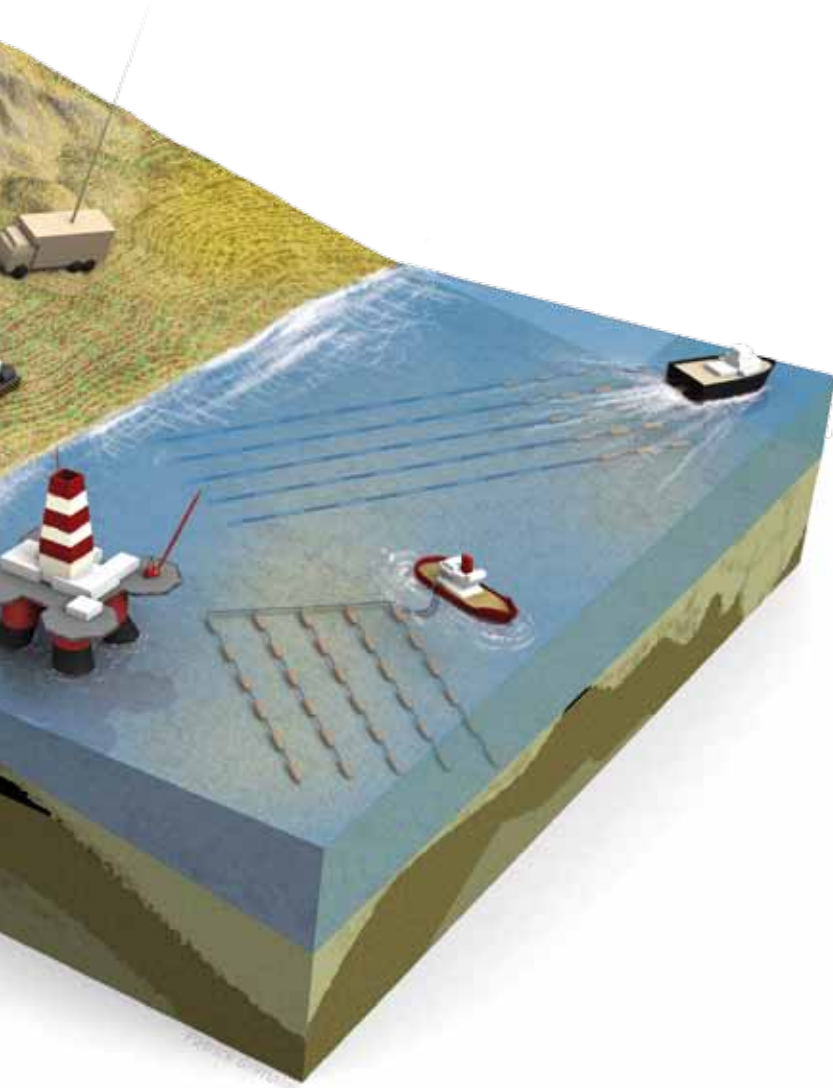
CTOS and CTOL series are robust optical connectors for rapid deployment of high-speed transmission links under harsh environments. The hermaphroditic mating facilitates daisy chaining. Specific lens design guarantees large beam diameter and low loss connection, less sensitive to dirt and dust. Blind mating. Flat protective window providing an easy to clean surface for improved performances and protection. From 1 to 8 channels. Multimode or singlemode.



CTOS / CTOL



Geophysical market



■ TFOCA II

The heart of the TFOCA-II® family of deployable fiber optic connectors centers on the TFOCA-II® sealed free floating termini. The unique termini design enables TFOCA-II® connectors to seal against high humidity and moisture conditions while allowing full axial and orbital movement of the mated termini, providing low insertion loss and minimal back reflection. This unique connector series was designed and patented by Amphenol Fiber Systems International for use in environmentally harsh conditions.



TFOCA II

■ OPTRON

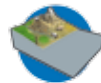
Circular hybrid connector designed and qualified to MIL-PRF-28876, Rev. E. Optron connectors are precision machined to stringent tolerances and designed to provide superior optical performance in extreme environmental conditions. Not only is it simple to install, it is also simple to maintain. Available in 3 shell sizes: 13 (4 ch), 15 (6, 8 ch), 23 (18, 31 ch). Multimode, singlemode, signal and power contacts.



OPTRON

■ HMAtwo

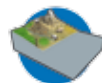
This environmental legacy hermaphroditic fibre optic lens connector facilitates the inter-connection of multiple identical fibre optic cable assemblies known as daisy chaining, thus eliminating the need for polarising the assemblies and the use of in-line adapters. The Connector is available in 1 to 4 way configurations for a variety of multi-mode, single mode fibres and both 850 and 1300nm applications and is inter-mateable/ interchangeable with other manufacturers equivalent products.



HMAtwo

■ INTEGRATED MEDIA CONVERTER

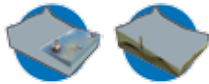
Electro-optics conversion in a rugged connectors, when you want the robustness of an electrical connection and bandwidth of a fiber optic cable



Integrated Media Converter

■ DEEPSIGHT

The DeepSight fiber optic connector is used in down-hole and OBC Applications. DeepSight has the ability to withstand the high pressure (25 000 psi), high temperature (175°C) and corrosive fluids found in downhole environments. 1 to 4 channels; multimode or singlemode.



DeepSight

■ SPLICE

The FTOS (Flexible tactical optical splice) allows Easy repair of tactical cables in the field with no epoxy handling. The special splice shell restores all the functions of the cable such as tensile strength flexibility, crush resistance and low losses. The repaired cable can be rolled and unrolled on a reel as before.



Splice

CUSTOM DESIGN - MOULDING

■ CUSTOM DESIGN

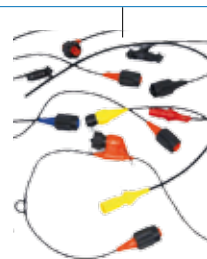
Your application is specific, you expect a solution at the edge of technology on an exclusive and confidential project: Amphenol has the innovative and global structure to answer your need.



Custom design

■ MOULDING

Land, Marsh and Marine Geophone, Hydrophone and Array Connectors. Gender and polarity pocket adapters, battery and specialty over moulded connectors. Cable overmoulding, bi-injection, peek, polyurethane overmoulding, nylon, silicon... Amphenol masters a large range of moulding technologies.

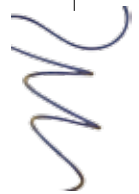


Moulding

CABLES

■ ARMORLITE™ – RODENT PROOF CABLE

For many years, Seismic Exploration Companies have looked for a rodent proof solution. Amphenol Steward Cable Inc. has designed a cost effective solution to expensive conventional armoring of cable and has found a solution ensuring the crew's productivity through ArmorLite™ protected cable



Armorlite™

■ CABLE ASSEMBLIES

Amphenol has the worldwide structure to design and assemble electrical and fiber optic strings. Reliable System Specific Cables, ARAM, ION, Sercel, Fairfield Box and Specialty Cables. Leader Wire both looped and Un-looped.



Cable Assemblies

GEOPHONES

■ GEOPHONES

Geophone Elements are manufactured to Amphenol Steward Enterprises stringent specifications and are covered under a 3 year limited warranty. Available in SCI-375-2.5, SCI-395-2, SCI-395-2.5 and SCI-395-4.5



Geophones

■ GEOPHONES STRING CONNECTORS & ARRAYS

Amphenol manufactures reliable specific cables assemblies from Sercel, ION, ARAM, Fairfield systems.



Geophones String Connectors & Arrays

NORTH AMERICA

Amphenol AEROSPACE OPERATIONS **Amphenol INDUSTRIAL OPERATIONS**

40-60 Delaware Street
Sidney, New York 13838-1395 - USA
Telephone: 1-607-563-5011 - Fax: 1-607-563-5157

Amphenol Pcd, Inc.

2 Technology Drive - Peabody, MA 01960
Telephone: 1-978-532-8800 - Fax: 1-978-532-6800

Amphenol BACKPLANE SYSTEMS

18 Celina Avenue - Nashua, New Hampshire 03063 - USA
Telephone: 1-603-883-5100 - Fax: 1-603-883-0171

Amphenol CANADA CORPORATION

20 Melford Drive - Scarborough, Ontario M1B 2X6 Canada
Telephone: 1-416-291-4401 Fax: 1-416-292-0647
1870 boul. des Sources, Suite 204
Pointe Claire, Quebec H9R 5N4 - Canada
Telephone: 1-514-630-7242 ext. 225
Fax: 1-514-630-7697

Amphenol FIBER SYSTEM INTERNATIONAL

1300 Central Expwy N, Suite 100 Allen, TX 75013 U.S.A.
Toll-Free: 800-472-4225
Fax: 214-547-9344
info@fibersystems.com

Amphenol SINE SYSTEMS

44724 Morley Drive Clinton
Township, MI 48036 USA
Telephone: 1-586-465-3131 - Fax: 1-586-913-9618

Amphenol Steward Enterprises **STEWART CABLE, Inc.**

1921 Alta Vista - Midland, Texas 79706
P.O. Box 11270 - Midland, Texas 79702- USA
Telephone: 432.687.2553 - Fax: 432.687.2278

HOUSTON CONNECTORS INC.

22552 Cuttler Road - New Caney, Texas 77357 - USA
Telephone: +1 281 399 2020 - Fax: +1 281 399 3434

EUROPE

Amphenol SOCAPEX

948, Promenade de l'Arve - BP29 - 74311 Thyez - France
Telephone: 33-4 50 89 28 00 - Fax: 33-4 50 96 29 75

Amphenol LIMITED WHITSTABLE

Thanet Way, Whitstable - Kent, CT5 3JF - United Kingdom
Telephone: 44-1227-773-200 - Fax: 44-1227-276-571

Amphenol AIR LB GmbH

Am Kleinbahnhof 4 - 66740 Saarlouis - Germany
Telephone: 49-6831-981-00 - Fax: 49-6831-981-030

Amphenol Air LB

10 Rue Champ Raymond - 08110 Carignan - France
Telephone: 33 3 2422 3270 - Fax: 33 3 2422 3872

Amphenol POLAND & CENTER EAST EUROPE

AUSTRIA, POLAND, CZECH REP, SLOVAKIA, ROMANIA

Wiener gasse 68 - 2380 Perchtoldsdorf - Austria
Telephone: +43 699 10396 071 - Fax: +43 699 40396 071

Amphenol ITALY

Via Barbaiana n. 5, 20020 Lainate - Milano - Italy
Telephone: 39-293-254-214 - Fax: 39-293-254-444

Amphenol IBERICA

Edificio Burgosal, Oficina nr 55 - C/Comunidad de Madrid,
35-bis Las Rozas (Madrid) - Spain
Telephone: 34-91-640-73-06 - Fax: 34-91-640-73-07

Amphenol NORDIC

Appelboms väg 2 - SE 18642 Vallentuna - Sweden
Telephone: +46 (0) 768418600 Fax: +46 (0) 702203197

Amphenol BENELUX

Zadelmaker 121 NL-2401 PD Alphen aan den Rijn
The Netherlands
Telephone: 31-172-444-903 - Fax: 31-172-240-254

Amphenol SWITZERLAND & SOUTH CENTER EUROPE

SWITZERLAND, SLOVENIA, SERBIA, MONTENEGRO, YUGOSLAVIA, GREECE, BULGARIA

948, Promenade de l'Arve - BP29 - 74311 Thyez - France
Telephone: 33-4 50 89 28 00 - Fax: 33-4 50 96 29 75

REST OF THE WORLD

Amphenol MEXICO

Prolongacion Reforma 61-6 B2
Col. Paseo de las Lomas - C.P. 013130 Mexico
Telephone: 52-55-5258-9984 - Fax: 52-55-5081-6890

Amphenol SOUTH AFRICA

30 Impala Road 2196 Chislehurst-Sandton
South Africa
Telephone: 27-11-783-9517 - Fax: 27-11-783-9519

BAR TEC LTD

4 Hagavish St, PO Box 279 - Kfar Saba 44102
Israel
Telephone: 972-9-767-4097 - Fax: 972-9-767-4324

Amphenol ARGENTINA

"Av. Callao 930 2do piso Oficina B "Plaza"
C1023" - AAP Buenos Aires
Argentina
Telephone: 54-11-4815-6886 - Fax: 54-11-4814-5779

Amphenol AUSTRALIA PTY LIMITED

2 Fiveways Blvd., Keysborough - Melbourne,
Victoria 3173
Australia
Telephone: 61-3-8796-8888 - Fax: 61-3-8796-8801

Amphenol DO BRAZIL

Rua Diogo Moreira, 132, 20 andar, rooms 2001-2-3
CEP: 05423-010 Sao Paulo SP
Brazil
Telephone: 55-11-3815-1003 - Fax: 55-11-3815-1629

Amphenol RUSSIA

8 bldg., 2 Yaroslavskaja Street, 129164 Moscow
Russia
Telephone: 7 495 937 6341 - Fax: 7 495 937 6319

Amphenol TÜRKIYE & MIDDLE EAST

SUN Plaza Kat 15 - Maslak Mah. Bilim Sok. No:5
34398 Sisli - Istanbul - Turkiye
Tel: +90 212 367 92 20
Fax: +90 212 367 92 21
Cell: +90 532 744 4020
saracoglu@amphenol.com.tr
www.amphenol.com.tr
www.amphenol-middle-east.com

ASIA

Amphenol PCD CHINA

Shenzhen
Telephone: +86-755-8173-8000
www.amphenolpcd.com.cn

Amphenol SHENZHEN MANUFACTURING SERVICE

The 4th Industrial District Industrial Headquarters. Dong Keng Road.
Gong Ming Town, Shen City, China
Telephone: (86-755) 2717 7845 - Fax: (86-755) 2717 7622

Amphenol EAST ASIA LIMITED

2201 Railway Plaza, 39 Chatham Road South
Tsmishatsui, Kowloon - Hong Kong
Telephone: 852-2699-2663 - Fax: 852-2691-1774

Amphenol INTERCONNECT INDIA PRIVATE LIMITED

105 Bhosari Industrial Area - Pune 411 026 - India
Telephone: 91-20-712-0363/0463/0155 - Fax: 91-20-712-0581

Amphenol JAPAN MIL/AERO INDUSTRIAL

689-1, Iseochi, Ritto-shi Shiga 520-3044 - Japan
Telephone: 81-77-553-8501 - Fax: 81-77-551-2200

Amphenol DAESHIN

558 Sosa, SongNea Bucheon-city, Kyunggi-Do - Korea 420-130
Telephone: 82-32-610-3800 - Fax: 82-32-673-2507/665-6219

Amphenol SINGAPORE

300 Beach Road #34-06 The Concourse
Singapore 199555 - Singapore
Telephone: (65) 6294-2128 - Fax: (65) 6294-3522

Amphenol SINE SYSTEMS

4 Floor, 39-B Qianpu
Industrial Estate, Xiamen
Fujian, China 361009
Telephone: 86-592-593-6666 - Fax: 86-592-593-1111