

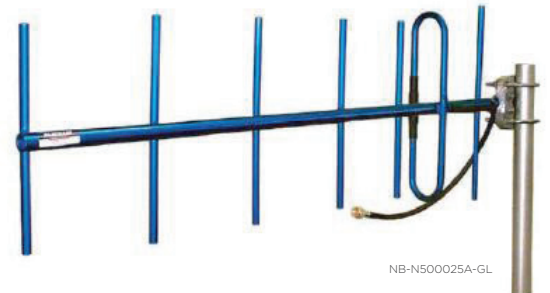


400 MHz Industrial Yagi Antennas

Industrial applications require deployment in harsh environments where equipment must survive and operate at top performance during many years of mission critical use.

Cambium's line of premium-grade industrial antennas is designed with the following key features and capabilities:

- Designed to withstand heavy ice, high wind, wide temperature swings and other harsh conditions.
- Manufactured using high strength aircraft-quality aluminum with all joints welded as well as the integral feed line welded for additional strength and improved electrical conductivity.
- Anodized surfaces for long life, improved aesthetics and corrosion resistance
- Mounting bracket included to support either Horizontal or Vertical polarization applications
- Available in both stand-alone and with an optional complete turn-key installation kit
- Integrated in Cambium's LINKPlanner software for network planning of capacity and availability



NB-N500025A-GL



NB-N500024A-GL

SPECIFICATIONS

MODELS

NB-N500024A-GL	Yagi Antenna, 406-430 MHz 6.5 dBd, Single Pol
NB-N500025A-GL	Yagi Antenna, 406-430 MHz 10 dBd, Single Pol
NB-N500026A-GL	Yagi Antenna, 450-470 MHz 6 dBd, Single Pol
NB-N500027A-GL	Yagi Antenna, 450-470 MHz 10 dBd, Single Pol
NB-N500034A-GL	Yagi Antenna with Install Kit, 406-430 MHz 6.5 dBd, Single Pol
NB-N500035A-GL	Yagi Antenna with Install Kit, 406-430 MHz 10 dBd, Single Pol
NB-N500036A-GL	Yagi Antenna with Install Kit, 450-470 MHz 6 dBd, Single Pol
NB-N500037A-GL	Yagi Antenna with Install Kit, 450-470 MHz 10 dBd, Single Pol

SPECIFICATIONS

PERFORMANCE	NB-N500024A-GL	NB-N500025A-GL	NB-N500026A-GL	NB-N500027A-GL
Gain	6.5 dBd	10 dBd	6.0 dBd	10 dBd
Number of Elements	3	7	3	7
Polarization	Single (H or V)	Single (H or V)	Single (H or V)	Single (H or V)
Frequency Range	403 to 430 MHz	403 to 430 MHz	450 to 470 MHz	450 to 470 MHz
Azimuth Half Power Beamwidth	104 degrees	52 degrees	104 degrees	50 degrees
Elevation Half Power Beamwidth	62 degrees	46 degrees	65 degrees	45 degrees
Front to Back Ratio	15 dB	20 dB	15 dB	20 dB
Maximum Power	250 W	250 W	250 W	250 W
Nominal Impedance	50 ohms	50 ohms	50 ohms	50 ohms

PHYSICAL / MECHANICAL

Dimensions	18" x 13.9" x 3.2"	44" x 14.4" x 3.2"	18" x 12.9" x 3.2"	42" x 11.8" x 3.2"
Weight	2 lbs. (0.9 kg)	4 lbs. (1.8 kg)	2 lbs. (0.9 kg)	3 lbs. (1.4 kg)
Cross-sectional area	0.19 sq ft.	0.48 sq ft.	0.18 sq ft.	0.46 sq ft.
Lateral Thrust @ 150 mph	6.23 lbs.	18.41 lbs.	5.85 lbs.	16.72 lbs.
Lateral Thrust Bending Moment @ 150 mph	4.19 lb-ft	29.4 lb-ft.	3.87 lb-ft.	25.4 lb-ft.
Lateral Thrust @ 100 mph with 1/2" of ice	19.44 lbs.	53.62 lbs.	18.23 lbs.	48.49 lbs.

CONSTRUCTION

Materials	Anodized Aircraft quality 6061-T6 aluminum
Attached Cable Lead	Antenna Model: N-type Female Connector on 2 foot (0.6m) lead Antenna with Installation Kit Model: N-type Female Connector on 25 foot lead (8.3m)
Cable	RG213
Mounting Bracket	Clamp bracket for 1/2" to 7/8" diameter yagis. Mounts to masts 1.25" to 2.4" Outside Diameter

ENVIRONMENTAL

Wind Survival	> 150 mph (241 km/hour)
Temperature Range	-40F to +185F (-40C to +85C)

INSTALLATION KIT CONTENTS

- yagi antenna with 25' pigtail weatherproofed and attached to the antenna
- grounding kit
- weatherproofing kit (includes butyl rubber tape, 3/4" electrical tape, 2" electrical tape)
- cable ties (qty. 5)
- RF bulk-head mount surge suppressor, DC BLOCK Lightning Protector
- short 2' N-type Male to TNC Male jumper to go from surge suppressor inside cabinet over to the radio
- loose N-type connector for re-terminating cable if shorter length is desired

* gains are given in dBd relative to the radiating element. This typically equates to a dBi value of -1dB greater than the provided dBd value in real-world link budgets.