

MICROWAVE INTERCONNECT PRODUCTS



THE CUSTOMER EXPERIENCE

Partner with Teledyne Storm Microwave and you'll find "best fit" means more to us than just offering the right product. It also means providing the right services and technical expertise to support your unique needs.

RELIABLE

- Over 35 years supplying high performance microwave cable assemblies for a wide range of challenging applications
- Broad range of products designed and tested for stable, dependable performance
- Cable produced internally to ensure predictable performance
- Company-wide commitment to meeting customers' scheduling and product performance expectations

RESOURCEFUL

- Facing an aggressive build schedule and armed with only a project outline, Storm develops 250 unique, phase matched, blindmate cable assembly configurations and delivers them ahead of schedule; exceeding customer expectations for a turn-key solution.
- Responding to a key customer's need to reduce system costs, Storm develops a new high performance ePTFE cable product that meets the system requirements for less than 30% of the cost of alternative SiO₂ products.
- Addressing a key customer's need for a miniature cable that combines flexibility, shielding effectiveness, and low attenuation, Storm develops a new cable with an innovative shield construction and delivers finished assemblies that exceed customer performance requirements.

QUALITY POLICY

Teledyne Storm Microwave is committed to meet or exceed our customers' expectations through continual improvement focused on time, value, and performance.



AS9100

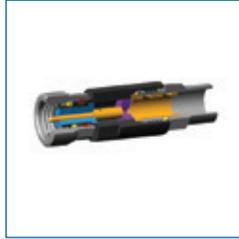
ISO 9001

READY

- 35+ years of proven product solutions to "jump start" new challenges
- Standard cable products—built and tested by Storm—available off the shelf and online at www.teledynestorm.com/WebStore
- Production staff and systems geared toward high mix, short run
- Experienced application engineering staff knowledgeable in microwave systems
- Interactive product data available; visit www.teledynestorm.com and click on a product category

MARKET FOCUS

Teledyne Storm Microwave has been providing high quality interconnect products and cable assemblies to the following domestic and international markets since 1978:



TAILORED SYSTEMS SOLUTIONS

Custom products for **defense and aerospace programs** that require:

- High levels of mechanical and electrical performance under extreme environmental conditions
- Product configured to meet program needs
- Strong support during system development
- Reliable performance over time



HIGH PERFORMANCE CABLE ASSEMBLIES

For **defense and commercial systems** and **test & measurement applications** that require:

- Rapid product availability and quick-response service
- Durability and reliability over time with use
- Stable microwave performance



BUILD-TO-PRINT MANUFACTURING SERVICES

For **defense and test equipment customers** who require:

- 50 Ohm semi-rigid or flexible configurations
- High mix, low- to mid-volume production
- Reliable performance as a critical parameter
- Support during customer's product development cycle
- Support for demanding schedules
- Blindmate connector interface expertise

MICROWAVE INTERCONNECT PRODUCTS

STORM FLEX®



MINIATURE CABLE ASSEMBLIES

Available in three sizes, Storm Flex® cable assemblies offer a durable, cost effective solution to many microwave system design and test challenges...

BENEFITS

- Easier to specify and use than semi-rigid cable alternatives
- Tougher to break or crush than conformable, ePTFE, or comparable flexible cable alternatives
- Available in a broad range of connector interfaces, including blindmate and multiport
- Immediate availability in a number of standard SMA lengths

FLEXCORE™



HIGHLY FLEXIBLE, STRANDED CABLE ASSEMBLIES

The cable to turn to when extended product life cycle and RF performance stability is a prerequisite...

BENEFITS

- Stable electrically and mechanically at more than 100K flexures
- Ease of installation in tight configurations
- Low lateral force on connectors
- Improved system performance
- Less frequent calibration and more precise measurements

TRUE BLUE®



LOW LOSS CABLE ASSEMBLIES

Provides a great balance of loss, cost, and durability...

BENEFITS

- Excellent insertion loss and amplitude stability
- Durable construction less prone to damage during installation or use
- Available in several cable sizes and a wide variety of connector interfaces, including blindmate and multiport
- Immediate availability in a number of standard SMA lengths
- Armoring options available

dB MISER™



ULTRA LOW LOSS CABLE ASSEMBLIES

The clear choice when loss is the most important consideration...

BENEFITS

- Lowest insertion loss for a given diameter
- Excellent amplitude stability with flexure
- Stable performance over temperature
- Exceptional connector retention
- Armoring options available

ACCU-TEST®



PHASE STABLE TEST & MEASUREMENT CABLE ASSEMBLIES

Option number one for applications where phase vs. flexure is more critical...

BENEFITS

- Repeatable phase measurements with flexure
- Extremely durable construction extends assembly life
- Armoring options available

PHASE MASTER®



PHASE STABLE CABLE ASSEMBLIES

Ideal for applications requiring flatter phase vs. temperature performance or improved phase tracking over temperature...

BENEFITS

- Exceptional phase stability over temperature performance
- Good phase stability with handling
- Flexible, lightweight construction
- Armoring options available
- Enhanced Phase Master® offers lowest RF leakage

MAXIMIZER™



HIGH PERFORMANCE SEMI-RIGID

Available as custom-built assemblies, in coils, or in a variety of straight lengths, with copper, tin, or silver-plate finish...

BENEFITS

Phase Stable Low Loss : Maximizer™ Gold

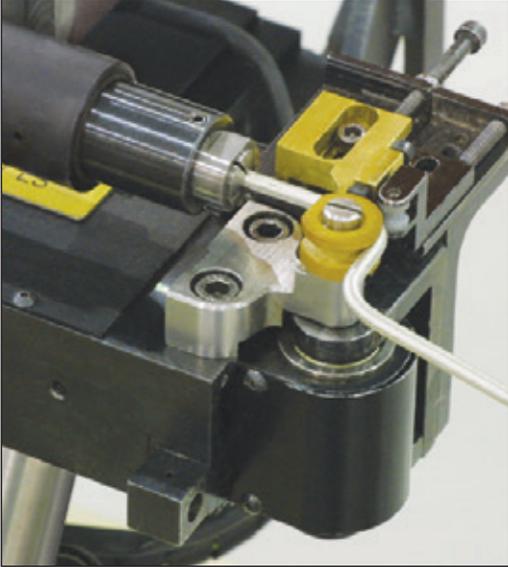
- Flatter phase vs. temperature performance
- Reduced insertion loss...up to 30% lower
- Higher power handling capability
- Mechanical stability over wide temperature range

Low Loss RG Replacement : Maximizer™ Silver

- Reduced insertion loss at high frequencies...up to 18% lower than solid PTFE cables
- No dielectric expansion during soldering process
- Accepts standard connectors, increasing cost effectiveness

CAPABILITIES

BUILD-TO-PRINT ASSEMBLIES



MANUFACTURING CAPABILITIES

- Semi-rigid and flexible microwave cable assembly production
- Automated, precision cable cutting and trimming
- Automated cable bending — 0.034" to 0.250" ODs
- Cable pre-conditioning — -62°C to 175°C
- High reliability soldering per J-STD-001, class 3
- Extensive experience in miniature blindmate interfaces
- Automated phase matching
- Automated data collection

TEST & MEASUREMENT CAPABILITIES

- VSWR, insertion loss and phase through 67 GHz
- Automated phase tracking vs. temperature
- Vibration, shock and thermal shock
- Cold bend, stress crack resistance
- Flex life, connector retention
- Shielding effectiveness
- Humidity
- Additive phase noise
- Real time x-ray

MULTI-CHANNEL MICROWAVE SOLUTIONS



A dedicated engineering staff is maintained for the design and manufacture of multi-channel microwave harness assemblies. 38999 Connector expertise.

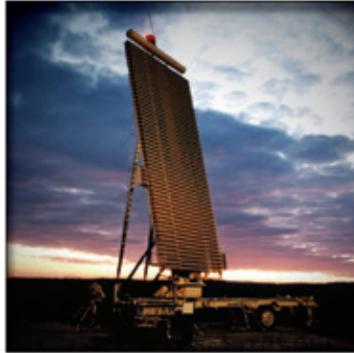
Standard harness configurations and **tailored harnesses** engineered to suit specific applications. Useful in a wide range of airborne, ground, and sea-based systems, both military and commercial. For more information, visit www.teledynestorm.com/harness_solutions.asp

BENEFITS

- Durability
- Simplified Wire Management
- Simplified Wiring Installation
- Guaranteed Correct Connection
- Increased Connector Density
- Added Cable Protection



Defense Electronics



Radar



Wireless



Test Equipment /
Systems