




3G Antenna and Cable Options





Virtual Access offers a variety of antennas as every 3G wireless deployment is different. When selecting an antenna for your device, you should consider factors such as the installation environment, mounting options and the distance between router and antenna location.

We provide most antennas with a cable length of up to 5 meters. We recommend you keep the cable length as short as possible to minimise cable-caused attenuation.

If you need a longer cable depending on your device deployment, we offer custom length, low loss extension cables. See page 3 for detailed cable descriptions.

3G Antennas




| VA Model Number | | Description |
|-----------------|---|---|
| 4015-000-100 |  | 3G Rubber Antenna (Standard supplied antenna) <ul style="list-style-type: none"> • Right angle mount • SMA male connector <p>Length: 140mm Mounting method: Direct contact Operating/storage temperature: -30° to +75°C Frequencies: 850; 900; 1800; 1900; 2100MHz Gain: 2.5dBi VSWR: <2 Max input power: (W): 50 Input Impedance: (Ω): 50 Polarization: Vertical</p> |
| 4015-000-400 |  | External Blade <ul style="list-style-type: none"> • Protective cover for durability • Ideal for telematics/telemetry • Quad band frequency support <p>Dimensions: 25 x 72 x 2.5mm Case: Black moulded plastic Cable: 3m RG174 Connector: SMA male connector Mounting method: Adhesive Temperature range: -30° to +75°C Frequencies: 850; 900; 1800; 1900; 2100MHz</p> |
| 4015-000-500 |  | External Through Hole <ul style="list-style-type: none"> • Wide range frequency • Panel mounted <p>Dimensions: 76 x 29mm Cable: Up to 5m RG58 Connector: SMA male connector Mounting method: Through hole mount Temperature range: -40° to +85°C Frequencies: 900; 1800; 1900; 2100MHz Gain: 2dBi VSWR: <2:1</p> |

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|--------------|---|--|
| 4015-000-600 |  | <p>Magnetic Mount External</p> <ul style="list-style-type: none"> • Multi-band antenna works on all cellular and 3G networks • 5dBi gain for better transmission/reception range <p>Dimensions: 300 x 29mm Cable: 5m Connector: SMA male Mounting method: Magnetic Temperature range: -40° to +85°C Frequencies: 850; 900; 1800; 1900; 2100MHz Gain: 5dBi VSWR: <2:1</p> |
| 4015-000-900 |  | <p>3G Magnetic Antenna</p> <ul style="list-style-type: none"> • Ideal for restricted operating areas and for portable operation • Supports cellular GSM and 3G networks <p>Dimensions: 290 x 45mm Cable: 5m RG174 Connector: SMA male Mounting method: Magnetic Temperature range: -45° to +75°C Frequencies: 850; 900; 1800;1900; 2100MHz Gain: 3dBi VSWR: ≤1.5:1</p> |
| 4015-000-700 |  | <p>FDO Penta-band High Gain Omni</p> <ul style="list-style-type: none"> • Ideal for fringe network areas • Covers 850/900/1800/1900/2100 MHz bands <p>Dimensions: 544 x 54mm including bracket Cable: No cable included Connector: N-female connector Mounting method: Mounting bracket Temperature range: -30° to +80°C Frequencies: 824-960/1710-2170MHz Gain: 4/5dBi VSWR: <2.5:1</p> |
| 4015-000-800 |  | <p>WMO Wall-mount Multi-band Omni</p> <ul style="list-style-type: none"> • Ideal for outdoor applications • Pentaband cellular, GSM and 3G operation <p>Dimensions: 250 x 25mm (hxd) including bracket Cable: 5m RG58 with SMA male to SMA male connector Connector: SMA-female connector Mounting method: Mounting bracket Temperature range: -30° to +80°C Frequencies: 824-960/1710-2170MHz Gain: 2.14dBi VSWR: <2:1</p> |

Custom Length Antenna Extension Cables

Virtual Access offers a variety of custom length extension cables.

Note: in the cable part number, xx refers to the length of cable required. For example, a 10 metre BWL195 SMA male connector cable will have a part number 840-00022-10.

| VA Model Number | | Description |
|-----------------|---|---|
| 840-00022-xx |  | <p>BWL195 SMA male connector</p> <ul style="list-style-type: none"> • Low loss 50 Ohm coaxial cable • SMA male to SMA male connector <p>Outer diameter: 4.95mm Minimum bend radius: 25/50mm Attenuation per metre at 2GHz: 0.48dB</p> |
| 840-00023-xx |  | <p>BWL195 N type connector</p> <ul style="list-style-type: none"> • Low loss 50 Ohm coaxial cable • N type male to SMA male connector <p>Outer diameter: 4.95mm Minimum bend radius: 25/50mm Attenuation per metre at 2GHz: 0.48dB</p> |
| 840-00024-xx |  | <p>BWL400 N type connector</p> <ul style="list-style-type: none"> • Ultra low loss 50 Ohm coaxial cable • N type male to SMA male connector <p>Outer diameter: 10.30mm Minimum bend radius: 50/100mm Attenuation per metre at 2GHz: 0.19dB</p> |