



PRECISION RF

MICROWAVE/MILLIMETER WAVE CABLE ASSEMBLIES AND INTERCONNECTS

Increasing complex systems with escalating bandwidths and shrinking footprints drive Samtec to continually expand and develop our technical expertise and capabilities. This is why we've advanced our RF product line to include Precision RF interconnects.

**1.0 mm • 1.20 mm • SMPM • 1.85 mm • 2.40 mm • SMP • SSMA • 2.92 mm
3.50 mm • N Type • TNC • SMA • Adaptors • Microwave/millimeter wave assemblies**

110 GHz PERFORMANCE + VERTICAL INTEGRATION

Interconnect components to 110 GHz. Full microwave/millimeter wave cable assemblies to 65 GHz (110 GHz in development). Vertical integration of both component and cable enable the highest level of customer service and support in the industry.

LOW VSWR / EXCELLENT RETURN LOSS

At maximum frequencies, Samtec understands the fundamental necessity of minimizing signal reflections and dielectric inconsistencies.

UNMATCHED SERVICE

Our RF Technical Group and Signal Integrity Group work together to provide personal support with launch designs, custom product solutions, simulations, and physical test and measurement verifications.



For additional information and product samples contact our RF Technical Group: RFTechnicalGroup@samtec.com.

RF Microwave/millimeter wave precision interconnects offer the precision, quality and performance needed to move into the millimeter wave spectrum through 110 GHz. Products include 2.92 mm, 2.40 mm, 1.85 mm and 1.0 mm - cable components and adaptors. Designed for a wide range of use in the microwave industry, these connectors are manufactured with a precise tolerance interface to ensure superior repeatability and high mechanical stability.

FEATURES

- High-frequency bands (DC to 110 GHz)
- 2.92 mm cross-mateable to other industry standards (SMA)
- 2.40 mm and 1.85 mm are intermateable
- 1.0 mm cable connectors up to 110 GHz
- Cable components, cable assemblies and customized solutions



PRECISION RF SOLUTIONS

Cable components (PRFXX Series) only. Cables to be sourced separately.

	Type	Series	Cable	Samtec Cable Number		Type	Series	Cable	Samtec Cable Number
110 GHz	1.0 mm	PRF10	Temp-Flex 047	047	18 GHz	SMA	PRFSMA	Temp-Flex 047	047
65 GHz	1.85 mm	PRF18	Temp-Flex 047	047				Temp-Flex 085	085
			Temp-Flex 085	085				IW 1201	121
	SMPM	PRFSMPM	Temp-Flex 047	047				Harbour LL120	122
			Temp-Flex 085	085				Semi-Rigid .141	141
50 GHz	2.40 mm	PRF24	Temp-Flex 085	085				Harbour LL142	142
			IW 1401	140				Harbour SB142	143
			IW 1501	150				Dynawave DF140	145
			Dynawave DF150	155				Dynawave DF150	155
			Semflex HP160	160				Semflex HP160	160
								Semflex HP190	190
40 GHz	2.92 mm	PRF29	Temp-Flex 047	047		N Type	PRFN	MaxGain 200	200
			Temp-Flex 085	085				Semflex LA290	290
			Semi-Rigid .085 LL	086				MaxGain 300	300
			Dynawave DF118	118				Semflex HP305	305
			Semflex HP120	120				Harbour LL335	335
			IW 1201	121				Harbour LL335i	336
			Semi-Rigid .141	141				Semflex HP120	120
			Harbour LL142	142				Semi-Rigid .141	141
			Dynawave DF140	145				Harbour LL142	142
			IW 1501	150				Harbour SB142	143
			Dynawave DF150	155				Semflex HP190	190
			Semflex HP160	160				MaxGain 200	200
			Semflex HP190	190				Semflex LA290	290
			MaxGain 200	200				MaxGain 300	300
								Semflex HP305	305
								Harbour LL335	335
34 GHz	3.50 mm	PRF35	Temp-Flex 047	047		TNC	PRFTNC	Harbour LL335i	336
			Semi-Rigid .085 LL	086				Harbour LL142	142
			Temp-Flex 085	085				Semflex HP190	190
			Semflex HP120	120				Semflex LA290	290
			Semi-Rigid .141	141				Harbour LL335	335
			Semflex HP160	160					

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