



a division of

**PHARAD**

Antennas, Photonics, & RF Communications



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# Wearable Antennas



Featuring  
Flexenna® Technology

Pharad has developed and manufactures the most comprehensive wearable antenna product offering in the industry. The unique form factor of these antennas are made possible by incorporating Pharad's patented Flexenna® flexible antenna technology. These wearable antennas are the ideal antenna solution for users requiring integrated textile antennas, including first responders, soldiers, marines, and security/intelligence personnel operating covertly. Our body wearable antennas are fabricated using state-of-the-art, thin flexible materials that conform to the exterior of the body and outer garments. The lightweight, unobtrusive design and flush mounting provide the most user-friendly alternative to whip or stub antennas. Communications link performance is maintained without hindering the user's vision or mobility. We offer various mounting configurations and spatially diverse antenna systems that further enhance link performance. Standard connector options allow these antennas to easily connect to most radios.

## Wearable Antenna Products

Frequency	Application	Base Model Number*	Standard Connector†	Available Carriers‡
2 - 30 MHz	HF	BW-2-30	B	M, V
30 - 512 MHz	SINCGARS, MBITR	BW-30-512	T	C, M, V
30 - 6000 MHz	EW, ISR, Comms	BW-30-6000	N	M
200 - 260 MHz	230 MHz Applications	BW-200-260	S	C, V
225 - 2500 MHz	JTRS	BW-225-2500	S	V
330 - 380 MHz	UHF Communications	BW-330-380	S	C, M, V
350 - 450 MHz	UHF Communications	BW-350-450	S	C, M, V
380 - 450 MHz	TETRA	BW-380-450	S	C, M, V
420 - 450 MHz	EPLRS	BW-420-450	S	C, M, V
470 - 480 MHz	Application Specific	BW-470-480	S	C, M, V
800 - 900 MHz	800 MHz Voice	BW-800-900	S	C, M, V
800/900/1800/1900 MHz	Quad Band GSM/Cellular	BW-800/900/1800/1900	S	C, M, V
900 - 1000 MHz	900 MHz ISM	BW-900-1000	S	C, M, V
900 - 6000 MHz	Multiband Applications	BW-900-6000	S	C, M, V
1228/1575 MHz	GPS L1/L2	BW-1228/1575	S	C, M, V
1575 MHz	GPS L1-Active	BW-1575-A	S, T	M
1616 - 1627 MHz	Iridium	BW-1616-1627	S	C, M, V
2400 - 2500 MHz	WLAN/PRR	BW-2400-2500	S	C, M, V
2400 - 2500 MHz	WLAN Enhanced Gain	BW-2400-2500-EG	S	C, M, V
3000 - 10000 MHz	UWB	BW-3000-10000	S	C, M, V

\* Dual radiator diversity configurations (-D) available for most models

† B = BNC Connector  
T = TNC Connector  
S = SMA Connector  
Q = QMA Connector  
N = N-Type Connector

‡ C = Covert Vest Antenna/Radio Harness  
M = MOLLE Compatible Antenna Pouch  
V = Tactical Vest Antenna/Radio Carrier

Other configurations, connectors, and custom configurations are available. Call Pharad for details and pricing.

Model: BW-2400-2500

## Integration Examples



## Available Wearable Antenna/Radio Carriers

MOLLE Compatible Pouches	Covert Harnesses	Tactical Vests
<p>Model: BW-MH-1</p>	<p>Model: BW-CH-1</p>	<p>Model: BW-VH-1</p>

These antennas are intended for occupational use only to satisfy FCC RF energy exposure requirements. These antennas have been designed to comply with the IEEE (FCC) exposure limits for occupational/controlled RF exposure environments at usage factors of up to 50% talk-50% listen for radios transmitting up to 5 W power at the antenna's operating frequencies.