

FMC-18 Series

DC - 18 GHz Phase Stable Cable

3.5 mm Phase Stable Cable Datasheet

3.5mm 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 18GHz, 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 3.5mm, 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-18 Series*	DC - 18	3.5 mm	$\leq(2.16 \cdot L(M)+0.45)$	$\leq 1.30(8 \text{ IN} \leq L \leq 14 \text{ IN})$ $\leq 1.25(14 \text{ IN} < L \leq 200 \text{ IN})$	$\pm 0.05\text{dB} / \pm 4^\circ$

* Standard Length: 8"; 10"; 36"; 48"; 60" (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	≥ 500 Cycles
Min. bending radius static	1.3"
Min. bending radius dynamic	2.5"

Dimensions (inches)

