

PhaseTrack® SR

Phase Stable Cable Assemblies For:

- Phase-Optimized
- Semi-Rigid Cables
- All Phase Sensitive Systems
- All System Platforms
(Ground, Sea, Airborne and Space)



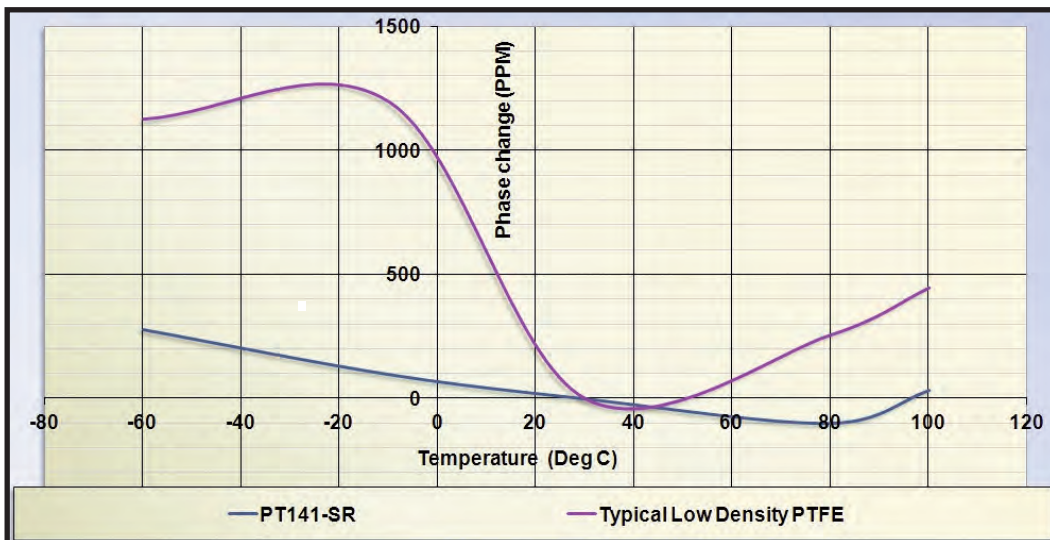
PhaseTrack® SR cable assemblies are designed for applications demanding minimal phase change over temperature.

PhaseTrack® SR cable assemblies are a classic semi-rigid-style cable with optimized phase performance.

PhaseTrack® SR cables use proprietary TF4™ dielectric that does not have the abrupt shift in phase that occurs with solid or tape wrapped PTFE based products under normal room ambient conditions.

Features:

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



PhaseTrack® SR

PhaseTrack®-SR Construction



Center Conductor	Silver plated Copper*
Dielectric	TMS TF4 Dielectric
Outer Conductor	Bare Copper Tube

Part Number	PTSRB047	PTSRB085	PTSRB141
Dielectric Technology	TF4™	TF4™	TF4™
Diameter (in)	0.047	0.085	0.141
Minimum Bend Radius	0.15	0.25	0.425
Mass (lbs/1000 feet)	4.5	14.2	29.0
Temperature Rating	-55C to + 125C		
Center Conductor	Silver Plated Copper Clad Steel		Silver Plated Copper
Outer Conductor	Bare Copper		
Jacket	NA		
Characteristic Impedance	50 Ohms		
Velocity of Propagation	82.5%	82.5%	82.5%
Cutoff Frequency (GHz)	138.5	80.2	38.4
Delay (nS/foot)	1.23	1.23	1.23
Capacitance (pF/foot)	24.6	24.6	24.6
Shielding	-110 dB Minimum		
Loss @ 6 GHz (db/100 foot)	96.3	55.2	28.2
Loss @ 18 GHz (db/100 foot)	173.8	102.9	54.8
K1	1.17249	0.63712	0.30382
K2	0.00091751	0.0009676	0.00077836

*PTSRB047 and PTSRB085 use silver plated, copper clad steel as a center conductor.