

# FMC-40 Series

## 2.92 mm Phase Stable Cable Datasheet

2.92mm Phase Stable Cable by Focus Microwaves is a state-of-theart 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 40GHz, 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 2.92mm, 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-40 Series*	DC - 40	2.92 mm	≤(3.15*L(M)+0.65)dB	≤1.30(8 IN≤L≤14 IN) ≤1.25(14 IN <l≤200 in)<="" td=""><td>±0.08dB / ±6°</td></l≤200>	±0.08dB / ±6°	

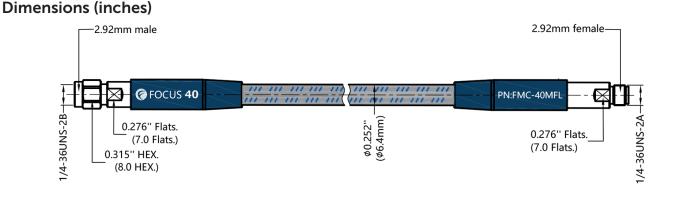
\* Satandard Length: 36\*; 60\* (Customization available)
\*\*Stability performance data with 180° bending

## **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″	



Focus Microwaves Phase Stable Cable	SN:24X40XX-XXX		
2.0835" REF. (52.92 REF.)	2.1299'' REF (54.10 REF.)	·	RoHS Compliant

FMC-40 Series-V01

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Automatic Measurement Systems

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