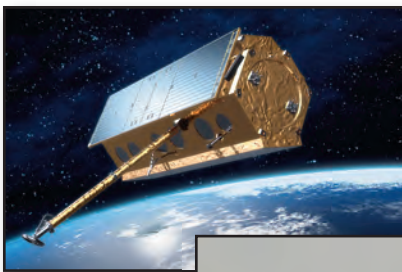


# SiO<sub>2</sub>

## *SiO<sub>2</sub> 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)

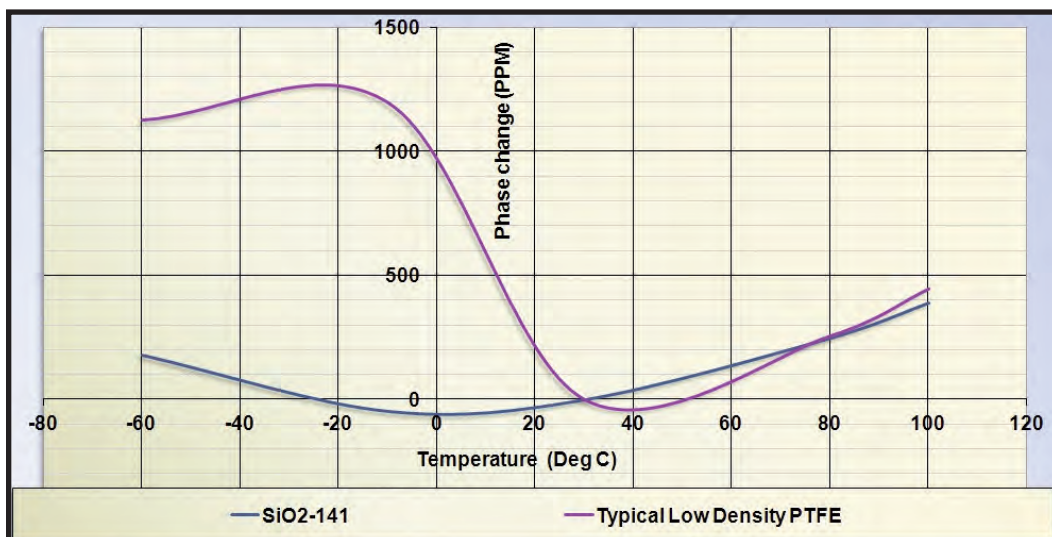


Times SiO<sub>2</sub> cable assemblies are used in applications demanding the ultimate in phase tracking performance. SiO<sub>2</sub> semi-rigid cable assemblies use a proprietary Silicon Dioxide dielectric material allowing use in extreme environments.

As with other products in the PhaseTrack<sup>®</sup> 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.

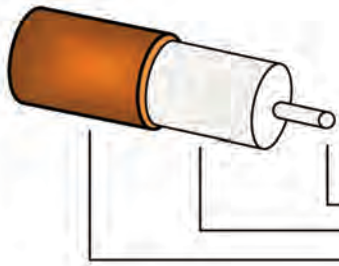
### Features:

- Ultimate Phase Tracking Performance
- PTFE “Knee” is Nonexistent
- SiO<sub>2</sub> Dielectric Technology
- Semi-Rigid Construction
- Withstands Extreme Environments



# SiO2

## SiO2® Construction



Center Conductor	Oxygen Free Copper
Dielectric	Ultra High Purity Silica
Outer Conductor	Copper Clad Stainless Steel

Part Number	SiO2-090	SiO2-141	SiO2-270
Dielectric Technology	Silica Paste	Silica Paste	Silica Paste
Diameter (in)	0.090	0.141	0.270
Minimum Bend Radius	0.360	0.564	1.080
Mass (lbs/1000 feet)	15.0	24.0	75.0
Temperature Rating	(Available)	-273C to + 1000C	Standard (-80 to +300)
Center Conductor	Oxygen Free Copper		
Outer Conductor	Oxygen Free Copper		
Jacket	304 Stainless Steel		
Characteristic Impedance	50 Ohms		
Velocity of Propagation	80%	80%	80%
Cutoff Frequency (GHz)	60	50	18
Delay (nS/foot)	1.27	1.27	1.27
Capacitance (pF/foot)	25	25	25
Shielding	-120 dB Minimum		
Loss @ 6 GHz (db/100 foot)	41.25	27.3	14.8
Loss @ 18 GHz (db/100 foot)	80.6	56.4	34.8
K1	0.439557	0.259307	0.098031
K2	0.0012	0.0012	0.0012
Product Code	AA9790	AA9789	AA9779
Stock Code	25090	25141	25270