RF Connector Types Chart

Coupling style, impedance, typical maximum frequency, size and common uses. Frequencies are typical limits; check the maker's datasheet for your part.

Connector	Coupling	Impedance (ohm)	Typical max frequency (GHz)	Size	Common uses
SMA	Threaded (1/4-36)	50	18 (precision to 26.5)	Small	Lab instruments, antennas, microwave modules
RP-SMA	Threaded	50	18	Small	Wi-Fi routers, wireless antennas
N-type	Threaded (5/8-24)	50 / 75	11 (precision to 18)	Large	Base stations, outdoor antennas, high power
BNC	Bayonet	50 / 75	4	Medium	Oscilloscopes, video
TNC	Threaded	50	11	Medium	GPS, aerospace, vibration-prone sites
SMB	Snap-on	50 / 75	4	Small	Board connections, telecom modules
MCX	Snap-on	50 / 75	6	Small	GPS receivers, compact devices
MMCX	Snap-on	50	6	Very small	Wireless modules, wearables
SMP	Push-on	50	40	Very small	High-density boards, 5G modules
2.92 mm (K)	Threaded	50	40	Small	Millimeter-wave labs
2.4 mm	Threaded	50	50	Small	High-frequency instruments
1.85 mm	Threaded	50	67	Small	Lab instruments
7/16 DIN	Threaded	50	7.5	Very large	Cellular base stations, high power
4.3-10	Threaded or push-pull	50	6	Large	Compact base station radios
QMA	Snap-lock	50	6	Small	Quick-connect telecom gear
F-type	Threaded or push-on	75	About 1	Medium	Cable TV, satellite TV
UHF (PL-259)	Threaded	Non-constant	0.3	Large	Amateur radio, CB radio
U.FL / IPEX	Snap-on	50	6	Micro	Laptops, IoT modules, Wi-Fi cards

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