Phase and Amplitude Stable RF Cable
DC – 40GHz

Product Description

RFC6767AB7NL1829 is a phase and amplitude stable RF cable with a frequency range of DC to 40GHz.

The maximum insertion loss is 5.06dB with a VSWR of 1.25:1.

The connectors are 2.92mm-Male and 2.92mm-Male.

Features

- Up to 40GHz
- Excellent phase and amplitude stability
- Excellent VSWR , low insertion loss
- High performance to cost ratio

Typical Applications

- RF , microwave test systems
- RF , microwave integrating system and sub-assemblies
- Use in test lab environment

Electrical Specifications (T_A=+25ºC)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		DC – 40		GHz
Insertion Loss			5.06	dB
VSWR			1.25	:1
Velocity Of Propagation(Vp)		82		%
Time delay		4.06		ns/m
Shielding Effectiveness(18GHz)	90			dB
Temperature Phase Stability(-55~85ºC)			750	ppm
Length		72"/1829		inch/mm
Weight		1.16		ounces/m
Impedance		50		Ω
Connector1		2.92mm-Male(Straight)		
Connector2		2.92mm-Male(Straight)		

Mechanical/Environmental Performance

Parameter	Description
Outer Dia.	0.142"/3.6(inch/mm)
Minimum Bend Radius(Dynamics)	1.42"/36(inch/mm)
Minimum Bend Radius(Static)	0.71"/18(inch/mm)
Operational Temperature	-55ºC to +125ºC
Storage Temperature	-55ºC to +125ºC

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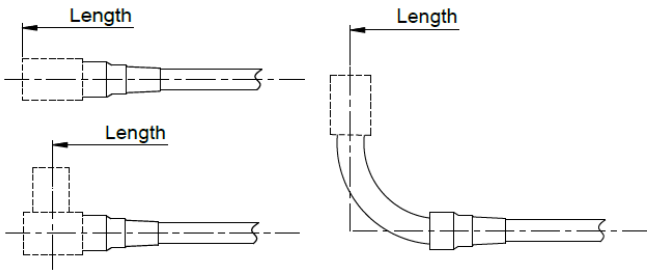
Outline Drawing and Cable Structure

Notes:
1. All dimensions are in millimeters [inches].



Length(mm)	Tolerance(mm)
<100	±3
100~200	±5
200~1000	±10
1000~2000	±13
2000~8000	±25
>8000	±50

PN#	Name	Material
1	Center Conductor (Solid)	Silver Plated Copper
2	Dielectric	Low Density PTFE
3	Inner Shield	Silver Plated Copper Tape
4	Outer Braid	Silver Plated Copper Wires
5	Outer Jacket	PFA , Gray

Connector 1 Material

Name	Material
Outer Conductor	Stainless Steel ,Passivated
Inner Conductor	Beryllium Copper,Gold Plated
Dielectric	PEI
Nut	Stainless Steel ,Passivated
Hex Size	0.315"/8(inch/mm)
Recommended Torque	9Nm

Connector 2 Material

Name	Material
Outer Conductor	Stainless Steel ,Passivated
Inner Conductor	Beryllium Copper,Gold Plated
Dielectric	PEI
Nut	Stainless Steel ,Passivated
Hex Size	0.315"/8(inch/mm)
Recommended Torque	9Nm

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFC6767AB7NL1829	Connector 1: 2.92mm-Male Connector 2: 2.92mm-Male	DC-40GHz Phase and Amplitude Stable RF Cable

Important Notice

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