

High Performance Flexible Cable

Cable Type 39S

Ultimate Performance DC - 41.00 GHz

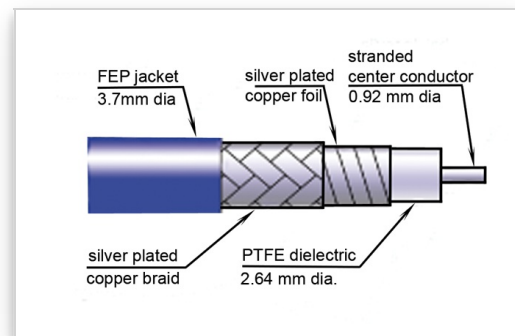
Specifications

Cable Code	Standard	39S
	Armored	39Sx
Frequency Range	DC - 41.00 GHz	
Outer Diameter [mm]	3.65	
Impedance [Ohms] (@ sea level and +25°C)	50 ± 2	
Velocity of Propagation [% , ± 2%]	83.00	
Capacitance [pF/m]	85.00	
Dielectric Strength (60 Hz) [KV rms]	-	
Max. Operating Voltage (60 Hz, @ sea level) [KV rms]	-	
Nominal Insertion Loss vs. Frequency [dB/m]	2.00 GHz	0.58
	4.00 GHz	0.82
	6.00 GHz	1.02
	8.00 GHz	1.20
	12.00 GHz	1.45
	18.00 GHz	1.80
	26.50 GHz	2.25
	40.00 GHz	2.80
Nominal CW Power vs. Frequency (@ sea level and +20°C) [Watts]	2.00 GHz	330.00
	4.00 GHz	230.00
	6.00 GHz	190.00
	8.00 GHz	160.00
	12.00 GHz	134.00
	18.00 GHz	107.00
	26.50 GHz	85.00
	40.00 GHz	67.00
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]	0.92
Dielectric	Material	Low-density EPTFE
	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]	32.00	
Connector Retention Force [N]	130.00	
Minimum Bend Radius, Inside, Static [mm]	15.00	
Minimum Bend Radius, Inside, Dynamic [mm]	75.00	

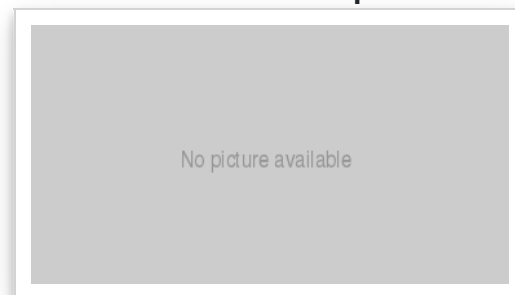
Characteristics:

- Ultimate Performance to 41.0 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.