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Phase³ Ultra Low Loss Cables



Series C Absolute Lowest Loss through 67 GHz

MegaPhase's industry leading coaxial cables feature the absolute lowest loss available through 67 GHz. These cables are optimized for consistent and repeatable performance. **Series C** cable products are available with standard RF/Microwave connectors including SMA, Type N, 3.5mm, 2.92mm and 1.85mm.

Frequency (GHz)	Band	VSWR (x.xx:1)	Conn. Loss (dB/ea)	Typical Attenuation dB/ft (dB/m)				
				C08	C12	C19	C29	C63
1.0	UHF	1.05	0.02	0.22 (0.72)	0.10 (0.33)	0.08 (0.25)	0.05 (0.15)	0.02 (0.07)
4.0	S	1.15	0.04	0.43 (1.44)	0.20 (0.66)	0.15 (0.49)	0.09 (0.30)	0.04 (0.14)
8.0	C	1.20	0.07	0.62 (2.03)	0.29 (0.94)	0.21 (0.70)	0.13 (0.43)	0.06 (0.20)
18.0	Ku	1.27	0.11	0.93 (3.06)	0.43 (1.41)	0.32 (1.06)	0.20 (0.65)	
26.5	K	1.35	0.15	1.13 (3.72)	0.52 (1.71)	0.40 (1.29)		
40.0	Ka	1.45	0.25	1.39 (4.57)	0.64 (2.10)			
67.0	V	1.59	0.45	1.80 (5.89)				

Series C Electrical Data					
Frequency, max. (GHz)	67.0	40.0	26.5	18.0	8.0
Impedance, nominal (Ω)	50	50	50	50	50
Propagation Velocity, nominal (%)	78	84	84	85	80
Capacitance, nominal (pF/ft (m))	24.4 (80)	24.4 (80)	24.4 (80)	24.4 (80)	24.4 (80)
Shielding Effectiveness, min. (dB)	-100	-100	-100	-100	-100

Series C Mechanical Data					
Finished Diameter, nominal, in(mm) <i>FEP</i>	0.09 (2.3)	0.14 (3.6)	0.21 (5.2)	0.31 (7.9)	0.64 (16.3)
Bend Radius, min., in(mm)	1.6 (40)	2.8 (70)	3.5 (90)	4.7 (120)	9.8 (250)
Temperature Range, min., °C	-65 - +165	-65 - +165	-65 - +165	-65 - +165	-65 - +165
Weight, nominal, lbs/ft (kg/m)	0.012 (0.018)	0.019 (0.028)	0.042 (0.062)	0.090 (0.182)	0.285 (0.425)

Series C Construction	
Inner Conductor	Solid Ag-plated Cu
Dielectric	PTFE Tape
Outer Conductor	Ag-plated Cu Braid / Ag-plated Cu Tape
Outer Jacket	FEP (Standard)

Phase Matching, Alternate Jacket, Armoring and other Features Available on Request!

