

# FMC-V Series

DC - 67 GHz Phase Stable Cable

## 1.85 mm Phase Stable Cable Datasheet

1.85mm 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 67GHz, 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 1.85mm, 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-V Series* | DC - 67           | 1.85 mm        | $\leq(6.34*L(M)+0.82)$ dB | $\leq 1.40(8\text{ IN} \leq L \leq 14\text{ IN})$<br>$\leq 1.35(14\text{ IN} < L \leq 200\text{ IN})$ | $\pm 0.12$ dB / $\pm 10^\circ$   |

\* 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  | 1"                |
| Min. bending radius dynamic | 2"                |

### Dimensions (inches)

