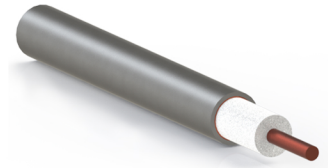




## Silicon Dioxide (SiO<sub>2</sub>) Cable Assemblies

Measure Tech's SiO<sub>2</sub> cable assemblies are the ideal choice for applications requiring phase stability and high performance in extreme operating environments.



### Features

- Silicon dioxide dielectric
  - 50 ohm nominal impedance
  - Hermetically sealed assembly
  - Semi-rigid (hand formable)
  - Cables can be bent per customer's requirements
  - Excellent phase and loss versus temperature performance (does not exhibit PTFE "knee")
  - Cables can be phase matched
  - Withstands temperatures exceeding 900°C
  - High reliability
  - Ideal for performing in extreme environments
- Connector welds are qualified to 500 lb. pull test



### Fabrication

Measure Tech's SiO<sub>2</sub> cable's are manufactured with extruded 99.9%+ silicon dioxide. The outer jacket is a composite material made of 304 series stainless steel and OFHC copper (outer conductor). The center conductor is OFHC copper or can be changed to meet specific requirements. The cables are welded to the hermetically sealed connectors to form a complete assembly. The assemblies are back filled and leak tested to ensure hermeticity. All cables are tested and include SWR and loss data for each cable.

**Contact Measure Tech's experienced engineering team to discuss your SiO<sub>2</sub> cable requirements. We can offer an excellent product for your application with a fast response time and overall product delivery.**

### Connectors

Measure Tech designs and manufactures all connectors in-house. The connectors are hermetically sealed with a fired glass seal to provide excellent microwave performance. Connectors are manufactured per military specifications such as SMA, N, and TNC. Custom connectors can be designed to meet customer's requirements.



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