

WPANT40024

Flexible ISM Antenna for Smart Meters (AMI)



WPANT40024-S1A

7.3" RG316 with Type-N Female

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	860 – 960 MHz	2.4 – 2.5 GHz
Approximate Antenna Impedance [Ω]	50 Ω	50 Ω
VSWR (Typical)*	< 3:1	< 3:1
Peak Gain [dBi] (Typical)*	3 dBi	3.5 dBi
Efficiency [%] (Typical)*	55 %	60 %
Polarization	Linear	Linear
Pattern	Near Omni-directional	Near Omni-directional

**Note:* The above mentioned relevant performance metrics are recorded with the antenna placed on a typical meter cap/drum. Please contact WPI design team for optimization & placement selection on any meter.

Mechanical / Environmental Properties

Antenna Dimensions	6.7" x 1.3" x 0.072" ** (170mm x 32.5mm x 1.85mm)
Antenna Color	Cool Grey
Top Cover	10 mils thick PET layer (UV Resistant)
Tape on the Back	45 mils thick 3M VHB 4941 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

