

# FMC-W Series

DC - 110 GHz Phase Stable Cable

## 1 mm Phase Stable Cable Assembly Datasheet

1mm Phase Stable Cable by Focus Microwaves is a state-of-the-art RF cable meticulously engineered for superior performance and reliability in the most demanding applications. Constructed with high-quality materials and manufactured to precise standards, this cable ensures exceptional phase and amplitude stability, minimal insertion loss, and robust environmental resistance. Covering a wide frequency range from DC to 110GHz, it is ideal for applications requiring consistent and stable electrical performance under dynamic conditions. This datasheet details the key specifications and features of the Phase Stable Cable 1mm, including comprehensive electrical, material, and mechanical properties. Whether for laboratory testing, field measurements, or critical system integrations, this cable is designed to meet and exceed your exacting requirements.



### Electrical Specifications

Model	Freq. Range (GHz)	Connector Type	Insertion Loss (dB)	Max. VSWR	Max. Amplitude/Phase Variation**
FMC-W Series*	DC - 110	1 mm	$\leq(17.4*L(M)+1.05)$ dB	$\leq 1.50(3\text{ IN} \leq L \leq 8\text{ IN})$ $\leq 1.45(8\text{ IN} < L \leq 40\text{ IN})$	$\pm 0.18$ dB / $\pm 15^\circ$

\* Standard Length: 8'; 48" (Customization available)

\*\*Stability performance data with 180° bending

### Material Specifications

Piece Parts	Material	Plating
Barrel	Aluminum	Blue anodizing
Body Coupling Nut	Stainless steel	Passivation
Contact Pin	Beryllium copper	Gold

### Mechanical Specifications

Parameter	Value
Durability	$\geq 500$ Cycles
Min. bending radius static	0.8"
Min. bending radius dynamic	1.6"

### Dimensions (inches)

