

962-017-402
50 Ohm Low Phase Change Coax Cable

- 40 GHz
- ETFE Jacket
- Tape+Braid Shields
- .157" Diameter
- LPCF Dielectric
- .041" SPC Conductor



50 ohm. Phase stable. Double shield. 962-017-402 coax cable has LPCF dielectric to minimize phase shift caused by temperature change. Less than 250 ppm/°C phase change from -40 to +60 °C. Radiation-resistant space-grade ETFE jacket. Two metallic layers for greater than 90 dB of shielding effectiveness: SPC (silver-plated copper) tape inner shield, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- Low phase change vs. temperature
- -55 to +165 °C
- ETFE jacket
- LPCF dielectric
- 90 dB shield effectiveness
- Two shield layers
- Low attenuation

LPCF DIELECTRIC

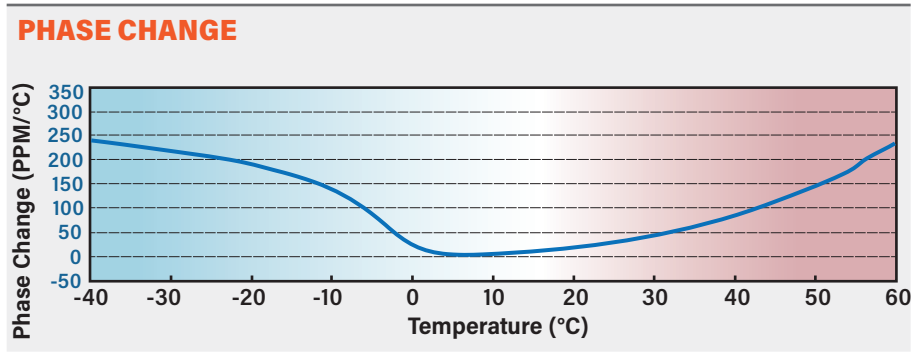
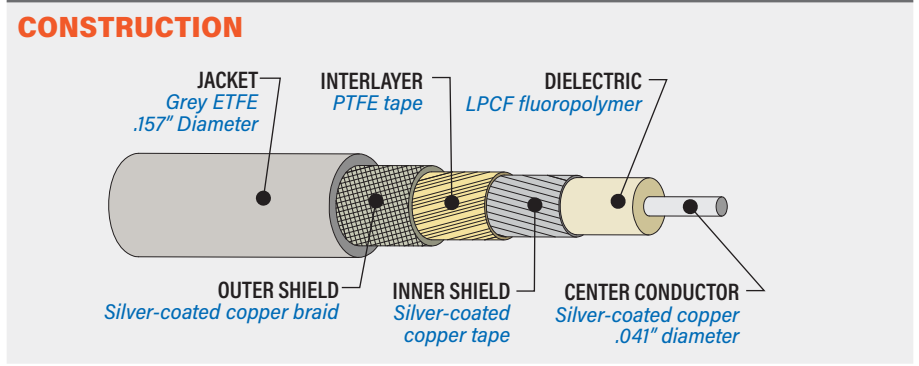
Temperature changes can cause phase shift in coax cables with PTFE dielectric cores. **Low Phase Change Fluoropolymer (LPCF)** cables replace the PTFE core with a fluoropolymer material yielding improved phase stability over a wide temperature range.

OPERATING TEMPERATURE

-55 to +165 °C

PART NUMBER

962-017-402 Order in one foot increments



DIMENSIONS

	in	mm
Center Conductor	.041	1.0
Dielectric	.109	2.8
Inner Foil Shield	.116	2.9
PTFE Interlayer	.125	3.2
Outer Braid Shield	.141	3.6
Jacket	.157	4.0
Min. Bend Radius	.945	24.0

ATTENUATION

	dB/ft
0.5 GHz	.072
1 GHz	.101
2 GHz	.147
4 GHz	.213
6 GHz	.265
8 GHz	.311
10 GHz	.351
12 GHz	.387
14 GHz	.424
16 GHz	.457
18 GHz	.488
20 GHz	.520
26.5 GHz	.610
30 GHz	.658
40 GHz	.780

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	82%
Capacitance (pF/ft)	24.8
Shielding Effectiveness (dB)	90
Delay (ns/ft)	1.24
Max. Operating Frequency (GHz)	40

COAX CABLE