

PhaseTrack® PFlex

Phase Stable Cable Assemblies For:

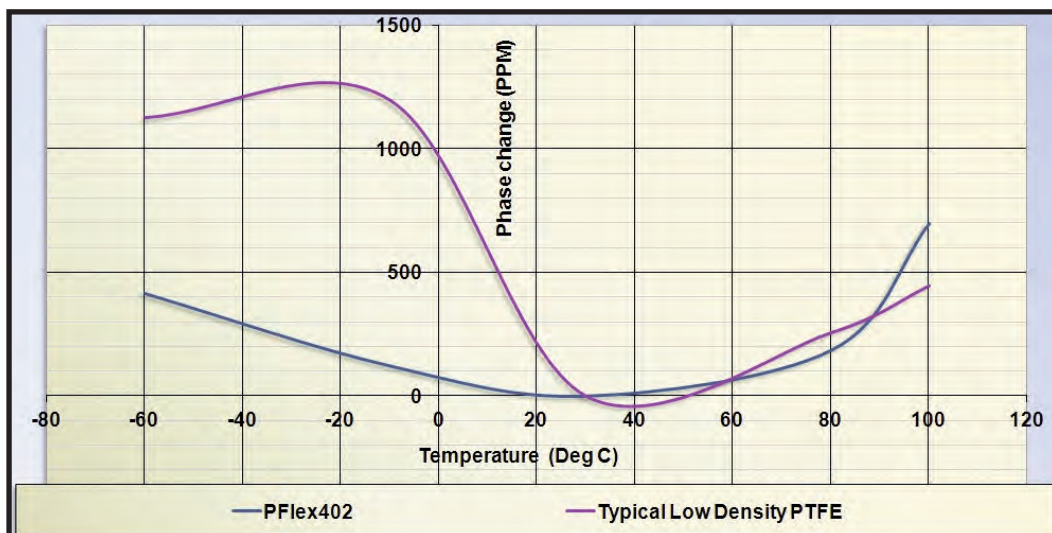
- All Phase Sensitive Systems
- Phase Optimized Flexible Alternative to Semi-Rigid
- All System Platforms
(Ground, Sea, Airborne, Space)



PhaseTrack PFlex cable assemblies are designed for applications demanding minimal phase change over temperature. PFlex cable assemblies are a flexible interconnect-style cable often used as a semi-rigid replacement. PFlex 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. PFlex cable uses the same shield construction as Times popular TFlex® cables.

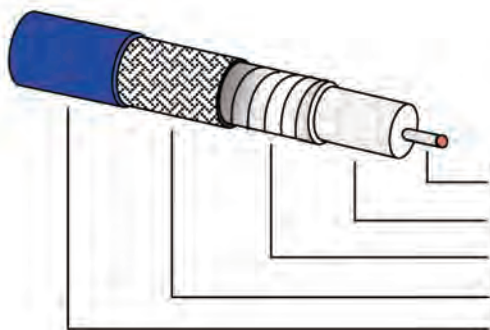
Features:

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



PhaseTrack® PFlex

PhaseTrack® PFlex Construction



Center Conductor	Silver Plated Copper*
Dielectric	TMS TF4™ Dielectric
Outer Conductor	Silver Plated Copper
Outer Shield	Silver Plated Copper Braid
Jacket	Blue FEP

Part Number	PF047	PF405	PF130	PF402
Dielectric Technology	TF4™	TF4™	TF4™	TF4™
Diameter (in)	0.064	0.094	0.130	0.160
Minimum Bend Radius	0.250	0.500	0.625	0.750
Mass (lbs/1000 feet)	4.5	11	18	28.0
Temperature Rating	-55C to + 125C			
Center Conductor	Silver Plated Copper Clad Steel		Silver Plated Copper	
Outer Conductor	Silver Plated Copper Strip			
Jacket	Blue FEP			
Characteristic Impedance	50 Ohms			
Velocity of Propagation	82.5%	82.5%	82.5%	82.5%
Cutoff Frequency (GHz)	142.3	79.9	52.3	38.7
Delay (nS/foot)	1.23	1.23	1.23	1.23
Capacitance (pF/foot)	24.4	24.4	24.4	24.4
Shielding	-90 dB Minimum			
Loss @ 6 GHz (db/100 foot)	102.74	59.34	37.96	30.92
Loss @ 18 GHz (db/100 foot)	185.95	110.16	71.61	59.36
K1	1.24487	0.69102	0.43043	0.3399
K2	0.0010516	0.0009697	0.00077	0.0007645

*PF047 and PF405 use silver plated, copper clad steel as a center conductor.