

962-011-402

50 Ohm Low Phase Change Coax Cable

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

COAX CABLE



50 ohm. Phase stable. Double shield.
 962-011-402 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. Abrasion resistant, flexible FEP jacket. Two metallic layers for greater than 90 dB of shielding effectiveness: SPC (silver-plated copper) tape wrap inner shield, and round SPC braid outer shield. Solid SPC center conductor.

- 50 ohm
- Low phase change vs. temperature
- 40 GHz
- -55 to +165 °C
- FEP jacket
- LPCF dielectric
- 90 dB shield effectiveness
- Foil/braid 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.

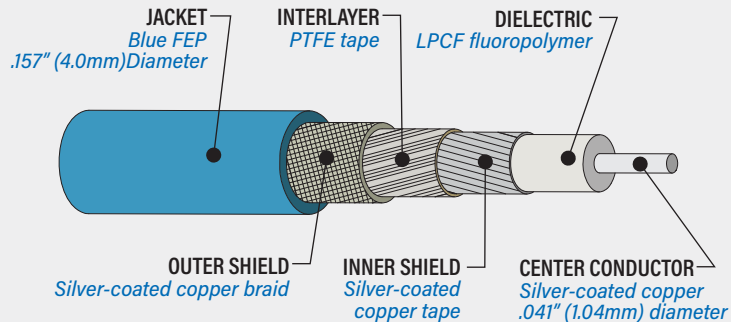
OPERATING TEMPERATURE

-55 to +165 °C

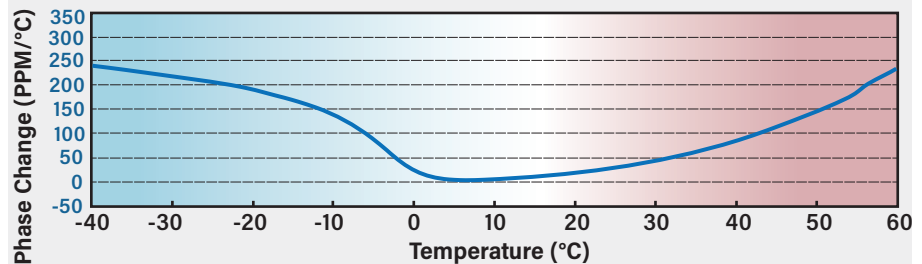
PART NUMBER

962-011-402 Order in one foot increments

CONSTRUCTION



PHASE CHANGE



DIMENSIONS

	in	mm
Center Conductor	.041	1.04
Dielectric	.108	2.7
Inner Shield (SPC tape)	.116	2.9
PTFE Interlayer	.118	3.0
Outer Shield (Braid)	.138	3.5
Overall Diameter	.157	4.0
Min. Bend Radius	1.574	40.0

ATTENUATION

	Attenuation (dB/ft)
0.3 GHz	.055
1 GHz	.103
2 GHz	.147
4 GHz	.213
6 GHz	.265
8 GHz	.310
10 GHz	.351
12 GHz	.389
14 GHz	.424
16 GHz	.457
18 GHz	.489
26.5 GHz	.612
40 GHz	.780

ELECTRICAL SPECIFICATIONS

Impedance (ohms)	50
Velocity of Propagation	82%
Shielding Effectiveness (dB)	90
Max. Operating Frequency (GHz)	40