

Low Loss Flexible RF Cable DC–50GHz



Product Description

RFC6868CBO650 is a low loss flexible RF cable with a frequency range of DC to 50GHz.

The maximum insertion loss is 2.9dB with a VSWR of 1.3:1.

The connectors are 2.4mm-Male and 2.4mm-Female.

Features

- Up to 50GHz
- 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=+25°C)

Parameter	Min.	Typ.	Max.	Units
Frequency Range		DC – 50		GHz
Insertion Loss			2.9	dB
VSWR			1.3	:1
Amplitude Stability			±0.1	dB
Phase Stability			±5.2	°
Length		650		mm
Impedance		50		Ω
Connector1		2.4mm-Male		
Connector2		2.4mm-Female		

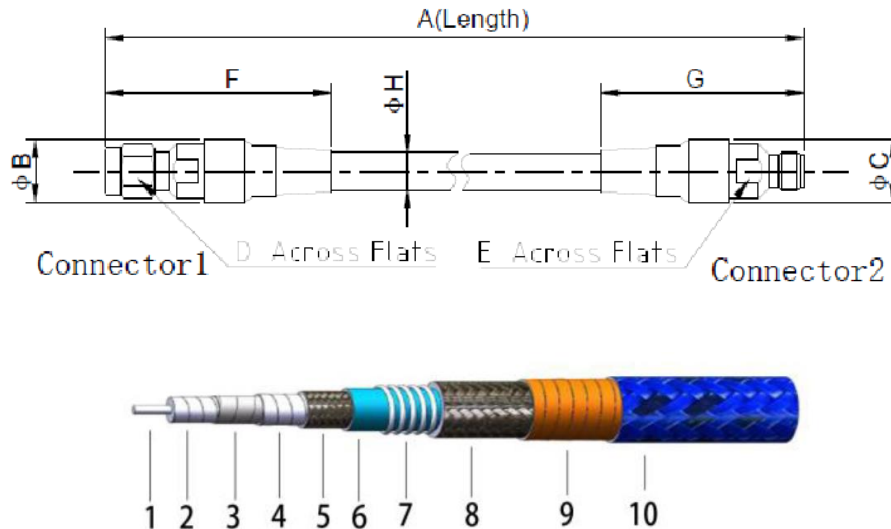
Mechanical/Environmental Performance

Parameter	Description
Outer Dia.	6.1mm
Minimum Bend Radius(Dynamics)	60mm
Minimum Bend Radius(Static)	30mm
Transmission Speed	76%
Mating Cycles	>2000
Operational Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C

Outline Drawing and Cable Structure

Notes:

- All dimensions are in millimeters [inches].



Connector 1 Material

Name	Material
Outer Conductor	Stainless Steel ,Passivated/Burnishing
Inner Conductor	Beryllium bronze,gold plating
Insulating medium	PEEK
Blind Nut	Stainless Steel ,Passivated/Burnishing

Connector 2 Material

Name	Material
Outer Conductor	Stainless Steel ,Passivated/Burnishing
Inner Conductor	Beryllium bronze,gold plating
Insulating medium	PEEK
Blind Nut	N/A

PN#	Name	Material
1	Center Conductor (Solid)	Silver Plated Copper
2	Dielectric	Low Density PTFE
3	Inner Shield	Silver Plated Copper Wires
4	Interlayer	PTFE, Wrapped
5	Inner Braid	Silver Plated Copper Wires
6	Inner Jacket	Blue,FEP
7	Spring Member	Stainless Steel Wire
8	Outer Braid	Silver Plated Copper Wires
9	Waterproof Layer	PI+PTFE
10	Outer Jacket	PTFE Wire, Blue-black

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
RFC6868CBO650	Connector 1: 2.4mm-Male Connector 2: 2.4mm-Female	DC-50GHz Low Loss Flexible RF Cable

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