

VHF Groundspike Antenna & Antenna Matching Unit (AMU) 30-88MHz

Type 4020-910

Racal Antennas Limited has many years of experience in design, development and manufacture of manpack/portable antennas for the military user. They have been developed after consultation with military users and radio manufacturers worldwide.

The 4020-910 ground spike antenna kit is for use with manpack radios and gives the capability to remote an antenna from its radio allowing the soldier to operate from a more secure environment, which could either be a shell scrape, tent, building, or any other protective environment. The antenna can also be elevated onto buildings and trees or used in conjunction with a 5.4m mast kit (model 4025). When the antenna is elevated with the 5.4m mast kit operating range of the radio is significantly improved.



Electrical Specification	The specifications in this section apply when the Ground Spike Antenna is mounted in the ground mounted role or when mounted in the 5.4 Metre manpack mast
Frequency Range	30-88MHz
Polarisation	Vertical
Horizontal Radiation Pattern	Omnidirectional
Power Rating	25W CW
Impedance	50 Ω
VSWR	≤3.5:1, but this may rise to 4:1 for less than 5% of the frequency range
Gain	>-5dB compared to a tuned dipole antenna.
Radio Interface	BNC
Mechanical Specification	
Height	2260mm (Ground Spike Antenna)
Weight	1.9kg
Mounting Configuration	Ground, building, shelter or mast mounted
Environmental Specification	
Temperature	Operational -40°C to +70°C Storage -55°C to +85°C
Humidity	Up to 95% RH up to 55°C

Equipment	Qty	Part number
Ground Spike Antenna Matching Unit	1	4020-115-01
Spike	1	4020-116-01
Ground Radial Elements	3	4020-117-01
Throwing Cord	1	4020-118-01
Carrying Bag	1	4020-110-01
Whip Section	1	4020-107-01
Coax Cable (15m) BNC Male	1	4020-140-01

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Racal reserve the right to vary in detail from the description and specification in this publication.