

PhaseTrack® LS

AS 9100 Registered

Phase Stable Cable Assemblies

- Low-Smoke Phase-Optimized Flexible Cable
- All Phase Sensitive Systems
- Low Smoke Formulation
- All System Platforms
(Ground, Sea, Airborn and space)



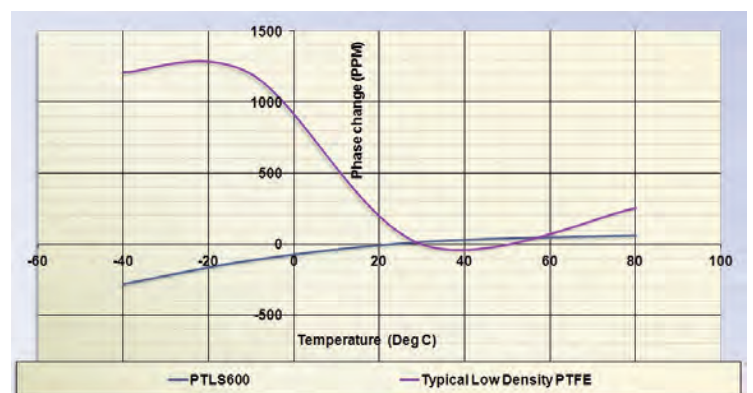
PhaseTrack® LS cable assemblies are designed for applications demanding minimal phase change over temperature.

PhaseTrack® LS cable assemblies are a phase performance optimized version of the Times-exclusive low-loss flexible Low Smoke cables.

PhaseTrack® LS cables use proprietary TF5™ 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
- TF5 Dielectric Technology



PhaseTrack[®] LS

Part Number	PTLS400	PTLS600
Dielectric Technology	Polymer Foam	Polymer Foam
Diameter (in)	0.400	0.600
Minimum Bend Radius	4.000	6.000
Mass (lbs/1000 feet)	100.0	160.0
Temperature Rating	-40C to +85C	
Center Conductor	Copper Clad Aluminum	
Outer Conductor	Silver plated Copper Strip Braid	
Jacket	Flame Retardant Polyethylene	
Characteristic Impedance	50 Ohms	
Velocity of Propagation	84.0%	84.0%
Cutoff Frequency (GHz)	16.2	10
Delay (nS/foot)	1.21	1.21
Capacitance (pF/foot)	23.4	23.4
Shielding (dB/100 feet)	-90 dBc/ft	
Loss @ 6 GHz (db/100 feet)	13.2	17.6
Loss @ 10 GHz (db/100 feet)	8.7	11.8
K1	0.150138	0.092086
K2	0.000262	0.000256

PhaseTrack[®] LS 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



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