

# PhaseTrack®- PFlex

AS 9100 Registered

## Phase Stable Cable Assemblies

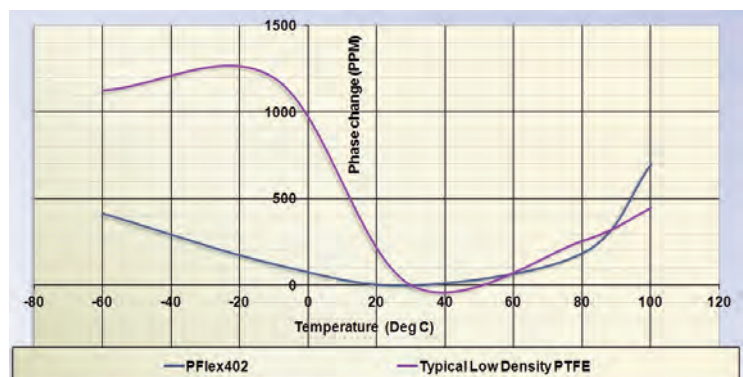
- All Phase Sensitive Systems
- Phase Optimized Flexible Alternative to Semi-Rigid
- All System Platforms  
(Ground, Sea, Airborn, Space)



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

Part Number	PF130	PF402
Dielectric Technology	TF4	TF4
Diameter (in)	0.130	0.160
Minimum Bend Radius	0.625	0.750
Mass (lbs/1000 feet)	21.0	27.5
Temperature Rating	-55C to + 125C	
Center Conductor	Oxygen Free Silver Plated Copper	
Outer Conductor	Silver Plated Copper Strip	
Jacket	Blue FEP	
Characteristic Impedance	50 Ohms	
Velocity of Propagation	83%	83%
Cutoff Frequency (GHz)	52.3	38.4
Delay (nS/foot)	1.23	1.23
Capacitance (pF/foot)	24.5	24.4
Shielding	-90 dB/feet	
Loss @ 6 GHz (db/100 feet)	38	30.9
Loss @ 18 GHz (db/100 feet)	71.7	59.4
K1	0.430980	0.3399
K2	0.00077	0.0007645

PhaseTrack®-PFlex 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](mailto:PhaseCritical@timesmicro.com)

***For Performance, Quality and Reliability you can count on, count on Times Microwave Systems - The Leader***



World Headquarters: 358 Hall Avenue, Wallingford, CT 06492 • Tel: 203-949-8400, 1-800-867-2629 Fax: 203-949-8423  
 International Sales: 4 School Brae, Dysart, Kirkcaldy, Fife, Scotland KY1 2XB UK • Tel: +44(0)1592655428  
 China Sales: No. 318 Yuan Shan Road, Shanghai, China 201108 Tel: 86-21-51761234 Fax: 86-21-64424098  
[www.timesmicrowave.com](http://www.timesmicrowave.com)