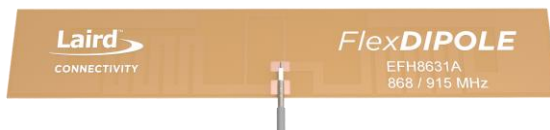


## FLEXIBLE, SMALL DIPOLE ANTENNA FOR SUB-GHZ APPLICATIONS



The Sub-GHz FlexDIPOLE antenna design offers exceptional versatility and robust performance in most demanding conditions. With a small footprint and with unparalleled flexibility this antenna helps engineers to address real-world challenges in antenna design.

The Laird Connectivity 868/915 MHz FlexDIPOLE antenna is perfectly tuned for operation within the sub-GHz frequency bands, making them an ideal choice for applications such as LoRaWAN or other proprietary sub-GHz technologies. Antennas are available with both MHF1 and MHF4L connector options.

With dipole antenna technology at its core, you can count on consistent and reliable performance across the entire 868 and 915 MHz ISM bands, ensuring a stable and dependable connection at all times.

- **Coverage** – 863-928 MHz operation
- **Performance** – Exceptional performance across operating frequency
- **Versatile** – Compact design with adhesive backing.
- **Benefit** – Quick and easy installation
- **Installation** – On different non-conductive surfaces and thicknesses  
– On flat or semi-curved surfaces

### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	863-870	902-928
Peak Gain (dBi)	+1.9	+2.4
Average Efficiency (dB)	> -1.9	> -1.4
VSWR(MHz)	< 3.0:1	< 3.0:1
Impedance (Ohms)	50	
Polarization	Linear	

### MECHANICAL SPECIFICATIONS

Antenna Type	Flexible Planar Dipole Antenna (FlexDIPOLE)	
Dimensions – length x width x height – mm (inches)	75.8 x 13.75 x 0.1 (2.98 x 0.54 x 0.004)	
Color	Clear Yellow	
Adhesive	3M 100MP	
Connector Mating Height (max) - mm	MHF1(U.FL) - 2.5	MHF4L - 1.4

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature – °C (°F)	-40 to +85°C (-40 to +185°F)
Material Substance Compliance	RoHS

## CONFIGURATION

PART NUMBER	CABLE LENGTH	CONNECTOR
EFH8631A3S-10MHF1	100 mm	MHF1
EFH8631A3S-10MH4L	100 mm	MHF4L

## APPLICATION AREAS



**Industrial Automation**



**SCADA**



**Agriculture**



**Smart Transportation**

**Note:** Specifications are based on the 100mm cable length, standard antenna version with MHF1 / U.FL connector. Varying the cable length or type or connector will cause variations in these antenna specifications.  
Antenna is DC short at the feed, so end-user applications should ensure AC coupling/DC block at the RF output, if required.

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