

Accessories

869/900 MHz ANTENNAS

-2dB Whip Antenna WI-ANT-DEMO-900

The WI-ANT-DEMO-900 is a quarter-wave whip antenna. It can be used for short distance applications, where the wireless unit and antenna are mounted inside a non-metallic enclosure.

As the whip antenna is "ground-dependent", the gain and distance depends on the installation environment.

Type	Part No.
WI-ANT-DEMO-900	6720005089



WI-ANT-DEMO-900
Whip Antenna

-2dB Whip Antenna WI-ANT-DPL-2-6-54

The WI-ANT-DPL-2-6-54 whip antennas are suitable for the 900MHz products. These antennas have less gain than the WI-ANT-DPL-0-16 however are smaller and are preferred where space is tight.

The WI-ANT-DPL-2-6-54 is fitted with approximately 16 feet / 5 meters RG8 coaxial cable and SMA male connector. Further coaxial extensions are not recommended with this antenna.

The WI-ANT-DPL-2-6-54 is mounted from the base through a 3/8" (10mm) hole. This compact antenna is designed for short range use only.

The antenna is suitable for internal or external mounting. This antenna may be used on vehicles with a suitable bracket not supplied or when mounted in the panel work.

Type	Part No.
WI-ANT-DPL-2-6-54	6720005086



WI-ANT-DPL-2-6-54
Whip Antenna

0dB Dipole Antenna WI-ANT-DPL-0-16

The WI-ANT-DPL-0-16 is a ground independent half wave dipole suitable for the 900MHz products. It is a slimline, lightweight antenna that is easily mounted - this antenna is the most common antenna used in applications within industrial plants or factories.

The antenna has 15 feet / 5 meters of RG58 Cellfoil coaxial cable already terminated with a crimped SMA male connector. This antenna should not be used with additional lengths of coaxial cable - where longer lengths are required, used the WI-ANT-CLR-900-5-32 antenna or higher gain antenna. This compact antenna is made for vertical mounting. Correctly installed, this antenna will provide a net unity gain after allowing for the loss of the attached coaxial cable. The pack includes a standard pole bracket and clamps made from grade 304 stainless steel.

Type	Part No.
WI-ANT-DPL-0-16	6720005080



WI-ANT-DPL-0-16
Dipole Antenna

5dB Collinear Antenna WI-ANT-CLR-900-5-32

The WI-ANT-CLR-900-5-32 collinear antenna may be used for external or internal mounting. The WI-ANT-CLR-900-5-32 is a slimline, lightweight antenna that is easily mounted. A short RG58 coaxial tail is terminated with a crimped N-Type female connector. This compact antenna is made for vertical mounting clear from obstructions.

The pack includes a standard pole bracket made from grade 304 stainless steel (included with the antenna).

Type	Part No.
WI-ANT-CLR-900-5-32	6720005081



WI-ANT-CLR-900-5-32
5dB Collinear Antenna

8dB Collinear Antenna WI-ANT-CLR-900-8-54

The WI-ANT-CLR-900-8-54 collinear antenna is a slimline, lightweight antenna which is easily mounted, with a N-Type female connector. The WI-ANT-CLR-900-8-54 antenna is mounted at the base tube by U bracket (WI-BR-CLR-KIT). This antenna is used when maximum range is required or as a base station antenna.

Type	Part No.
WI-ANT-CLR-900-8-54	6720005082



WI-ANT-CLR-900-8-54
8dB Collinear Antenna

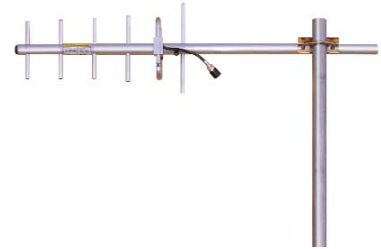
869/900 MHz ANTENNAS (continued)

9dB 6 and 15dB 15 element Yagi Antenna WI-ANT-YGI-10-6, WI-ANT-YGI-15-16

The WI-ANT-YGI-10-6 6 element and WI-ANT-YGI-15-16 15 element Yagi antennas are made for use with the WI-I/O-9 series telemetry products.

They are designed for pole mount and to be clear from obstructions. The narrow beamwidth and high front to back ratio is effective in reducing the affects of interference and extending radio range. Mounting brackets are supplied separately with these antennas.

A standard female N-Type connection from a 6"/150 mm tail provides a simple connection method when using the WI-BR-YAGI-KIT.



**WI-ANT-YGI-10-6,
WI-ANT-YGI-15-16
Yagi Antenna**

Type	Part No.
WI-ANT-YGI-10-6	6720005084
WI-ANT-YGI-15-16	6720005085

2.4 GHz ANTENNAS

0dB Whip Antenna WI-ANT-DEMO-2400

The WI-ANT-DEMO-2400 is a quarter-wave whip antenna. It can be used for short distance applications, where the wireless unit and antenna are mounted inside a non-metallic enclosure.

As the whip antenna is “ground-dependent”, the gain and distance depends on the installation environment.



**WI-ANT-DEMO-2400
Whip Antenna**

Type	Part No.
WI-ANT-DEMO-2400	6720005099

3dB Collinear Antenna WI-ANT-DPL-0-9

The WI-ANT-DPL-0-9 is a ground independent collinear antenna that may be used for external or internal mounting.

The WI-ANT-DPL-0-9 is a slimline, lightweight antenna that is easily mounted. Approximately 15 feet (5m) of low loss RG58 coaxial cable is terminated with a male SMA connector. This compact antenna is made for vertical mounting clear from obstructions.

Correctly installed this antenna will provide unity gain with the attached coaxial cable. The pack includes a standard pole bracket and clamps made from grade 304 stainless steel.



**WI-ANT-DPL-0-9
3dB Collinear Antenna**

Type	Part No.
WI-ANT-DPL-0-9	6720005090

5dB Collinear Antenna WI-ANT-CLR-5-20

The WI-ANT-CLR-5-20 collinear antenna may be used for external or internal mounting.

The WI-ANT-CLR-5-20 is a slimline, lightweight antenna that is easily mounted. A short RG58 coaxial tail is terminated with a crimped N-Type female connector. This compact antenna is made for vertical mounting clear from obstructions.

The pack includes a standard pole bracket made from grade 304 stainless steel. At data link 2.4 GHz frequencies, it is important to keep cable runs to the shortest length possible.



**WI-ANT-CLR-5-20
5dB Collinear Antenna**

Type	Part No.
WI-ANT-CLR-5-20	6720005091

10dB Collinear Antenna WI-ANT-CLR-8-34

The WI-ANT-CLR-8-34 is a vertically polarized collinear gain antenna designed for communications in the base and mobile ISM 2.4 GHz data link band.

Construction consists of copper internals and a black fiberglass radome. An N-Type Female connector is built into the high quality stainless steel mount tube.

Black Radome is provided to improve the antennas resistance to ice build up. This sturdy and compact design allows the antenna to be conveniently mounted on a mast, building or vehicle. The pack includes a standard 304 stainless steel pole clamp.



**WI-ANT-CLR-8-34
10dB Collinear Antenna**

Type	Part No.
WI-ANT-CLR-8-34	6720005092

Accessories

2.4 GHz ANTENNAS (continued)

18dB Element Yagi Antenna WI-ANT-YGI-18

The 18 element Yagi antenna is designed for pole mount and to be clear from obstructions.

Black Radome is provided to improve the antennas resistance to ice build up. The narrow beam width and high front to back ratio is and extending radio range. A standard female N-Type connection from a 150mm tail provides a simple connection method when using the WI-CCSMA-N-33. Mounting brackets are supplied with this antenna.



WI-ANT-YGI-18
18 Element Yagi Antenna

Type	Part No.
WI-ANT-YGI-18	6720005093

COAXIAL CABLE KITS AND ACCESSORIES

Coaxial Lead WI-CCTAIL-SMA-24

The WI-CCTAIL-SMA-24 is a 600mm (24 inch) RG58 coaxial lead. This flexible coaxial "tail" is used inside enclosures to link large diameter coaxial cables (such as RG213 or LDF4) to the wireless units.

The WI-CCTAIL-SMA-24 is terminated with a flanged N-Type (female) bulkhead connector at one end and an SMA connector at the other end.



WI-CCTAIL-SMA-24
Coaxial Lead

Type	Loss @ 900MHz	Loss @ 2.4 GHz	Part No.
WI-CCTAIL-SMA-24	0.8dB	1.2dB	6720005103

Coaxial Cable Kits WI-CCSMA-N-10, WI-CCSMA-N-33, WI-CCSMA-N-66

The WI-CCSMA-N-10, WI-CCSMA-N-33 and WI-CCSMA-N-66 coaxial cable kits are designed for use between wireless units and external mounted antennas. The coaxial cable is terminated and tested alleviating time-consuming field termination work.

The WI-CCSMA-N-10 is 3.05 meters (10 feet) long, WI-CCSMA-N-33 is 10 meters (33 feet) long and the WI-CCSMA-N-66 is 20 meters (66 feet) long.

The kits are terminated with a N-type male connector at the antenna end of the cable. For the wireless end, kits are available with either SMA or BNC connectors to suit different products.



WI-CCSMA-N-10, WI-CCSMA-N-33,
WI-CCSMA-N-66
Coaxial Cable Kits

Type	Loss @ 900MHz	Loss @ 2.4 GHz	Part No.
WI-CCSMA-N-10	1.0dB	2.0dB	6720005100
WI-CCSMA-N-33	3.2dB	5.9dB	6720005101
WI-CCSMA-N-66	6.2dB	11.4dB	6720005102

Low Loss Coaxial Cables

For cables longer than a WI-CCSMA-N-66 kit (or WI-CCSMA-N-33 for 2.4GHz), low loss coaxial cables such as LDF4 should be used. Low loss cables have large diameters with large bending radii and are not suitable for direct connection to wireless modules.

Experience is required to terminate this type of cable and the coaxial manufacturer is able to assist. Consider using Andrew LDF4-250 1/2 inch - www.andrew.com

Connecting Cables for "L" Series

The WI-CSER-RJ45 cable is used to connect and perform diagnostic and configuration with the unidirectional Transmitter/Receiver units including the WI-I/O-L-T and WI-I/O-L-R. This high quality cable is fitted with a molded DB9 on one end and an RJ45 connector on the other.



WI-CSER-RJ45
Connecting Cables for "L" Series

Type	Part No.
WI-CSER-RJ45	6720005108

Serial to Serial Connectivity Cables

The WI-CSER-905-9 Serial cable is used for all Weidmüller telemetry products, allowing connection to your computer or laptop's RS232 port, for diagnostic and configuration. This high quality cable is fitted with a molded DB9 male and DB9 female connector. The cable connection is "straight-through".



WI-CSER-905-9
Serial to Serial Connectivity Cables

Type	Part No.
WI-CSER-905-9	6720005105

COAXIAL CABLE KITS AND ACCESSORIES (continued)

Coaxial Surge Diverter WI-DIV-CCMA (-1 dB loss)

The WI-DIV-CCMA coaxial surge diverter is installed between the antenna and the wireless unit to reduce lightning surges entering the module.

The WI-DIV-CCMA has an SMA connector and can be mounted directly to the module - it is suitable for the 450 MHz, 968/900 MHz and 2.4 GHz products. It can be used for 400MHz products with an SMA connector for added protection, however these already have an internal surge diverter.

A surge diverter is normally not required where an antenna is surrounded by a lot of steelwork, as in an industrial plant. The WI-DIV-CCMA is recommended where the antenna installation is NOT surrounded by steelwork, or in areas of high electrical storm activity where additional protection is desired.

The WI-DIV-CCMA requires additional weatherproofing if used externally.

If the module is mounted in a high vibration area or if large diameter coaxial cable (low loss) is being used, then the WI-DIV-CCMA should not be mounted directly onto the module. In these circumstances a short coaxial "tail" should be inserted between the module and the WI-DIV-CCMA.

The WI-DIV-CCMA will only work effectively with a good ground connection. The ground connection on the CSD, and the ground connection on the wireless module must be connected together. The common ground should be connected to the same ground point as the antenna mounting.

Warning: Do not stay near operating equipment during an electrical storm. The surge diverter will not provide protection to personnel.



WI-DIV-CCMA
Coaxial Surge Diverter

Type	Part No.
WI-DIV-CCMA	6720005111

ANTENNA MOUNTING ACCESSORIES

Collinear Mounting Brackets WI-BR-CLR-KIT

The Collinear antenna requires two mounting brackets to hold the antenna in position. The bracket assemblies consist of 1xU-Bolt 3xD-plates with nuts and washers in each set. The brackets are zinc plated mild steel.

This simple method of mounting provides a solid support that will support the antenna for many years.

This mounting provides an excellent earth to the main pole. This pole should preferably have a low resistance to ground.

Mounting brackets may be replaced if the antenna is dismantled for maintenance.

The brackets are suitable for pole sizes up to a maximum 2" (50mm) in diameter.



WI-BR-CLR-KIT
Collinear Mounting Brackets

Type	Part No.
WI-BR-CLR-KIT	6720005110

Yagi Mounting Bracket WI-BR-YAGI-KIT

The Yagi antenna requires a single mounting bracket. The bracket assembly consists of 1xU-Bolt 1xD-plate with nuts and washers. The brackets are zinc plated mild steel.

This simple method of mounting provides a solid support that will permanently support the antenna.

This mounting also provides an excellent earth to the main pole. This pole should preferably have a low resistance to ground.

Mounting brackets may be replaced if the antenna is dismantled for maintenance.

The brackets are suitable for pole sizes up to a maximum 2" (50mm) in diameter.



WI-BR-YAGI-KIT
Yagi Mounting Bracket

Type	Part No.
WI-BR-YAGI-KIT	6720005109

WI-PS110/20

For wireless products that will accept 20 VDC. The plug pin arrangement is suitable for 110V power sockets



WI-PS110/20

Type	Part No.
WI-PS110/20	6720005104