

Typical Data for a ¼ Wave Whip Antenna

RFI offer an extensive range of hand portable antennas for PMR, SMR and trunking applications. The majority of common connector options are catered to in a variety of different formats. The range of antennas is offered in an ideal form for workshop use with most models being tuneable in the field over an extended range of frequencies using the tuning chart provided. This results in reduced inventories and allows dealers to carry antennas “off the shelf” to be tuned to customer specified frequencies as required.

HPH Series

A flexible, highly compressed helical which is fully injection moulded for maximum durability. L.O.A. is approximately 200mm at the lowest frequency and the antenna can be tuned over the range 118-175 MHz using the tuning chart supplied. Tuned bandwidth is approximately 3%.

HPU Series

These are full ¼ wave antennas for maximum performance, fully injection moulded for maximum durability. L.O.A. is approximately 200mm at the lowest frequency and the antenna can be tuned over the range 380 - 1000 MHz using the supplied tuning chart. The antenna covers UHF, 800 MHz, and Tetra applications in a single antenna. Tuned bandwidth is approximately 7%.

HPUS Series

These are flexible helically loaded ¼ wave antennas which are fully injection moulded for maximum durability. L.O.A. is approximately 175mm and the antenna can be tuned over the range 260 - 800 MHz, covering Tetra and UHF applications. Tuned bandwidth is approximately 6%.

CRD Series

These half wave dipole antennas are available only with BNC or TNC terminations and offer a true high performance UHF antenna in hand held applications. The dipole element is enclosed in a flexible PVC tubing and the antennas can be trimmed using the enclosed tuning chart over the specified band. Tuned bandwidth is approximately 2% of centre frequency.

						
MX Thread	BNC Male	TNC Male Overmoulded	SM SMA Male	SF Motorola SMA female flush dielectric	SFU Universal SMA female recessed dielectric	HT Thread

Portable radio antenna reference chart

Band	High Band <i>Helical</i>	HPU Series ¼ Wave	HPUS Series <i>Helical</i>	CRD Series <i>Dipoles</i>
Frequency <i>MHz</i>	140-250	380-1000	260-800	400-520
Tuning Specifications	Tune with chart	Tune with chart	Tune with chart	Tune with chart
BNC Plug	HPH-BNC-37	HPU-BNC-67	HPUS-BNC-67	CRD-BNC-65 CRD-BNC-68
TNC Plug	-	HPU-TNC-67	-	CRD-TNC-68
MX Thread	-	HPU-MX-67	HPUS-MX-67	-
Universal (SFU Version Recessed dielectric)	HPH-SFU-37	HPU-SFU-67	HPUS-SFU-67	-
Motorola SMA Female (SF Version Flush dielectric)	-	HPU-SF-67	HPUS-SF-67	-
SMA Male	HPM-SM-37	HPU-SM-67	HPUS-SM-67	-
HT Thread	-	HPU-HT-67	-	-

Note: Normal “stocked” configurations shown. Other formats and terminations are also available. Contact your nearest sales office for configurations not shown. (Minimum order quantities may apply on some items.)