

ANTENNA KITS

VHF: 138-174 MHz
 UHF: 450-470 MHz
 900 MHz: 890-960 MHz



900 MHz Antenna Kit



UHF Antenna Kit

Dataradio makes system installation easier with antenna kits for VHF, UHF, and 900 MHz frequencies. The kits include a premium quality Yagi antenna, mounting bracket, surge protector, grounding kit, LMR-400 antenna feedline, cable ties and weather kit - all of the necessary antenna components that fill your need to get a system on the air.

Each antenna features a high strength 6061-T6 welded aluminum design to provide corrosion resistance, which combined with the grounding and weather kit components, gives you an antenna you can depend on even in the harshest environments.

Dataradio antenna kits were created to give our customers a single, convenient package for hassle-free integration and the quality components they expect for superior system performance.

We serve automation and control customers in 40 countries around the world with the broadest line of advanced wireless data products in the industry. Our wireless data communications products are available in licensed band 132 MHz - 900 MAS and unlicensed spread spectrum, supporting baud rates from 4800 to 19200. Dataradio wireless modems are certified to meet or exceed FCC, IC, CE and ETSI international standards.

Our products are consistently chosen by consultants, system integrators, end users, OEMs and government installations. With our antenna kits, it's easier to make Dataradio your source for complete wireless data solutions. Dataradio UHF Antenna Kit

ANTENNA SPECIFICATIONS

DRL Part Number:	250-0211-X07	250-0211-X10	250-0241-507	250-0241-510	250-0291-406E	250-0291-410E
Frequency range	138-174 MHz		450-470 MHz		890-960 MHz	
Nominal gain	6.5 dB	9.5 dB	7 dB	10 dB	6 dB	10 dB
Bandwidth VSWR 1.5	4% of Range		30 MHz	30 MHz	90 MHz	90 MHz
Front to back ratio	15 dB	17 dB	12 dB	20 dB	15 dB	20 dB
Horizontal beamwidth (at half power points)	65 deg		100 deg	55 deg	65 deg	50 deg
Vertical beamwidth (at half power points)	55 deg	47 deg	65 deg	48 deg	60 deg	45 deg
Power rating	200 watts	300 watts	200 watts			
Lightning protection	DC ground					
Termination	N male (SMA with jumper cable converter)					
End-to-end length	66" (1829 mm)	90" (2510 mm)	18" (457 mm)	44" (1118 mm)	14" (305 mm)	24" (610 mm)
Maximum element length	40" (1016 mm)	42" (1066 mm)	13.8" (351 mm)	14.3" (362 mm)	6.8" (173 mm)	6.8" (173 mm)
Weight	3 lbs (1.4 kg)	6.5 lbs (2.95 kg)	3 lbs. (1.4 kg)	5 lbs. (3 kg)	1.5 lbs. (.7 kg)	1.5 lbs. (.7 kg)
Rated wind velocity	160 mph (259 kph)			150 mph (241 kph)		
Rated wind velocity (with .5" radial ice)	89 mph (143 kph)			120 mph (193 kph)		
Lateral thrust @ 100 mph wind velocity	48 lbs (22 kg)	82 lbs (36.9 kg)	8.3 lbs (3.8 kg)	23 lbs. (10.5kg)	4.5 lbs. (2kg)	7 lbs. (3.2 kg)

SURGE PROTECTION SPECIFICATIONS

Polyphaser model	B50LNC-2 (bulkhead mount)
Voltage standing wave ratio	1.1:1
Impedance	50 Ω
Frequency range	125 - 1000 MHz
Connectivity	Type N - female

LMR-400 CABLE SPECIFICATIONS

Attenuation	3.9 dB/100 ft (12.8 dB/100 m)
Connectivity	Type N - male

ANTENNA FEEDLINE

Dataradio Part Number	Description
250-0200-025*	25 feet antenna feedline, N Male
250-0200-055	55 feet antenna feedline, N Male

*Note: 25 feet of antenna feedline is included in the UHF and 900 MHz kits. Feedline is sold separately for VHF antenna kits.