

Semiflex RF Cables & Assemblies

FPD-047

Hand Formable

Features:

- Hand formable
- Quick and easy assembly

Applications:

- Instrumentation
- Laboratory test
- Interconnection

Electrical

Frequency	DC-20GHz
Impedance	50±2Ω
Velocity of Propagation	70%
Voltage Withstand	900V DC

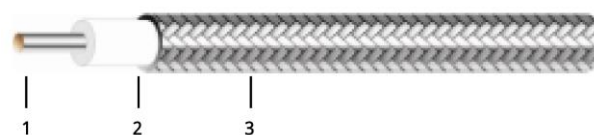
Mechanical

Bend Radius (installation)	4mm
Bend Radius (repeated)	20mm

Environmental

Temperature	-55 ~ +200°C
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Construction



No	Name	Size (mm)	Material
1	Inner Conductor	0.31	SCCS Silver-plated copper clad steel
2	Dielectric	0.94	PTFE
3	Inner Shield	1.19	Tin-plated copper braid

Attenuation & Power Handling

Frequency (GHz)	0.5	1	5	10	20
Attenuation (dB/100m, typ.)	82	118	269	420	578

Calculate Cable Attenuation: $\text{Attenuation (dB/100m)} = 3.512916 * \sqrt{F \text{ (MHz)}} + 0.006852 * F \text{ (MHz)}$

Calculate Connector Attenuation: $\text{Attenuation (dB)} = 0.03 * \sqrt{F \text{ (GHz)}}$