

RF Jumpers 50 Ω, Low-Loss Cable Assemblies



VERSATILE HIGH-PERFORMANCE COAX CABLE ASSEMBLIES

Carlisle Interconnect Technologies (CarlisleIT) offers RF cable jumpers in multiple configurations to cater to most applications. We currently supply 1.85 mm, 2.40 mm, 2.92 mm, and 3.50 mm connector types on 0.079" coax, but if you are looking for a length or configuration not found in the options below, please contact us to enquire about custom orders. We aim to provide an end-to-end solution that encompasses Precision RF Connectors, RF Jumpers, and Adapters.

We offer RF Coax Jumpers in:

- » Standard Fluorinated Ethylene Propylene (FEP) jacket
- » Stainless Steel Armor
- » Clear PVC Armor

We also offer the option of short, medium, or long heat-shrink for various applications that may have different strain relief requirements.

SPECIFICATIONS & PERFORMANCE

Connector 1	Cable	Connector 2	Freq. Range	VSWR (Max)
1.85 mm Male or Female	0.079" Coax	1.85 mm Male or Female	DC - 65 GHz	1.40:1 @ 65 GHz
1.85 mm Female		2.92 mm Male	DC - 40 GHz	1.35:1 @ 40 GHz
2.40 mm Male or Female		2.40 mm Male or Female	DC - 50 GHz	1.40:1 @ 50 GHz
2.40 mm Female		3.50 mm Female	DC - 26.5 GHz	1.30:1 @ 26.5 GHz
2.92 mm Male or Female		2.92 mm Male or Female	DC - 40 GHz	1.35:1 @ 40 GHz
3.50 mm Male or Female		3.50 mm Male or Female	DC - 26.5 GHz	1.30:1 @ 26.5 GHz

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ORDERING INFORMATION

Standard Part Number Guide for RF Jumper Cables

Fill in the part number to the right.

Cable Type

7 0.079" Coax

Strain Relief

S	Short	A	SST Armor
M	Medium	P	PVC Armor
L	Long		

Connector 1 Type

4	2.40 mm
5	3.5 mm
8	1.85 mm
9	2.92 mm
ST	SecureThread SSMP (SMPM)

Connector 1 Gender

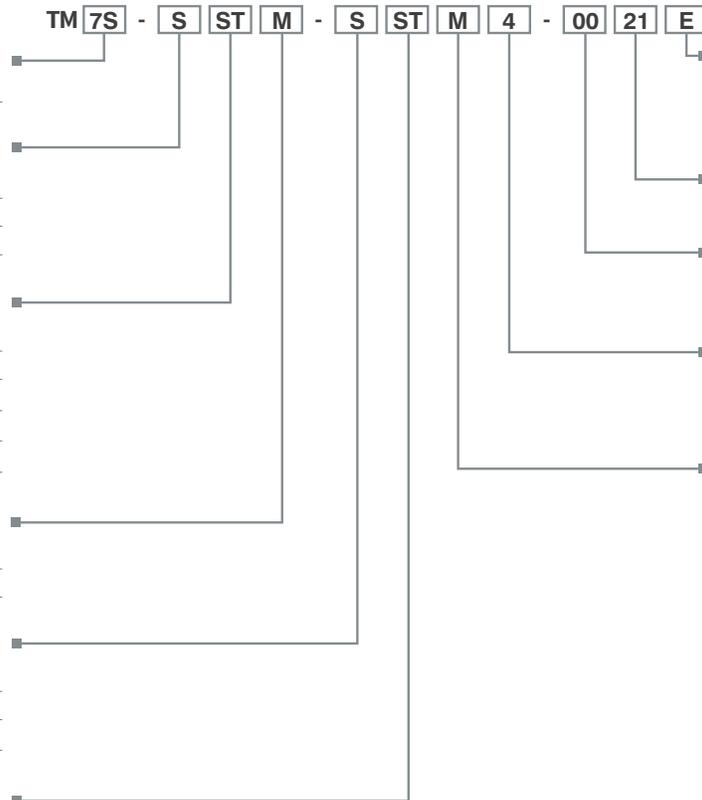
M	Male
F	Female

Connector 1 Orientation

S	Straight (No Mounting)
2	2 Hole Flange
4	4 Hole Flange

Connector 2 Type

4	2.40 mm
5	3.5 mm
8	1.85 mm
9	2.92 mm
ST	SecureThread SSMP (SMPM)



Phase Matching (Pairs)

Null	+/- 2ps
D:	+/- 1ps
E:	+/- 0.5ps

Length in cm

999 2 or 3 digit cm

Standard/Custom Connectors

00	Standard
XX	Custom

Connector 2 Orientation

S	Straight (No Mounting)
2	2 Hole Flange
4	4 Hole Flange

Connector 2 Gender

M	Male
F	Female

RF Jumpers

WHY CHOOSE RF COAX JUMPERS FROM CARLISLEIT?

- » Versatile low-loss cables offering outstanding performance in almost any environment
- » RF cables supporting frequencies up to 70 GHz
- » Lower loss than competition and precise phase matching
- » Light weight; less than 5 g/ft
- » Minimum static bend radius of 0.130"
- » High flex life of 3,000 cycles
- » Wide operating temperature range of -65 °C to 165 °C

Product Feature	Customer Benefit
Industry leader in RF cable manufacturing	<ul style="list-style-type: none"> » Low risk in supply chain » High-quality products
Wide range of technology	<ul style="list-style-type: none"> » Flexibility » One-stop-shop for all RF connectivity needs
Standard & custom cable solutions	Address unique needs in different applications

Low insertion loss and VSWR of CIT's coax jumpers indicate their high quality and performance. VSWR and insertion loss performance of 24" of 0.079" coax cable assemblies, with 2.4 mm RF connectors across the frequency range of DC to 50 GHz, is shown for reference in Figure 1. Low VSWR of <1.2 indicates a uniform impedance profile across the length of the cable assembly with minimal unwanted standing waves and reflections. Keeping the insertion loss less than -3 dB across the 50 GHz frequency spectrum ensures that the signal loss in the cable is very small.

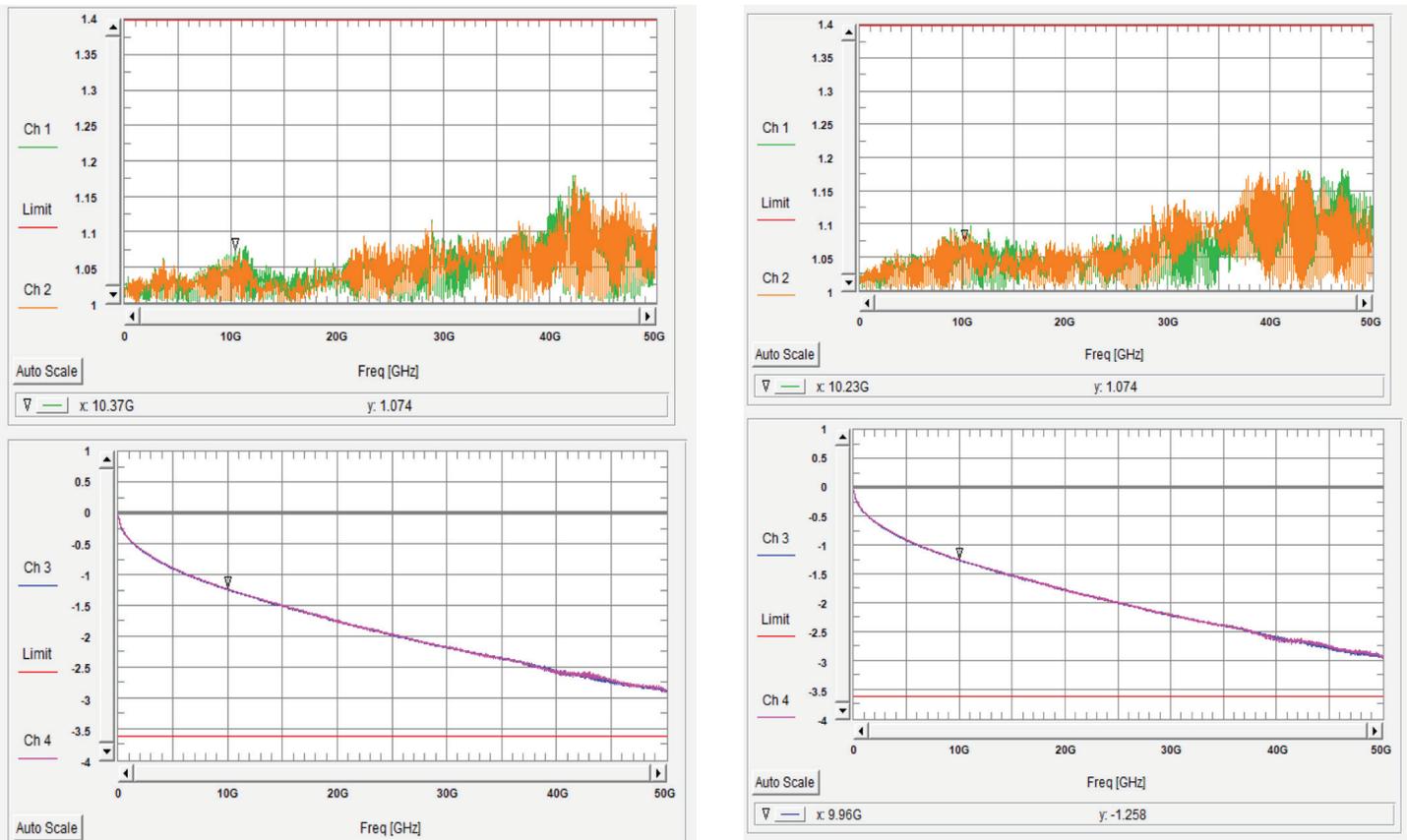


Fig. 1: VSWR and insertion loss performance of 0.079" coax cable assembly samples

Global Manufacturing. Local Support.

Wherever you are, so are we. With manufacturing centers around the globe, our highly qualified team of engineers is up to any challenge. Our extensive worldwide manufacturing capabilities, coupled with end-to-end local project management and engineering support, allow us to design, build, test, and certify your product in-house, saving you the time and hassle of managing multiple vendors.



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FACILITIES CERTIFICATIONS

- » AS9100
- » ISO 9001
- » ISO 13485
- » ISO 14001
- » ITAR registration
- » MIL-SPEC/SAE
- » RoHS compliance

Performance with Purpose



See CarlisleIT's line of RF products at:
[CarlisleIT.com/markets/test-measurement/rf-products](https://www.carlisleit.com/markets/test-measurement/rf-products)

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