

Coaxial Adapters

The coaxial adapter is an essential and important part in test & measurement. There are all kinds of different adapters everywhere, such as instrument, DUT, cable assembly and test accessory, which are used for the adaptation between different RF interfaces.

Lorentz offers a series of coaxial adapters with excellent VSWR, long-term stability and outstanding repeatability up to 110GHz.

	1.0 mm	1.85 mm	2.4 mm	2.92 mm	3.5 mm	SMA	N	7/16
1.0 mm	√	√						
1.85 mm	√	√	√	√				
2.4 mm		√	√	√	√		√	
2.92 mm		√	√	√	√		√	
3.5 mm			√	√	√	√	√	
SMA					√	√	√	√
N			√	√	√	√	√	√
7/16						√	√	√

Please don't hesitate to contact us if you need other adapters.

Adapter patterns

31		32		33	
	female-female		male-male		male-female
34		35		36	
	Bulkhead, female-female		Bulkhead, male-male		Bulkhead, male-female
37		38		39	
	Panel, female-female)		Panel, male-male		Panel, male-female
51		52		53	
	L-adapter, female-female		L-adapter, male-male		L-adapter, male-female

Typical product specifications

1.0mm - 1.0mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_10-10-50_3C1	1.0mm-female	1.0mm-female	DC - 110 GHz	≤ 1.35	SS + Be-Cu
32_10-10-50_3C1	1.0mm-male	1.0mm-male	DC - 110 GHz	≤ 1.35	SS + Be-Cu
33_10-10_50_3C1	1.0mm-male	1.0mm-female	DC - 110 GHz	≤ 1.35	SS + Be-Cu

1.0mm - 1.85mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_10-185-50_3C1	1.0mm-female	1.85mm-female	DC - 67 GHz	≤ 1.30	SS + Be-Cu
32_10-185-50_3C1	1.0mm-male	1.85mm-male	DC - 67 GHz	≤ 1.30	SS + Be-Cu
33_10-185-50_3C1	1.0mm-male	1.85mm-female	DC - 67 GHz	≤ 1.30	SS + Be-Cu
33_185-10-50_3C1	1.85mm-male	1.0mm-female	DC - 67 GHz	≤ 1.30	SS + Be-Cu

1.85mm - 1.85mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_185-185-50_3C1	1.85mm-female	1.85mm-female	DC - 67 GHz	≤ 1.25	SS + Be-Cu
32_185-185-50_3C1	1.85mm-male	1.85mm-male	DC - 67 GHz	≤ 1.25	SS + Be-Cu
33_185-185-50_3C1	1.85mm-male	1.85mm-female	DC - 67 GHz	≤ 1.25	SS + Be-Cu
34_185-185-50_3C1	1.85mm-female	1.85mm-female	DC - 67 GHz	≤ 1.30	SS + Be-Cu
37_185-185-50_3C1	1.85mm-female	1.85mm-female	DC - 67 GHz	≤ 1.25	SS + Be-Cu

1.85mm - 2.4mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_185-24-50_3C1	1.85mm-female	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu
32_185-24-50_3C1	1.85mm-male	2.4mm-male	DC - 50 GHz	≤ 1.20	SS + Be-Cu
33_185-24-50_3C1	1.85mm-male	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu
33_24-185-50_3C1	2.4mm-male	1.85mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu

1.85mm - 2.92mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_185-292-50_3C1	1.85mm-female	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
32_185-292-50_3C1	1.85mm-male	2.92mm-male	DC - 40 GHz	≤ 1.15	SS + Be-Cu
33_185-292-50_3C1	1.85mm-male	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
33_292-185-50_3C1	2.92mm-male	1.85mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu

Typical product specifications

2.4mm - 2.4mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_24-24-50_3C1	2.4mm-female	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu
32_24-24-50_3C1	2.4mm-male	2.4mm-male	DC - 50 GHz	≤ 1.20	SS + Be-Cu
33_24-24-50_3C1	2.4mm-male	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu
34_24-24-50_3C1	2.4mm-female	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu
37_24-24-50_3C1	2.4mm-female	2.4mm-female	DC - 50 GHz	≤ 1.20	SS + Be-Cu

2.4mm - 2.92mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_24-292-50_3C1	2.4mm-female	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
32_24-292-50_3C1	2.4mm-male	2.92mm-male	DC - 40 GHz	≤ 1.15	SS + Be-Cu
33_24-292-50_3C1	2.4mm-male	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
33_292-24-50_3C1	2.92mm-male	2.4mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu

2.4mm - 3.5mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_24-35-50_3C1	2.4mm-female	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
32_24-35-50_3C1	2.4mm-male	3.5mm-male	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
33_24-35-50_3C1	2.4mm-male	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
33_35-24-50_3C1	3.5mm-male	2.4mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu

2.4mm - N

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_24-N-50_3C1	2.4mm-female	N-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu
32_24-N-50_3C1	2.4mm-male	N-male	DC - 18 GHz	≤ 1.15	SS + Be-Cu
33_24-N-50_3C1	2.4mm-male	N-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu

2.92mm - 2.92mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_292-292-50_3C1	2.92mm-female	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
32_292-292-50_3C1	2.92mm-male	2.92mm-male	DC - 40 GHz	≤ 1.15	SS + Be-Cu
33_292-292-50_3C1	2.92mm-male	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
34_292-292-50_3C1	2.92mm-female	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu
37_292-292-50_3C1	2.92mm-female	2.92mm-female	DC - 40 GHz	≤ 1.15	SS + Be-Cu

Typical product specifications

2.92mm - 2.92mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
52_292-292-50_3C1	2.92mm-male	2.92mm-male	DC - 40 GHz	≤ 1.25	SS + Be-Cu
53_292-292-50_3C1	2.92mm-male	2.92mm-female	DC - 40 GHz	≤ 1.25	SS + Be-Cu

2.92mm - 3.5mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_292-35-50_3C1	2.92mm-female	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
32_292-35-50_3C1	2.92mm-male	3.5mm-male	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
33_292-35-50_3C1	2.92mm-male	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
33_35-292-50_3C1	3.5mm-male	2.92mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu

2.92mm - N

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_292-N-50_3C1	2.92mm-female	N-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu
32_292-N-50_3C1	2.92mm-male	N-male	DC - 18 GHz	≤ 1.15	SS + Be-Cu
33_292-N-50_3C1	2.92mm-male	N-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu
33_N-292-50_3C1	N-male	2.92mm-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu

3.5mm - 3.5mm

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_35-35-50_3C1	3.5mm-female	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
32_35-35-50_3C1	3.5mm-male	3.5mm-male	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
33_35-35-50_3C1	3.5mm-male	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
34_35-35-50_3C1	3.5mm-female	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu
37_35-35-50_3C1	3.5mm-female	3.5mm-female	DC - 26.5 GHz	≤ 1.15	SS + Be-Cu

N - SMA

Type	Interface 1	Interface 2	Frequency	VSWR	Material
31_N-SMA-50_3C1	N-female	SMA-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu
32_N-SMA-50_3C1	N-male	SMA-male	DC - 18 GHz	≤ 1.15	SS + Be-Cu
33_N-SMA-50_3C1	N-male	SMA-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu
33_SMA-N-50_3C1	SMA-male	N-female	DC - 18 GHz	≤ 1.15	SS + Be-Cu

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