The DB411-B uses a 4-stack collinear array of folded dipole elements to provide high gain and constant performance over a broad offset horizontal pattern. Mounts to the top or side of a tower or structure.

- **Extremely Rugged** — Resists winds to 125 mph (201 km/hr).
- **Broad Response** — With 14 to 24 MHz bandwidth, this antenna is suitable for duplex operation.
- **Moisture Resistant** — VAPO® air cable harness provides weather protection and assures inphase signal distribution to all elements.
- **Key Applications** — Ideal for mobile systems requiring additional gain over a sector or along a coast or area with geographical boundaries.
- **Sturdy Construction** — Mast and elements are made of high-strength aluminum alloys.
- **Lightning Resistant** — Radiators operate at DC ground, and the aluminum mast, with its pointed top, provides a low resistance discharge path to the tower or ground system.

**ELECTRICAL DATA**

- **Frequency Ranges** — MHz 450-470
- **Bandwidth** — Same as above
- **VSWR** — 1.5 or less
- **Nominal Impedance** — Ohms 50
- **Gain (over half-wave dipole)** — dBd 9
- **Rated Power Input** — Watts 250
- **Vertical Beamwidth (half-power)** — 14°

**MECHANICAL DATA**

- **Mast (aluminum)** — in. (mm) 1.75 (44.45) OD with 0.062 (1.575) to 0.125 (3.175) wall
- **Radiating Elements (aluminum)** — in. (mm) 0.375 (9.525) OD with 0.058 (1.473) wall
- **Maximum Exposed Area (flat plate equivalent)** — ft² (m²) 1.5 (.139)
- **Wind Rating:**
  - Survival w/o ice — mph (km/hr) 100 (161)
  - Survival with 0.5° (12.7 mm) Radial Ice — mph (km/hr) 90 (145)
  - Lateral Thrust at 100 mph (161 km/hr) — lbs. (N) 60 (266.9)
  - Bending Moment at Top Clamp at 100 mph (161 km/hr) — ft. lbs. (kg m) 170 (23.53)
- **Overall Length** (450-470 MHz) — ft. (m) 9.42 (2.87)
- **Net Weight in Clamp — lbs. (kg)** 25 (11.34)
- **Shipping Weight — lbs. (kg)** 27 (12.25)
- **Mounting Clamps** (Galv. steel) — DB365-0S

* Antenna mounted at top of tower. Rating is substantially increased when antenna is side mounted with appropriate mounting kit.

Calculation of wind survivability does not include damage due to flying debris.