

PhaseTrack®- PFlex

AS 9100 Registered

Phase Stable Cable Assemblies

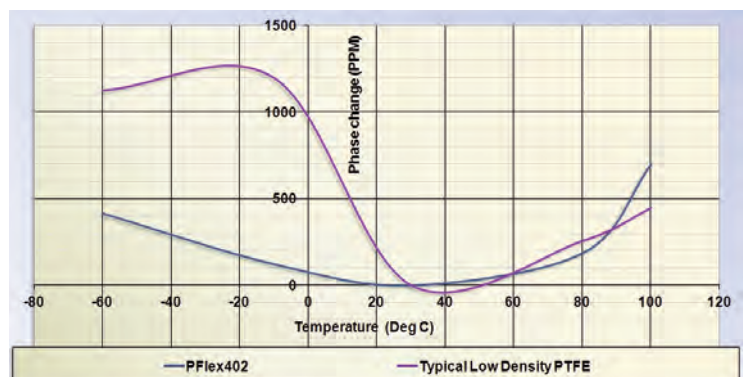
- All Phase Sensitive Systems
- Phase Optimized Flexible Alternative to Semi-Rigid
- All System Platforms
(Ground, Sea, Airborn, Space)



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

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



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