

WPANT40012-CA

Flexible ISM Antenna for Smart Meters (AMI)



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8.5" micro co-ax with IPX MHF

Note: Different cable and connector style requests can be accommodated.

Application

This antenna is tuned to perform the best when wrapped around an energy meter. Its high performance design is specifically tailored to sustain high noise environments that exist in a typical energy meter.

We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further help to troubleshoot system integration issues such as TRP/TIS and FCC requirements.

Electrical Properties

Operating Frequency	902 – 928 MHz	2.4 – 2.5 GHz
Approximate Antenna Impedance [Ω]	50 Ω	50 Ω
VSWR (Typical)*	< 2.5:1	< 2.5:1
Peak Gain [dBi] (Typical)*	3 dBi	3.5 dBi
Efficiency [%] (Typical)*	60 %	65 %
Polarization	Linear	Linear
Pattern	Near Omni-directional	Near Omni-directional

***Note:** The above mentioned relevant performance metrics are recorded with the Antenna placed inside L&G & GE Electric meters. Any modifications with regards to the application/use of this antenna (as defined in this specification) may change antenna performance characteristics. Performance will also vary based on the placement positions of the antenna in the meter. Please contact WPI design team for optimization & placement selection on any meter.

Mechanical / Environmental Properties

Antenna Dimensions	6.7" x 1" x 0.01" ** (170mm x 25mm x 0.25mm)
Antenna Color	Blue
Tape on the Back	6mm wide 4930 3M Double Stick
Operating / Storage Temperature	-40°C to +90°C
UV Tolerance	100% UV Resistant
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

** Thickness is 0.88mm including the tape on back

Pictures

