

MegaPhase®



RF & Microwave Products Through 110 GHz



**Test & Measurement Cables
RF & Microwave Cables
RF Components
Connectors
Adapters & Accessories**

With the right connections, anything is possible.

With the right connections, anything is possible

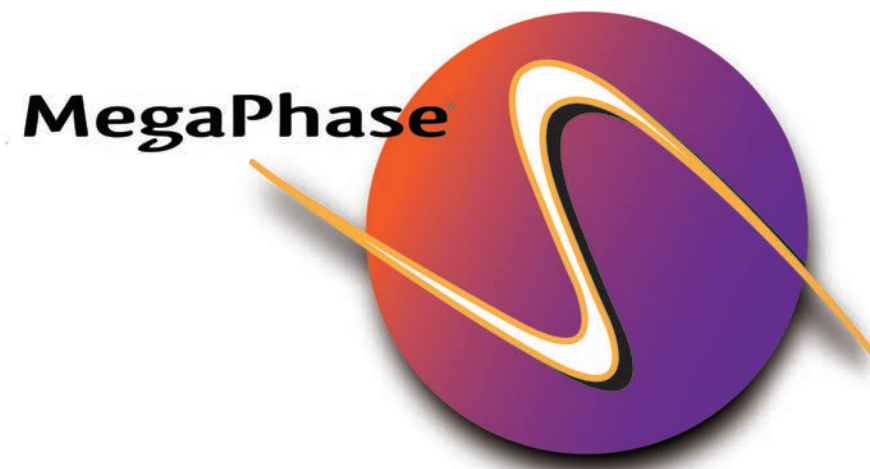
The cables & RF components in your electronic system may not be the most important components to you, but they're everything to us.

We design and manufacture cables & RF components with the understanding that if a connection fails, it can take your whole system with it.

That's why our products are known for superior phase & amplitude stability, excellent measurement repeatability, and extra rugged mechanical strength. It's why we developed a unique way to wrap some of our cable in flexible "armor." And why every component shipped from MegaPhase is thoroughly tested and retested. We also provide a powerful warranty, the most responsive deliveries, and highly competitive pricing. Because doing one thing right just isn't enough. Not for us; and not for you.

Call us at 570-424-8400 or Solutions@MegaPhase.com.

Visit us online www.MegaPhase.com



Missiles & Space

The MegaPhase GrooveTube® cable assemblies are the first to rendezvous with an asteroid.

Global Security & C4ISR

MegaPhase is a leading provider to the US Armed Forces and it's allies.

Military Airborne & Unmanned systems

MegaPhase designs and manufactures cable assemblies meeting the rigorous standards for military airborne applications.

Telecom, Broadband & Mobile Backhaul

MegaPhase products offer very low insertion loss.

Instruments & Automated Testing

MegaPhase was built on providing phase stable external accessory cables for vector, scalar and spectrum measurements.

SATCOM & Broadcast

MegaPhase supports a wide variety of antennas, ground communications and other critical components of integrated satellite communication systems.





Test & Measurement Cables

MegaPhase® RF Orange® Flexible 110 GHz Cable

Tough Test Cable Wrapped In Armor

- Phase Stable
- Armored
- Low VSWR
- 1.0mm Connectors
- Repeatable Measurements
- Extremely Flexible

The MegaPhase RF Orange® product line now features 110 GHz capabilities! This rugged, armored test cable allows for excellent VSWR, phase and amplitude stability versus flexure and temperature, without the "PTFE knee" at ambient lab temperatures. Common applications include semiconductor testing, on-wafer probing, automotive radar, and mobile backhaul. Available with 1.0mm connectors built to your custom length.



MegaPhase® VNA Test Port Extension Cables Through 70 GHz

Utmost Precision, Outstanding Durability

- Phase Stable
- Armored
- Low VSWR
- Wide Variety of Connector Combinations
- Repeatable
- Excellent Flexibility

MegaPhase test port extension cables are the perfect alternative to over-priced OEM test cables. These test cables provide the utmost precision in vector network analyzer measurements in the lab while holding your calibration. Besides the electrical performance, these VNA cables are rugged and feature a lightweight armor to insure consistent performance over time in lab and production environments. A wide variety of connectors are available including the precision "NMD" or "port ruggedized" connectors, which mate directly to the VNA port. Connector attachments are designed to enhance sudden axial and radial loading. Phase matching available. Fewer calibrations mean less downtime, resulting in the MegaPhase promise of Lowest Cost Per Measurement™.



RF Orange® Test Cables to 70 GHz

The Industry Standard For Bench Testing

- Phase Stable
- Armored
- Low VSWR
- Wide Variety of Connectors
- Repeatable
- Great Flexibility

The MegaPhase RF Orange® test cable is the gold standard (at MegaPhase we call it the "orange standard") for the best overall value in test cables. Whether you're in a lab, production environment, or building an ATE, this rugged test cable provides a long service life with repeatable performance throughout the life cycle of the cable. A wide variety of connectors are available, custom lengths, a variety of colors, and phase matching. Fewer calibrations mean less downtime, resulting in the MegaPhase promise of Lowest Cost Per Measurement™.



Killer Bee™ Test Cables to 40 GHz

Phase & Amplitude Stable Performance Low Loss

- Phase Stable
- Armored
- Low VSWR
- Wide Variety of Connectors
- Low Loss
- Ultra-Flexible

The MegaPhase Killer Bee™ features low loss and outstanding phase and amplitude stability over flexure and temperature. Featuring our proprietary Boundless™ low loss dielectric, this rugged and light-weight test cable provides a long service life with repeatable performance through the life of the cable. A wide variety of connectors and phase matching are available. Fewer calibrations mean less downtime, resulting in the MegaPhase promise of Lowest Cost Per Measurement™.





Test & Measurement Cables

EMC Lab Test Cables to 40 GHz

Low Loss Armored Test Cables For Compliance Measurements

- Low Loss
- Armored
- Long Lengths Available
- Wide Variety of Connectors
- Excellent Shielding -110 dB
- Flexible

MegaPhase designed its EMC series test cable specifically for the needs of EMC lab technicians. With assembly shielding effectiveness of -120 dB, these low loss, ultra-rugged armored cables are constructed using materials that meet electromagnetic compatibility standards including conductive interface gaskets. Phase matching, alternative conductive jackets (such as Ferrite), and long lengths are just some of the features available for EMI/RFI test environments including transient and spurious emissions measurements. RF shielding verified per MIL-PRF-39012.



RF Green™ Test Cables to 26.5 GHz

Eco-Friendly, Phase Stable Performance

- RoHS Compliant
- Armored
- Zero Halogen
- Phase Stable
- Zero Fluorine
- Light Weight

MegaPhase is the leader in high performance cables with minimal environmental impact. In addition to using eutectic (Pb-free) RoHS-compliant solders, these assemblies use a cellular Polyethylene dielectric to eliminate Fluorine typically found in PTFE-based products. The jacketing and labels are made from SmartGrid rubber, a Zero-Halogen solution to further our commitment to reduce environmental impact. This cable assembly is rugged and provides a great overall value for your laboratory without expanding your carbon footprint.



Thermal VAC Test Cables to 50 GHz

Thermal-Vacuum Cables For Altitude & Thermal Testing

- Low Outgassing
- Phase Stable
- Thermal Stability -100 to +150 C°
- Vented Connectors
- Ideal for High Bay Testing
- Rugged Construction

MegaPhase Thermal Vac microwave test cables are manufactured specifically for customers testing space and airborne systems and components. This phase stable cable is ideal for high bay testing of RF payloads, and applications in the severe environment of thermal vacuum chambers, altitude chambers, thermal shock, or any other application requiring thermal stability.



SiteLine™ Armored Test Cables to 50 GHz

Utmost Precision, Outstanding Durability

- Phase & Amplitude Stable
- Rugged Armor
- Crush Proof 250 lbs/in (.46 kg/cm)
- Severe Environment
- Field and High Impact Production
- Flight Line Testing

MegaPhase's SiteLine™ test cable assemblies are protected by a super-rugged armor designed for severe environments, such as flightline, outdoor antenna testing, and demanding production environments. This "gorilla proof" cable endures torque, twist, and crush forces better than any cable on the market, period. Ideal for use with FieldFox®, SiteMaster™, and Site Analyzer®.





Test & Measurement Cables

Broadband Test Cables to 8 GHz

75-ohm Cables For Testing Of IoT Devices, Cable Modems, CATV, IPTV, And Broadcast Components

- 75-ohms
- Light Weight
- Rugged Design
- Excellent Return Loss 30dB at 4 GHz
- High Performance
- Precision Connectors

MegaPhase 75-ohm broadband test cables are designed for bench-top testing of devices in broadcast, IoT, satellite and cable TV receivers, cable modems, High Definition televisions, AM/FM radio receivers, and police scanners. These test cables are designed to survive in rugged test environments and provide stable performance under flexure enabling repeatable measurements between calibrations. Precision connectors include Type N, F, and BNC.



ChipSet Measurement Test Cables to 40 GHz

Test Cables for Lightweight DUTs And Fixture Board Testing

- Light Weight
- Low Loss
- Small Diameter
- Ideal For Light Weight DUTs
- Precision Connectors

MegaPhase's ChipSet Measurement cable provides a smaller diameter solution for test environments including high density fixture boards and other board-launched connections. This low density dielectric cable offers several benefits including flexibility, low insertion loss, and low capacitance for low loss transfer of power.



Private Labeled Test & Measurement Cables

Increase Revenues, Enhance Brand Marketing, Provide End-To-End Test Solutions

- Custom Jacket Color
- Customer-Supplied Serial Numbers
- Custom Logo And Labeling
- Custom Packaging & Shipping Labels
- Test Data On Your Letterhead
- Wide Variety Of Cable Types

MegaPhase is an industry leader in test & measurement cables for a wide variety of RF & Microwave applications. Our products feature vertically-targeted cables used from 10 MHz through 110 GHz for telecom, semiconductor, spacecraft and C4ISR test sets using vector and spectrum analyzers, probe stations, environmental test chambers, and many more.

You may already know that MegaPhase provides private-labeled test cables to some of the largest instrumentation manufacturers globally. This capability is also available for many customers in equipment rental, "rack and stack" integrators, brand-conscious component manufacturers, distributors and many others. Our capabilities for both large and small quantity customers make the process easy, seamless and confidential.



MegaPhase® Probe Station Test Cables to 110 GHz

Every Detail Is Designed For Dynamic Probe Station Measurements

- Phase and Amplitude Stable
- Angled Connectors for Probe Stations
- Typical VSWR of 1.25:1 through 110 GHz
- Small Diameter
- Accurate On-Wafer Measurements
- Precision Connectors

The Probe Station test cables are specifically designed for dynamic probe station measurements and offer low loss, phase stable performance through 110 GHz. These test cables have semi-rigid formed angle to insure the station head has complete freedom of movement. Available with 2.92mm connectors through 40 GHz, 2.4mm connectors through 50 GHz, 1.85mm connectors through 70 GHz, and 1.0mm connectors through 110 GHz.





RF & Microwave Cables

GrooveTube® Cables To 32 GHz

Rugged, Low Loss Performance For Severe Environments

- Low Insertion Loss
- Phase And Amplitude Stable
- Stable Under Vibration And Severe Conditions
- Rugged GrooveTube® Technology
- Boundless™ PTFE Dielectric
- Proprietary Pull-Resistant Connector Design

MegaPhase offers these cables with rugged GrooveTube® Technology, a crush-proof convoluted copper armor and outer conductor. GrooveTube® features low insertion loss, phase and amplitude stability, and low VSWR through 32 GHz. Applications include phased array radar, electronic warfare radar systems, and applications where high reliability interconnects are critical. Available with phase matching, delay matching, and custom configurations.



Phase3™ Cables To 70 GHz

Ultra Low Loss Performance

- Ultra Low Loss
- Excellent Shielding Effectiveness -110 dB
- Low VSWR
- Helical Foil/Braid Outer Conductor
- Super Flexible
- Light Weight

Phase3™ cables offer the absolute lowest loss possible without sacrificing flexibility or shielding effectiveness. The Phase3™ product line is used in airborne phased-array radars, ground-based EW, and ATE. Available with phase matching, delay matching, and armoring upon request.



The Warrior Cable® To 50 GHz

Rugged And Crush-Proof — When Downtime Is Not An Option

- Soldier Proof Solution
- Stable Under Vibration And Abuse
- Crush Resistant To 250 lbs/Linear In (45 kg/linear cm)
- Rugged GrooveTube® Technology
- Proprietary Pull-Resistant Connector Design
- Jacketed To Withstand The Elements, Including Chemicals.

The MegaPhase Warrior Cable® is a combat proven, "soldier proof" solution ideal for ground-based EW and ECM. This cable is internally armored with GrooveTube® Technology, a crush-proof outer conductor, surviving in the harshest conditions including salt, fog, humidity, dust, sand, vibration, and flexure.



Survivor™ Ruggedized Cables To 40 GHz

Low Loss Armored Cables For Rigorous Environments

- Crush Resistant
- Low Loss
- Pull Resistant
- Stainless Steel Armor
- Robust Connector Termination
- Wide Variety Of Connectors

The Survivor™ cable assemblies employ a low loss cable inside a light weight stainless steel armor to survive rigorous installation conditions through 40 GHz. These low density dielectric cables are designed to handle rigorous test environments and provide high crush resistance for applications including outdoor antenna testing, production test, and lab test. The Survivor™ cables are cost effective and available with Type N, SMA, 3.5mm, 2.92mm, 2.4mm, and 1.85mm connectors.





RF & Microwave Cables

NextPhase™ Cables to 40 GHz

General Purpose Low Loss

- Low Loss
- Low VSWR
- Excellent Shielding Effectiveness
- Triple Shielded
- FEP Jacket
- Wide Variety Of Connectors

The NextPhase™ low loss cable line is designed for general purpose interconnects demanding low loss and triple shielding. Applications include ATE, ground- and air-based EW, and many others where reasonable cost and long lengths are required. A wide variety of diameters are available to accommodate a wide range of design requirements in terms of bend radii, weight and power performance. A wide variety of connectors are available.



Semi-Rigid Cables to 110 GHz

Custom and Standard Designs Using CNC Bending

- Catalog Or Build-To-Print
- Stable Performance
- Custom Design Services
- Precision CNC Bends
- Sizes 0.034in (0.86mm) To .25in (6.35mm)
- Wide Variety Of Connectors

MegaPhase offers high reliability semi-rigid cable assemblies in a variety of configurations. With precision CNC bending, our customers are guaranteed consistency among multiple assemblies. MegaPhase offers custom design services complete with engineering drawings. These assemblies are MIL-DTL-17 qualified, typically with a tin-plated copper outer conductor. Applications include delay lines, switch matrices, test fixtures, instrumentation, and other integrated systems.



MegaForm™ Cables to 26.5 GHz

Hand-Formable Jumper Cables

- Low VSWR
- Alternate To Semi-Rigid
- Easy Installation
- Tin-Dipped Copper Braid Outer Conductor
- Bends in Place
- .047in (1.2mm), .086in (2.18mm), And .141in (3.5mm)

MegaForm™ hand-formable jumper cables are ideal for “on the fly” bending when semi-rigid cables are not practical. These cable assemblies can be hand formed in-place and eliminate the cost of design and drawings which semi-rigid cables would require. Applications include cabinet interconnects, ATE, and systems integration. A wide variety of connectors are available.



JumpShot™ Cables to 18 GHz

Low Cost Jumper Cables For Systems Integration

- Replacement For RG402 And RG405
- Cost Effective
- Ultra-Flexible
- Double Shielded Outer Conductor
- Blue FEP Jacket
- .086in (1.2mm) And .141in (2.18mm) Diameters

The MegaPhase JumpShot™ is an easily installable cable designed for fixed installations such as ATE, switch matrix, and board fixtures where multiple flexures and mating cycles are not anticipated. This flexible alternative to semi-rigid RG402 and RG405 feature a small diameter and great flexibility through 18 GHz. A wide variety of connectors are available.





RF & Microwave Cables

ClearPath™ Cables to 40 GHz

Low Loss, Flexible Jumper Cables

- Light Weight Jumpers
- Low Loss
- Small Diameter
- DC-40 GHz

The ClearPath series cables offer a good trade off of cost versus insertion loss in a simple double braid construction. The cables offer excellent flexibility and can be used where light weight solutions are desired. The cables offer suitable performance when options to an expensive high performance cable is warranted. The cable is constructed using a low density dielectric protected by a flat metalized braid. Applications include automatic test equipment bays, jumpers and switch boxes where the cable will not be ruggedly handled or subjected to extreme environmental conditions. Many standardized connectors are available for interconnect solutions.



MegaPhase® Low PIM Cables to 8 GHz

Low Cost, High Performance

- Low PIM As Low As -165 dBc
- Low Loss
- Cost Effective
- Rugged Corrugated Outer Conductor
- Polyethylene Dielectric
- Wide Variety Of Connectors

MegaPhase low PIM cable assemblies are cost effective and are available with Type N, SMA, 7-16 DIN, and 4.1/9.5, 4.3/10 Mini DIN connectors. Featuring a corrugated, semi-flexible outer conductor, these designs are an excellent choice for telecommunications systems and testing when passive intermodulation-distortion is problematic within your system. The IMD performance, dependent on connectors, is as low as -165 dBc.



MegaPhase® UltraPhase™ Cables to 110 GHz

Phase And Temperature Stable Performance

- Phase Stable Over Temperature
- Phase & Amplitude Stable Vs. Flex
- Low Loss
- No PTFE "Knee" From +15 To +22 °C
- Ultra Flexible
- Light Weight

MegaPhase UltraPhase™ products offer thermal stability without sacrificing insertion loss and phase stability versus flexure. This light weight product line features linearity across a wide temperature range, without the notorious PTFE "knee" at ambient temperatures. UltraPhase™ is ideal for applications including both air-, sea-, and ground-based phased array radars, sensors, mobile backhaul, and temperature testing. A wide variety of connectors are available.



RF Wiring Harnesses

Custom And Build-To-Print Designs For Multiport RF Connections

- Multipin Connectors Including 38999
- Wide Variety Of Braid And Finish Options
- Wide Variety Of RF & Microwave Cables Available
- Airborne & Space
- Custom Multi-Port Connectors Available
- Custom Design Services Available

MegaPhase RF wiring harnesses are typically built-to-print, but MegaPhase also offers custom design services using our experience and expertise. Connectors typically include a multi-pin connector such as 38999 (MIL circular) or a custom multi-port design. Mating connectors and test harnesses also available. Phase matching available.





RF Components

N-Way Power Dividers

Highly Dependable Port-To-Port Isolation

MegaPhase offers low insertion loss solutions for both low and high power signal applications. Using lumped element or stripline circuit technology, MegaPhase standard and custom designs deliver high port to port isolation and tight phase tolerance with optimum VSWR. Our engineering team can complete and deliver first samples of most new designs within a very short lead time.



Quadrature Hybrids

Create Signal Splits And Combinations With Exceptionally Reliable Performance

MegaPhase offers 90° and 180° Hybrid couplers in both narrowband and multi-octave designs. Featuring High port to port isolation as well as exceptional amplitude and phase performance. Used to create I/Q signal splits and combinations, MegaPhase Hybrid Couplers deliver high quality as well as optimized RF performance.



Directional Couplers

The Coupling Precision You Need For Any Environment

MegaPhase offers a range of coupling values and bandwidths to suit various applications and system needs. These can be designed for the most benign laboratory environment to the rigorous demands of Military Airborne and Space systems. Tight tolerances on coupling value, directivity and insertion loss can be achieved in various packages and connector combinations.



Custom Design Capabilities

We Can Create The Solutions To Meet The Most Demanding Specs

- PTC Creo® Parametric 3D Mechanical Design
- CST Design Studio® Linear Analysis Including FD2D Filter Synthesis
- CST Microwave Studio® 3D Electromagnetic Analysis
- Sonnet® 3D Planar Electromagnetic Analysis
- Keysight PNA Vector Network Analyzers Through 110 GHz With TDR Capability

The MegaPhase Engineering team has over 100 years of combined experience in RF component, connector, and cable assembly design using state-of-the-art software tools and test equipment.





Connectors

Build-To-Print & Custom Design

Connector Design Services And Prototyping

When standard off-the-shelf RF connectors do not meet your needs, our engineering staff will work with you to design interconnect products to meet your requirements, or re-engineer obsolete connectors. MegaPhase provides excellent interconnect products which will allow you to focus on other aspects of your system design. The quality of these products is derived from the years of experience that our engineering staff has in the design of custom connectors serving the defense, commercial and aerospace industries.

Single and Multiport PCB Connectors

- **Edge, Surface, Through** mount styles
- PCB transition **simulation** included in purchase
- Available in Plug-in and thread-on connector interfaces

Custom cable harness assemblies

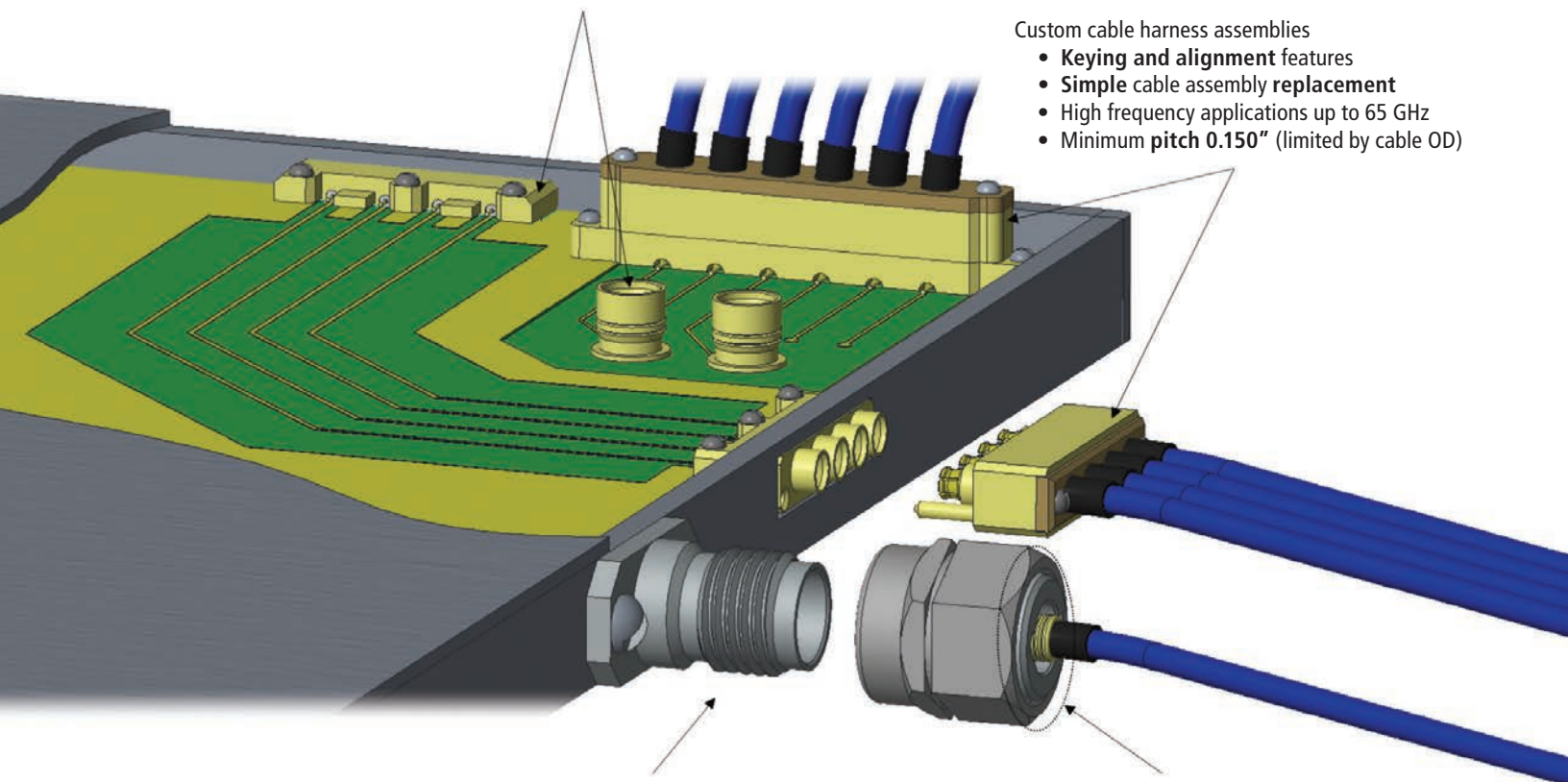
- **Keying and alignment** features
- **Simple** cable assembly replacement
- High frequency applications up to 65 GHz
- Minimum **pitch 0.150"** (limited by cable OD)

Panel Mount Connectors

- **Available in a varieties of interfaces:** SMA, 2.4mm, 1.0 mm, etc.
- Custom mounting pattern

Short Profile connector attachment

- **Maximize performance** in high density application
- Best of both worlds – **short profile** connector envelope with **90 dB isolation**.

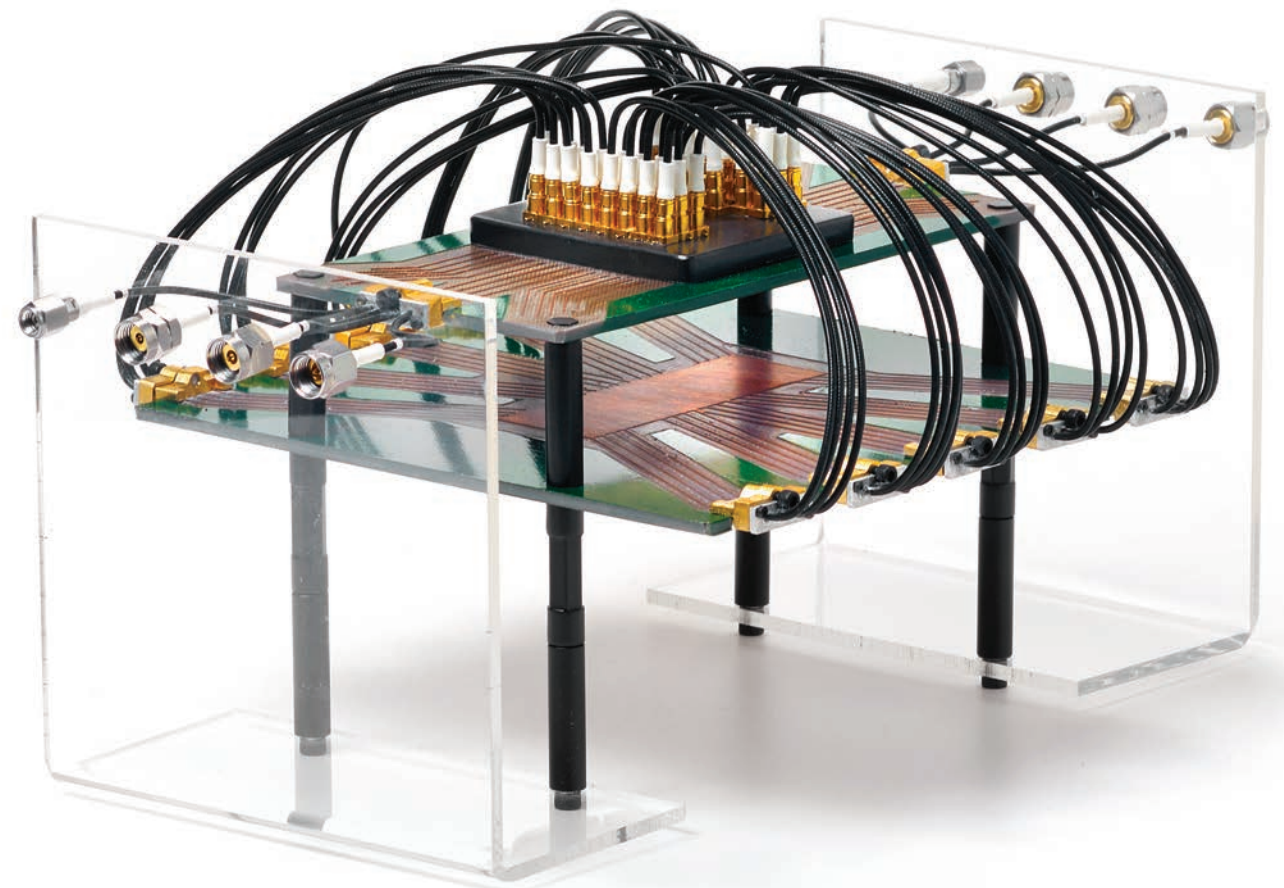


High Density Interconnects (HDI)

When Lightweight, Higher Density And Performance Are Critical

- Solutions include PCB mounting types: surface mount, through mount, surface mount right angle, and edge mount.
- Interfaces offered: 1.0mm, 2.4mm, 2.92mm, SSMA, SMP, SMPM, SMPS and more.
- Coaxial-to-PCB transition simulation service provided at **NO COST**. Our customers provide the PCB stack up (layered thickness, materials, and transmission waveguide type) and, upon completion, our customers receive the connector transition in DXF format.

The MegaPhase High-Density Interconnect product line offers a large variety of connector configurations to system designers to optimize packaging miniaturization while maintaining electrical and mechanical robustness. When lightweight, higher density and performance are critical to the application, MegaPhase's line of High-Density Interconnects and High-Density Packages is the answer. Solutions are based on snap-in interfaces, SMP, SMPM and SMPS per MIL-STD-348B. We offer PCB mount (Edge, Surface and Through mount), cable connectors, adapters, hermetics and multiports.





Connectors

NMD Connectors

Ruggedized Test Port Connectors

Most often, NMD connectors are 3.5mm, 2.9mm, 2.4mm, and 1.85mm connectors. They include a large threaded body that is specially designed to stabilize the test port cable when attached to the front of the analyzer or test set using MegaPhase test port cables.

The NMD design allows the use of standard female cables and adapters. Since the test port connectors are male connectors, they have standard inside threads that can accommodate the female connectors. It is best to use the recommended cables with NMD connectors. NMD stands for Network Measurements Division, an outdated term for the original HP division that produced the Agilent 8510A and 8720A analyzers.



ZMA Quick-Disconnect Connectors

Equivalent To SMA Through 18 GHz

MegaPhase ZMA Series precision coaxial connectors and adapters are ideal for applications where there are constraints on space. The bayonet-style coupling nut is easily mated and de-mated with a quarter turn, without the need for a torque wrench. For applications such as antenna systems, this connector provides excellent mechanical stability and eliminates the need for lock wiring in high vibration environments where space is limited. In test systems, this connector provides a fast and accurate method for continuous connects and disconnects.



The connectors are "keyed" with lugs in 2-, 3- or 4-lug styles. MegaPhase also offers a full line of in-series and between-series adapters, including SMA, through 18 GHz.

The connectors are "keyed" with lugs in 2-, 3- or 4-lug styles. MegaPhase also offers a full line of in-series and between-series adapters, including SMA, through 18 GHz.

ZN Quick-Disconnect Connectors

Equivalent To Type N Through 15 GHz

MegaPhase ZN Series precision coaxial connectors and adapters are ideal for applications where there are constraints on space. The bayonet-style coupling nut is easily mated and de-mated with a quarter turn, without the need for a torque wrench. For applications such as antenna systems, this connector provides excellent mechanical stability and eliminates the need for lock wiring in high vibration environments where space is limited. In test systems, this connector provides a fast and accurate method for continuous connects and disconnects.



The connectors are "keyed" with 3- or 4- lug style. MegaPhase also offers a full line of in-series adapters through 15 GHz.

Adapters

Precision Test Adapters

Straight & Right Angle Adapters

We have designed standard straight and right angle adapters with in-series and between-series connectors. Applications include defense and commercial uses, and they are ideal for Probe Station Testing through 50 GHz. Our adapters feature linear phase slope, low SWR, and high reliability.



Factory Form Right Angle

Unique Permanent Right Angle Design

The Factory Form Right Angle design will extend the life of your cable assemblies without sacrificing electrical performance. MegaPhase designed the Factory Form Right Angle as a replacement for right-angled connectors and test adapters. The unique permanent curved flexure minimizes electrical reflection and loss found in right-angled connectors and adapters. It provides the necessary space needed for cable mate/de-mate processes.





Accessories

Torque Products

Torque Wrenches (Break-Over Style) And Torque Limiting Screwdrivers

Torque Wrenches (Break-Over Style)

The "Break-Over" torque wrenches are essential to limiting the amount of torque applied to your product or equipment during testing or assembly. When the preset torque value is reached the torque wrench "breaks-over" indicating torque has been reached and eliminating overtightening. The wrenches are designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting). The wrenches have color coded aluminum handles for specific connector types and torque values.

Torque Limiting Screwdrivers

The torque limiting screwdrivers are essential to limiting the amount of torque applied to your product or equipment during testing or assembly. When the preset torque value is reached the torque screwdriver "slips-free" indicating torque has been reached and eliminating overtightening. The screwdriver is torque limiting in the clockwise direction only (tightening). The torque limiting screwdrivers are designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003 ($\pm 6\%$ of setting). The screwdrivers have color coded aluminum handles for specific connector types and torque values. Coupling torque values are determined by connector type. For more information on connector couple torques refer to the Technical Reference for RF Interconnects.



Oasis® Custom-Made Cable and Adapter Kit

A Complete Kit At The Tips Of Your Fingers

- Choose Your Cable Types
- Designed for Field Applications
- Choose Your Connectors
- Reliable Measurements of Base Stations
- Choose Your Adapter
- Military Communications Setup

The Oasis® custom cable and adapter kits are equipped to your custom specifications from cable type, connectors, adapters, and accessories such as torque tools. These kits were originally designed for US Military applications, including set-up of communications and EW antennas. Today this kit is widely used for field testing of telecom systems.



Custom Rack Systems

Rack-Mounted Power Dividers with Monitor Ports

Dividing And Monitoring Power Made Easy

MegaPhase now offers custom rack-mounted components for telecom testing. Pictured is a rack that includes twelve 6-way power dividers with quick-connect HPQN connectors from 678 to 2700 MHz. Each divider includes a monitor port for quick signal checks. The monitor port coupling values are typically $-3.0/+2.0$ dB. These low loss dividers feature a minimum 17dB of isolation, phase balance of ± 10 degrees, and amplitude balance of ± 0.5 dB.

Contact MegaPhase Customer Solutions to design a custom rack. MegaPhase designs and assembles passive components including power dividers, combiners, hybrids, directional couplers, and many others.

Power Divider Electrical Specifications:

- VSWR In/Out: 1.6:1 Max/1.4 Typ.
- Ins. Loss*: 2.0 Max/1.75 Typ.
- Phase Balance: ± 10 Degrees
- Amp Balance: ± 0.5 Db
- Isolation: 17 Db min

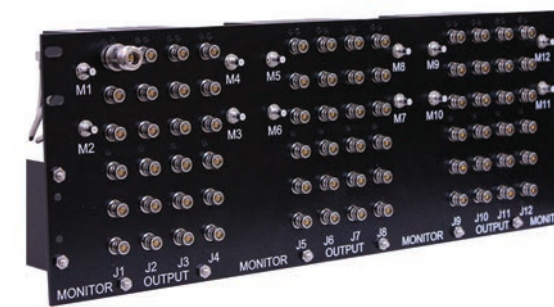
* Insertion loss is the calculated average of all six ports minus the nominal coupling of 7.78

Monitor Specifications: Coupling: -40dB Coupling -5.0/+3.0 Db

Mechanical Specifications:

- Connectors:
 - Quick Disconnect Type N
 - QMA
- Weight: 20 LBS
- Temperature Rating: -50°C to $+85^{\circ}\text{C}$
- Standard 19" Rack Mount/4 RU Height

All parts designed and manufactured by MegaPhase in the USA.



Don't Take Our Word For It.

**"I wanted to take the moment to thank you
for the hasty turn around on our cables that we ordered.
The service was fantastic, as always, we will look
toward MegaPhase for all of our continued cabling needs. "**
A senior buyer at a leading space systems company.

**"Thank you so much for your prompt response on
this matter. I have made notes in our system
to NEVER use [your competitor] again and to
try MegaPhase for those needs.
Just wanna say thanks again for your help!
Have a great day!"**
A buyer at a compliance test lab.

**"We have always been very satisfied
with the quick service and delivery
we receive from MegaPhase."**
**A test engineer at a large
semiconductor OEM**

**"My guys in [our corporate location]
love these MegaPhase cables!
We'll buy more this year."**
**A senior RF test system designer
at a large mobile phone OEM**

MegaPhase®

Our cables, and RF components, our exceptional value,
and our incomparable service have our customers –
and the entire industry –
talking. Give us a call or visit us online and
we'll have you talking too.

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