

SiO₂ Phase Stable Cable Assemblies

- Ultimate in Phase Tracking
- All Phase Sensitive Systems
- Semi-Rigid Style
- Extreme Environments
- All System Platforms
(Ground, Sea, Airborne and Space)

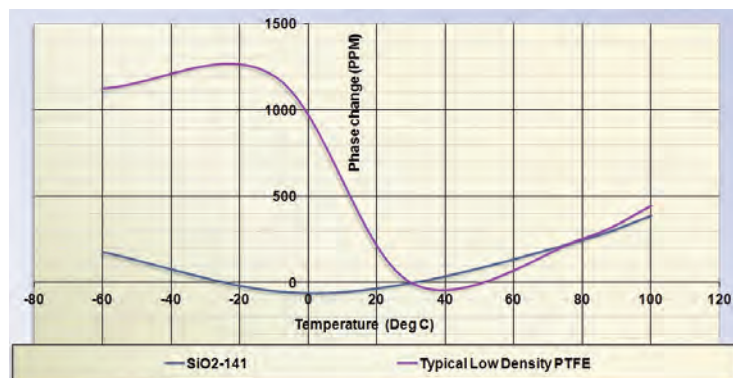


Times SiO₂ cable assemblies are used in applications demanding the ultimate in phase tracking performance. SiO₂ semi-rigid cable assemblies use a proprietary Silicon Dioxide dielectric material allowing use in extreme environments.

As with other products in the PhaseTrack[®] product line, the dielectric formulation does not have the abrupt shift in phase that occurs with solid or tape wrapped PTFE based products under normal room ambient conditions.

Features:

- Ultimate Phase Tracking Performance
- PTFE “Knee” is Nonexistent
- SiO₂ Dielectric Technology
- Semi-Rigid Construction
- Withstand Extreme Environments



Part Number	SiO2-090	SiO2-141	SiO2-200	SiO2-270
Dielectric Technology	Silica Paste	Silica Paste	Silica Paste	Silica Paste
Diameter (in)	0.0	0.141	0.200	0.270
Minimum Bend Radius	0.360	0.564	0.800	1.080
Mass (lbs/1000 feet)	15.0	24.0	44.0	75.0
Temperature Rating	-273C to + 1000C			
Center Conductor	Oxygen Free Copper			
Outer Conductor	Oxygen Free Copper			
Jacket	304 Stainless Steel			
Characteristic Impedance	50 Ohms			
Velocity of Propagation	80%	80%	80%	80%
Cutoff Frequency (GHz)	60	50	25	18
Delay (nS/foot)	1.27	1.27	1.27	1.27
Capacitance (pF/foot)	25	25	25	25
Shielding	-120 dBc/ft			
Loss @ 6 GHz (db/100 feet)	41.3	27.3	18.7	14.8
Loss @ 18 GHz (db/100 feet)	80.6	56.4	41.5	38.8
K1	0.13900	0.082	0.047	0.031
K2	0.012	0.012	0.012	0.012

SiO₂ cable assemblies are only one of the Times Microwave Systems product families developed to solve demanding Phase Critical Applications:

- PhaseTrack® flexible cable assemblies for absolute and tracking phase applications
- PhaseTrack® LS flexible cable assemblies for Low Smoke phase applications
- PhaseTrack® SR semi-rigid cable assemblies for absolute and tracking phase applications
- SiO₂ Silicone Dioxide dielectric semi-rigid cable assemblies for ultimate phase tracking performance

Times Microwave Systems Applications Engineers are available to help you specify PhaseTrack® cable assemblies. Contact a PhaseTrack® specialist at PhaseCritical@timesmicro.com

For Performance, Quality and Reliability you can count on, count on Times Microwave Systems - The Leader



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