

# PhaseTrack® LS

## *Phase Stable Cable Assemblies*

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



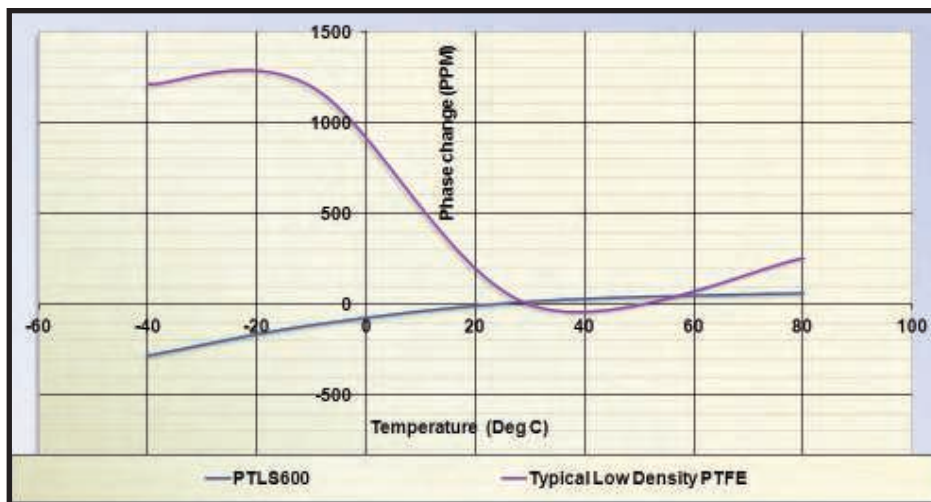
PhaseTrack® LS cable assemblies are designed for applications demanding minimal phase change over temperature.

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.

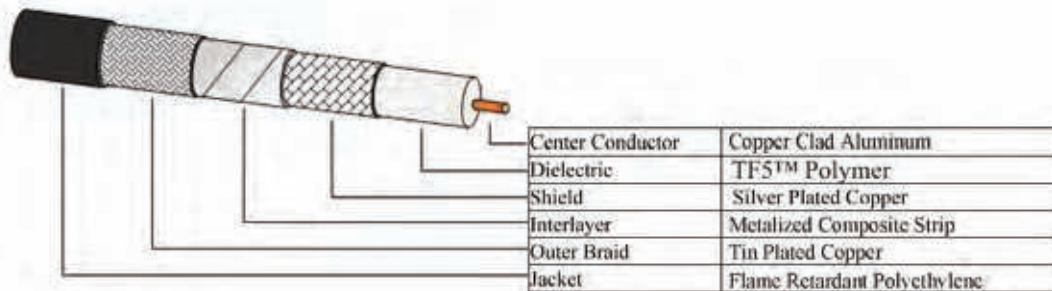
### Features:

- Superior Stability (vs LD PTFE)
- PTFE “Knee” is Nonexistent
- TF5 Dielectric Technology



# PhaseTrack<sup>®</sup> LS

## PhaseTrack<sup>®</sup>- LS Construction



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	-90 dB Minimum	
Loss @ 6 GHz (db/100 feet)	13.2	8.7
Loss @ 10 GHz (db/100 feet)	17.6	11.3
K1	0.150138	0.092086
K2	0.000262	0.000256