

Phase Stable Cable Assemblies

- Phased Array Systems
- System Interconnects
- Phase Stable Test Cables
- All System Platforms
(Ground, Sea, Airborne and Space)

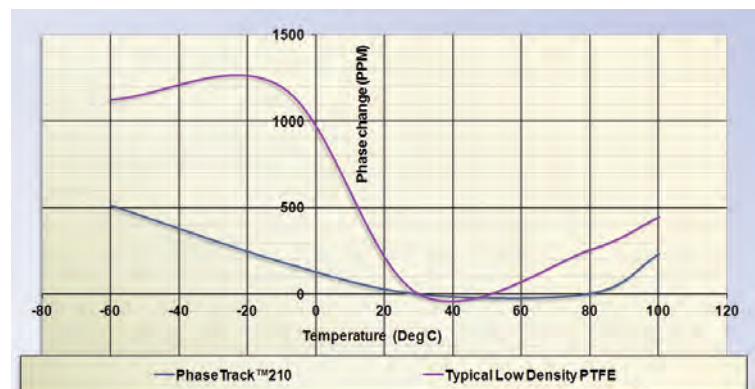


PhaseTrack® cable assemblies are designed for applications demanding minimal phase change over temperature. All PhaseTrack cables use proprietary TF4™ dielectric that does not have the abrupt shift in the phase that occurs with solid or tape wrapped PTFE based products under normal room ambient temperature conditions.

PhaseTrack cable has the same triple shield construction used in Times popular SF, SFT, SilverLine and MT cables.

Features:

- Superior Stability (vs LD PTFE)
- PTFE "Knee" is Nonexistent
- TF4 Dielectric Technology



Part Number	PT130	PT180	PT210	PT318
Dielectric Technology	TF4	TF4	TF4	TF4
Diameter (in)	0.145	0.180	0.220	0.315
Minimum Bend Radius	0.750	1.000	1.125	1.750
Mass (lbs/1000 feet)	24.0	36.0	46.0	90.0
Temperature Rating	-55C to +150C			
Center Conductor	Oxygen Free Silver Plated Copper			
Outer Conductor	Silver Plated Copper Strip Braid			
Jacket	Blue FEP			
Characteristic Impedance	50 Ohms			
Velocity of Propagation	82.5%	83.0%	83.0%	83.5%
Cutoff Frequency (GHz)	52.4	38.7	29.6	18.9
Delay (nS/foot)	1.23	1.23	1.23	1.22
Capacitance (pF/foot)	24.7	24.6	24.4	24
Shielding	-90 dB/ feet			
Loss @ 6 GHz (db/100 feet)	38.4	30.5	24.6	16.7
Loss @ 18 GHz (db/100 feet)	70.8	58.5	48.4	34.7
K1	0.45320	0.33627	0.25971	0.15565
K2	0.00055605	0.00074129	0.00075526	0.00076725

PhaseTrack® 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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