

# High Performance Flexible Cable

## Cable Type 37B

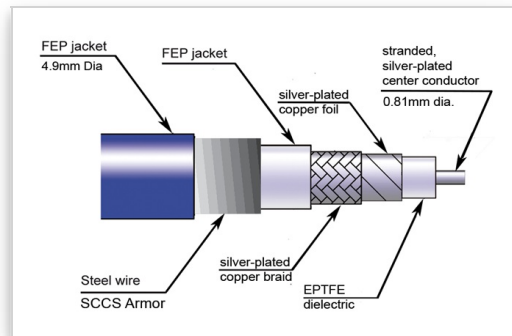
**Ultimate Performance**  
DC - 48.00 GHz

Specifications		
Cable Code	Standard	37B
	Armored	Armored
Frequency Range	DC - 48.00 GHz	
Outer Diameter [mm]	4.85	
Impedance [Ohms] (@ sea level and +25°C)	50 ± 2	
Velocity of Propagation [% , ± 2%]	83.00	
Capacitance [pF/m]	79.00	
Dielectric Strength (60 Hz) [KV rms]	-	
Max. Operating Voltage (60 Hz, @ sea level) [KV rms]	-	
Nominal Insertion Loss vs. Frequency [dB/m]	4.00 GHz	0.90
	8.00 GHz	1.30
	12.00 GHz	1.63
	18.00 GHz	2.05
	26.50 GHz	2.60
	40.00 GHz	3.30
	48.00 GHz	3.65
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	4.00 GHz	200.00
	8.00 GHz	135.00
	12.00 GHz	107.00
	18.00 GHz	90.00
	26.50 GHz	69.00
	40.00 GHz	54.00
	48.00 GHz	46.00
RF Leakage @ 9.5 GHz	>100 @ 18.0 GHz dbC	
Operating Temperature Range	-65 to +165	
Center Conductor	Material	Stranded Copper, silver-plated
	Diameter [mm]	0.81
Dielectric	Material	low-density PTFE
	Diameter [mm]	2.31
	Dielectric Constant	1.5
Outer Conductor Construction	silver-plated copper foil, silver-plated copper braid	
Outer Jacket	FEP	
Weight [grams/m]	68.00	
Connector Retention Force [N]	130.00	
Minimum Bend Radius, Inside, Static [mm]	10.00	
Minimum Bend Radius, Inside, Dynamic [mm]	80.00	

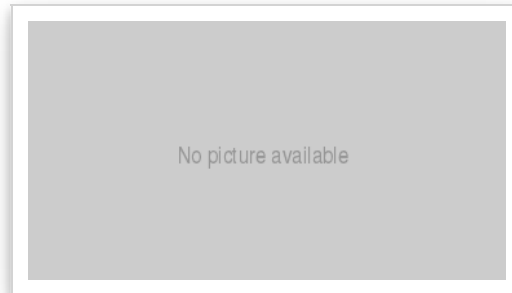
### Characteristics:

- Ultimate Performance to 48.0 GHz
- Small diameter and excellent flexibility
- Meeting the very highest quality standard as needed for crucial applications in harsh environment
- Procurement for completely terminated assemblies, fully tested. The test documentation for VSWR and Insertion Loss will be supplied with the cable assembly
- Available Connectors: 2.4 mm, 2.92 mm, 3.5 mm, 7 mm, N, SMA, SBX, SBY, BQ-, CQ-, IQ-, RQ-, SQ-, TQ-Series and TNC

### Cross Section View:



### Attenuation & Power Graph:



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Specifications are subject to change without notice.