

1.00mm Premium RF Cable

TCA100N030 is 30cm high-frequency coaxial cable designed for precision signal transmission up to 110 GHz. With double shield, it features low loss, excellent shielding, and stable phase performance. Ideal for RF testing and microwave modules, it offers durability, flexibility, and high reliability across harsh environments and demanding applications. Cable length can be customized.



Features

- Low Loss
- Low VSWR
- Bend-resistant
- Vibration-resistant

Applications

- RF Component Testing
- RF System Integration
- Laboratory Testing
- Chamber Testing

Mechanical Properties

Parameter	Value
Length	30 cm
Dynamic Bending Radius	19 mm
Static Bending Radius	9.5 mm
Weight	0.016 kg/m

TCA100N030

TIMWAVE

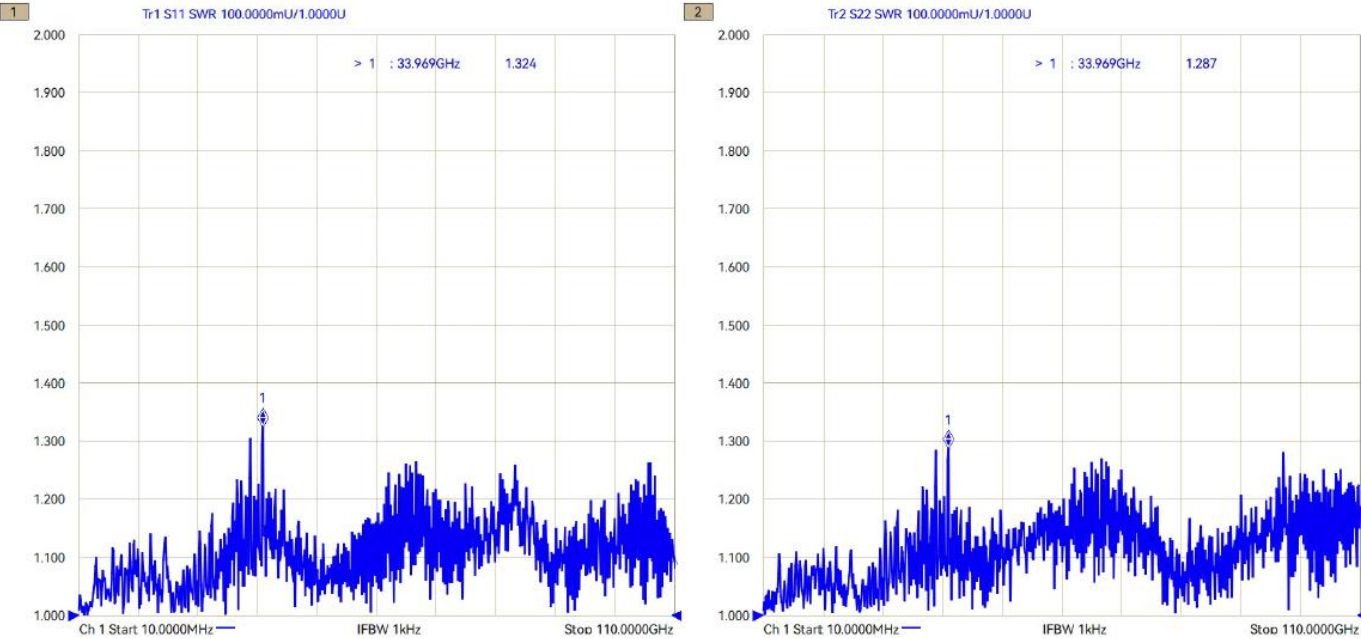
Specification

Parameter	Frequency (GHz)	Min.	Typ.	Max	Units
Insertion Loss	DC – 2	0.1	0.2	0.3	dB
	2 – 6	0.4	0.5	0.6	
	6 – 10	0.6	0.7	0.8	
	10 – 18	1.1	1.2	1.3	
	18 - 26.5	1.3	1.4	1.5	
	26.5 - 40	1.9	2.0	2.1	
	40 – 67	2.8	3.0	3.2	
	67 – 110	4.0	4.3	4.6	
Return Loss	DC – 2		23		dB
	2 – 6		25		
	6 – 10		24		
	10 – 18		17.5		
	18 – 26.5		21		
	26.5 – 40		22		
	40 – 67		16		
	67 – 110		17		
Flexing Durability		100,000 times			
Temperature		-55°C to +125°C			

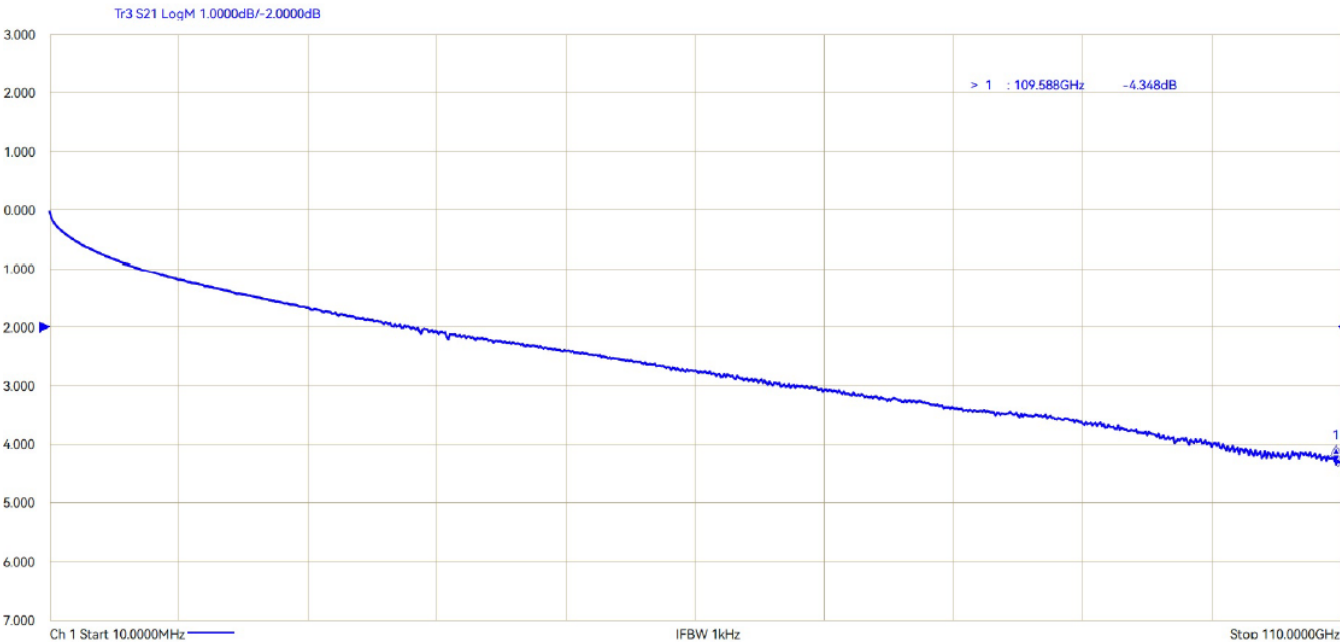
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Typical Measured Data

VSWR

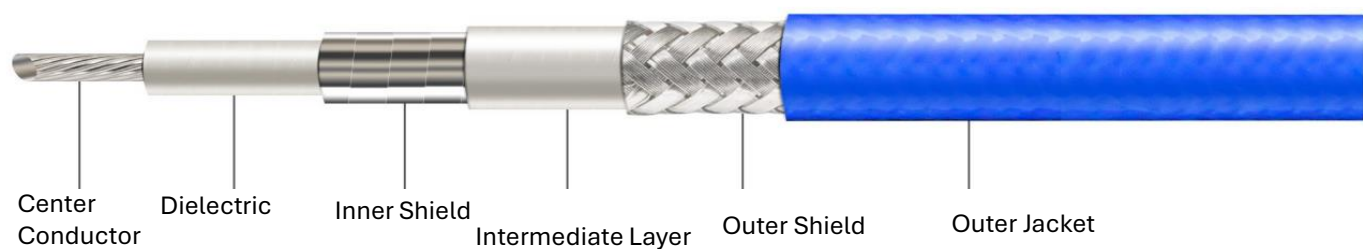


Insertion Loss



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Cable Construction & Materials



Structure Component	Size (mm)	Material
Center Conductor	0.30	Silver-plated copper-clad conductor
Dielectric	0.88	Low-density PTFE
Inner Shield	1.00	Silver-plated copper tape
Intermediate Layer	1.25	Low-density PTFE
Outer Shield	1.50	Silver-plated copper wire
Outer Jacket	1.85	Blue FEP

Information:

For sales and support, please contact: info@timave.com

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