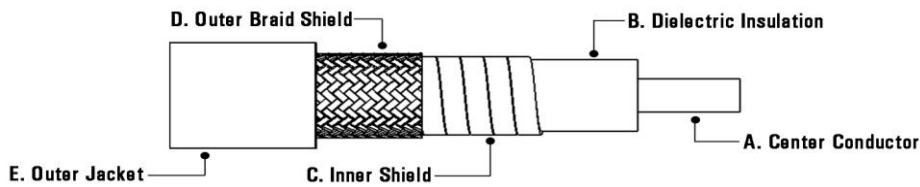


TEMP-FLEXa **molex** company

Low Loss Microwave Coax

Part Number: 086SC-2401



Construction / Mechanical Specification

Section	Material	Dimensions	
A. Center Conductor	Silver Plated Copper	0.0201 in	0.51 mm
B. Dielectric Insulation	FEP (High Purity)	0.0650 in	1.65 mm
C/D. Inner / Outer Shield	Silver Plated Copper	0.0850 in	2.16 mm
E. Outer Jacket	FEP	0.1010 in	2.57 mm

Minimum Static Bend Radius (<math><0.5\Omega</math>)	0.30 in	7.6 mm
Minimum Dynamic Bend Radius	0.60 in	15.2 mm
Cable Weight	13 lbs/kft	19.36 kg/km
Operating Temperature	-85°F - 257°F	-65°C - 125°C
Material Flammability Rating	V-0 (UL 1354)	

Electrical Specification

Characteristic Impedance	$50 \Omega \pm 1 \Omega$	
Propagation Delay	1.450 ± 0.01 ns/ft	4.76 ns/m
Velocity of Propagation	70%	
Capacitance	29 pF/ft	95 pF/m
Cut off Frequency	62 GHz	
Shielding Effectiveness	>100 dB	

Attenuation vs. Frequency

Frequency (GHz)	(dB / ft)	(dB / m)
1	0.20	0.66
4	0.43	1.41
8	0.63	2.07
18	1.01	3.31
26	1.25	4.10
40	1.64	5.38
50	1.90	6.23

