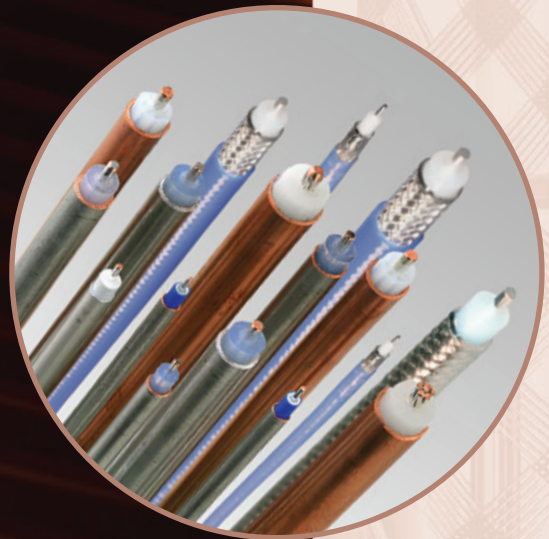
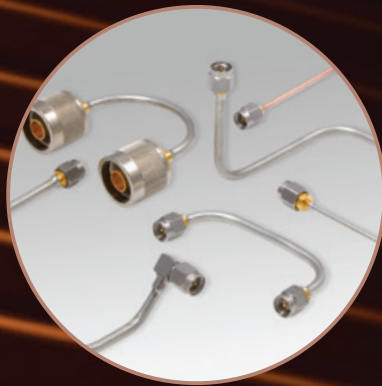




# EZ FORM CABLE

AS9100 CERTIFIED

## Capabilities Brochure



# A HISTORY OF

## Applications We Support



Military / Radar



Quantum Computing



Military / Aviation

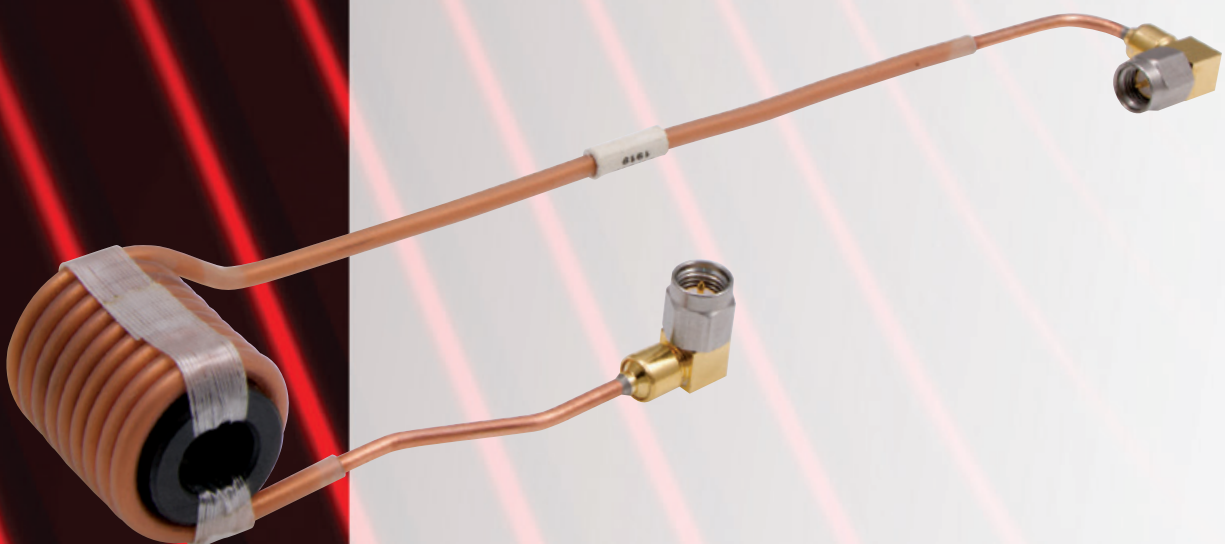
## ABOUT US

**EZ Form Cable**, a Trexon Company, is an AS9100D certified manufacturer of RF & Microwave cable, cable assembly and interconnect products for critical applications common in Military, Aerospace, Telecom, Industrial, Instrumentation & Test, Medical, and Quantum Computing.

EZ Form's comprehensive product offering includes industry-leading design and manufacturing of semi-rigid, formable and flexible coaxial cable and assemblies, phase matched & phase stable cable assemblies, coaxial delay lines and RF connectors.

### EZ Form Products:

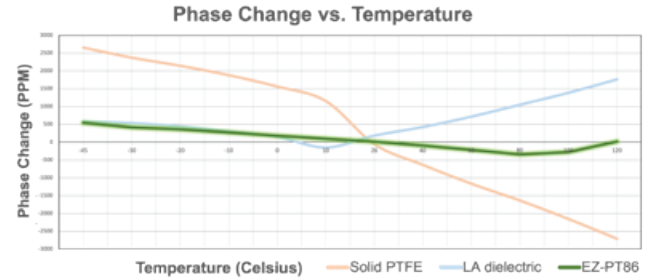
- 27 Products Qualified to Mil-DTL-17
- Problem-Solving Connector Designs
- Special Impedance Cables
- Phase Stable Cable & Assemblies
- Phase-Matched Cable Assemblies
- Low-loss Cable & Assemblies
- Uniquely Configured Delay Lines
- Build-to-Print Solutions
- Custom Connectors
- Coaxial Balun Transformers



## COAXIAL CABLE

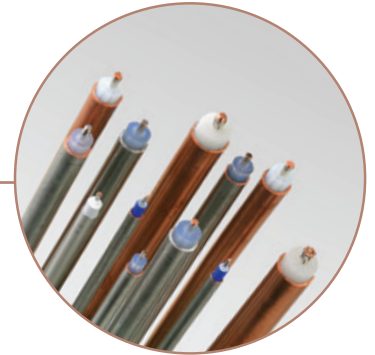
### PHASE STABLE CABLE

- EZ Form Phase Stable dielectric will reduce the Teflon “knee” found in traditional PTFE coax cable
- EZ-PT Phase Stable cables are available in both build-to-print cable assemblies or as bulk cable
- We supply RF connectors for the EZ-PT86 Phase Stable cable



### SEMI-RIGID CABLE

- Unique & easy-to-bend construction that holds its finished shape after forming or bending
- Ideal for automated bending equipment and hand forming
- Cable diameters from .020” to .500”
- Cu, Al and stainless jacket material in coils up to 150 feet
- 27 cables qualified to MIL-DTL-17 (QPL listed)
- Special impedances available i.e. 15 Ohm, 25 Ohm, 93 Ohm
- Tin, Tin-Lead, Silver and other platings available



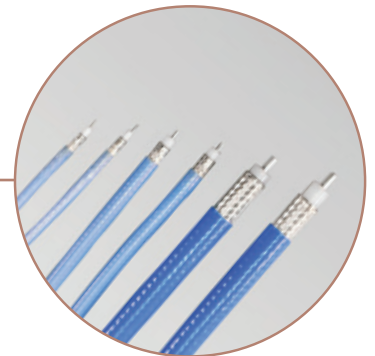
### EZ-FLEX FORMABLE™ CABLE

- These flexible cables have the performance of semi-rigid cables in a hand formable option requiring no tooling
- 100% shielding and easily shaped by hand
- Compatible with solder-on connectors made for semi-rigid
- Tinned braid
- .047 / .086 / .141 / .250 versions - jacketed versions available
- Cu-Sn outer conductor has shielding equivalent to semi-rigid
- Non-magnetic versions available



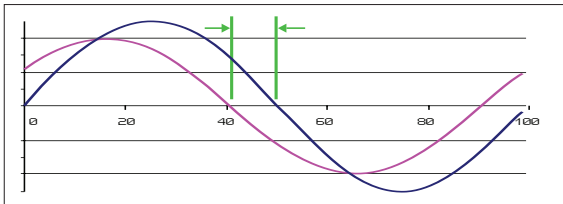
### EZ-FLEX™ CABLE

- EZ-Flex™ 401, 402, and 405
- Truly flexible high-performance microwave cable comparable to semi-rigid, yet handles like RG type cables
- Double shielded construction
- Low RF leakage and VSWR
- High durability and low weight



## CABLE ASSEMBLY AND FABRICATION

- Semi-Rigid
- EZ-Flex™
- EZ FormAL™
- EZ-Flex Formable™
- Phase-Matched
- Phase-Stable



### PHASE-MATCHED ASSEMBLIES

- Tolerances of  $\pm 1^\circ$  per GHz
- Certified in a fully-equipped electrical testing facility
- Performance tested by dedicated test engineers
- Can be manufactured in straight, configured or custom designs
- Backed by years of experience in RF engineering



### SEMI-RIGID CABLE ASSEMBLY

- Manufactured by Certified IPC Specialists (CIS)
- Configured to meet the tightest of tolerances
- Unparalleled performance
- Rapid tooling for quick deliveries



### FORMABLE CABLE ASSEMBLIES

- Full catalog of standard connectors available
- No complicated drawings or expensive bending/tooling necessary with EZ-Flex Formable™
- Copper-tin composite outer conductor provides 100% shielding
- Easily shaped by hand



### FLEXIBLE CABLE ASSEMBLIES

- Precision fabrication
- Manufactured using latest trimming and crimping technologies
- Can build to print in virtually any length using any connector/cable combination
- RF Coax harnessing available as required
- Long life under rough and continuous use

# ABILITIES

## DELAY LINES & CONNECTORS

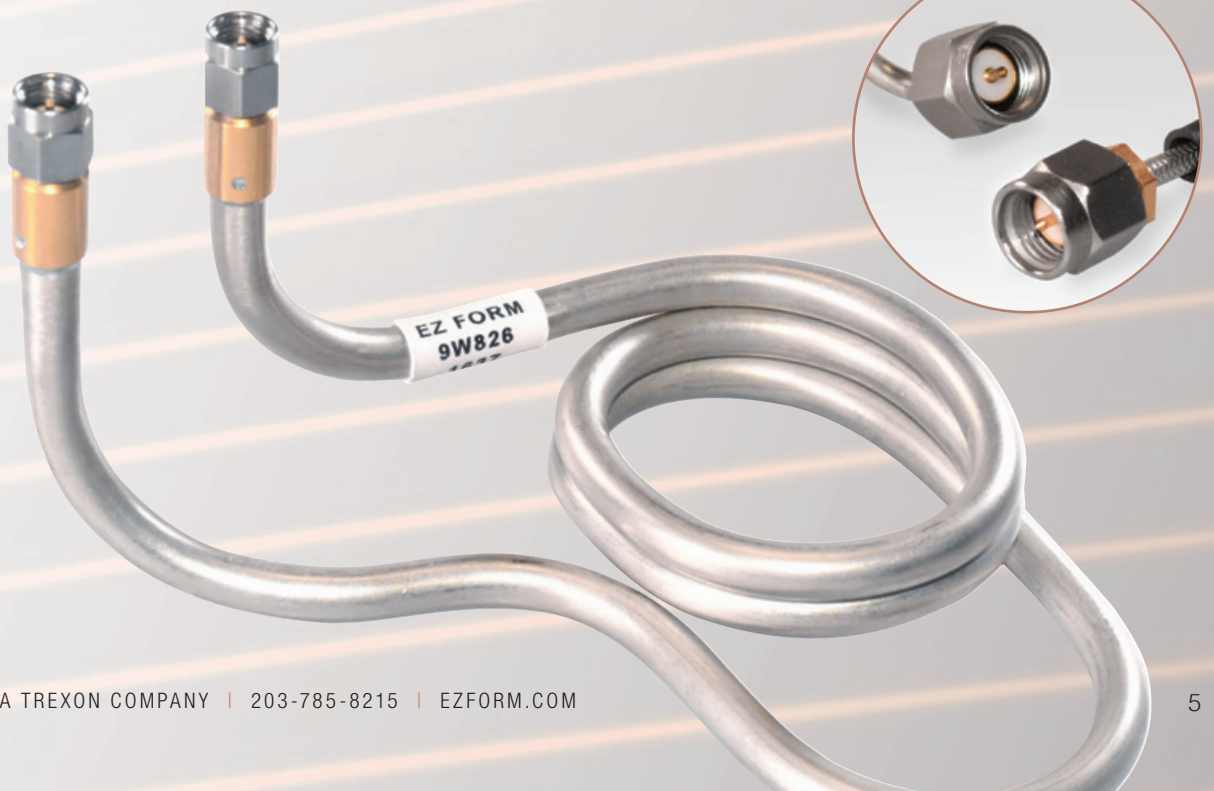
### DELAY LINES

- Cables shaped to the tightest configurations while meeting stringent performance and exact mechanical requirements
- Standard delay lines that fit a wide range of needs with short lead-times
- Standard delay tolerances +/- 1ns, or as tight as +/- 20ps on custom orders
- Delay lines can be assembled into custom boxes as required
- Offered in Cu and Al outer conductor materials

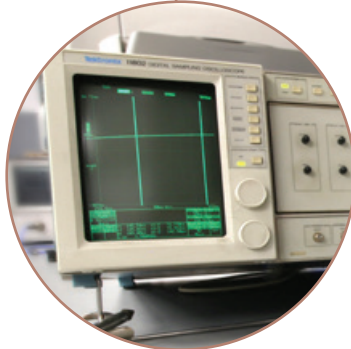
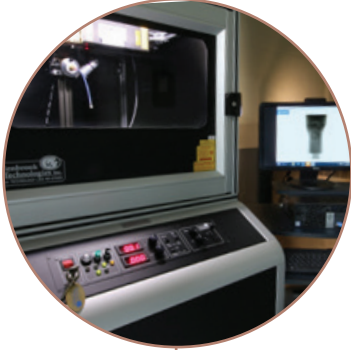


### RF CONNECTORS

- Available Interfaces: BMA, BNC, MCX, MMCX, N, SMA, SMB, TNC, SMP, SMPM
- Both cable and board mount configurations available
- Customized designs available upon request
- Non-magnetic versions available
- Interfaces are per Mil-STD-348 and are available in various configurations to meet mounting and performance requirements



## OUR SERVICES



**EZ Form Cable** facilities feature the latest in cable design, fabrication and testing technologies combined with over 80 years of engineering experience. Our state-of-the-art manufacturing facilities utilize the latest in Schleuniger® trimming technologies, induction and resistance soldering equipment, custom fixturing, 3D printing for quick turn tooling and the largest stock of raw material for fast deliveries.

Our team of engineers use the most current versions of AutoCAD and Solidworks for connector and tooling design along with a dedicated test lab to ensure the highest quality of manufactured assemblies.

### **EZ Form Services:**

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- Certified IPC Specialists Work with You
- Research & Development
- Design Engineering
- Component Assembly
- Fabrication & Manufacturing
- Mechanical & Electrical Testing
- Phase vs. Temp Measurement
- 100% Inspection



# QUALITY

## QUALITY

**EZ Form Cable** has an established quality management system that is in conformance with the International Quality System Standard AS9100D and ISO 9001:2015. The scope of this registration is for the design and manufacture of RF Coaxial cable, connectors and related components specific to the aerospace industry and other commercial applications. The certification to the IPC/WHMA-A-620A standard defines the requirements and acceptance for cable and wire harness assemblies, as developed and approved by the industry.



## TESTING

### EZ Form Advanced Testing:

- Strict Adherence to Your Specifications
- Phase-Matched within One Degree per GHz
- S-Parameter Testing DC to 40 GHz
- X-Ray Equipment
- High Voltage Testing to 6kV
- VSWR Testing
- Corona Extinction Voltage
- Insertion Loss Testing
- Delay Lines with Tolerances to +/- 20pS
- Continuity Testing

### Applications We Support



Medical / MRI



Aerospace / Satellites



Missile Defense Systems



Drone Technology



EZFORM.COM



**EZ FORM CABLE**

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