

Phase Stable Cable Assemblies For:

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

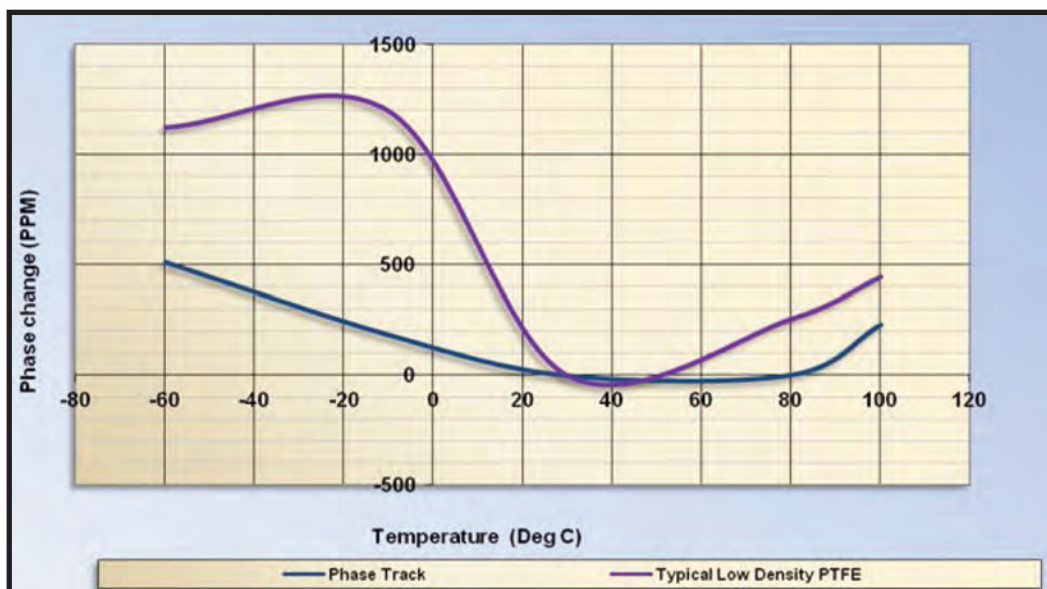


PhaseTrack® cable assemblies are designed for applications demanding minimal phase change over temperature. All PhaseTrack cables use proprietary TF4® dielectric that does not have the abrupt shift in the phase that occurs with solid or tape wrapped PTFE based products under normal room ambient temperature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

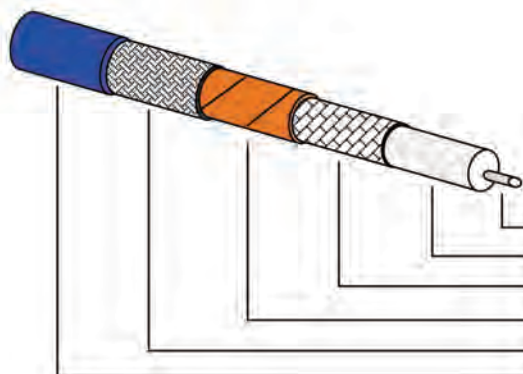
PhaseTrack cable has the same triple shield construction used in Times popular SF®, SFT®, SilverLine® and MT cables.

Features:

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



PhaseTrack® Construction



Center Conductor	Silver Plated Copper*
Dielectric	TF4 Dielectric
Shield	Silver Plated Copper
Interlayer	Metalized Polyimide Tape
Outer Braid	Silver Plated Copper Braid
Jacket	Blue FEP

Part Number	PT110	PT150	PT180	PT210	PT318
Dielectric Technology	TF4®	TF4®	TF4®	TF4®	TF4®
Diameter (in)	0.108	0.145	0.180	0.220	0.315
Minimum Bend Radius	0.550	0.750	1.000	1.125	1.750
Mass (lbs/1000 feet)	14.0	24.0	36.0	46.0	90.0
Temperature Rating	-55C to +150C				
Center Conductor	Silver Plated Copper Clad Steel	Silver Plated Copper			
Outer Conductor	Silver Plated Copper Strip Braid				
Jacket	Blue FEP				
Characteristic Impedance	50 Ohms				
Velocity of Propagation	82.5%	82.5%	83.0%	83.5%	83.5%
Cutoff Frequency (GHz)	80.0	52.4	38.7	29.0	18.9
Delay (nS/foot)	1.23	1.23	1.23	1.23	1.22
Capacitance (pF/foot)	24.7	24.7	24.6	24.4	24.0
Shielding	-90 dB Minimum				
Loss @ 6 GHz (db/100 feet)	64.0	38.4	30.5	24.6	16.7
Loss @ 18 GHz (db/100 feet)	121.0	70.5	58.5	48.4	34.7
K1	0.72391	0.4532	0.33627	0.25971	0.15565
K2	0.0013239	0.00055605	0.00074129	0.00075526	0.00076725

*PT110 uses silver plated, copper clad steel as a center conductor.