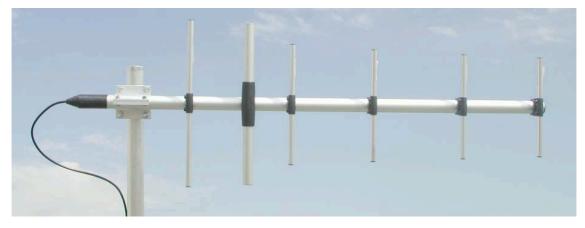
WY380-6N

380-440 MHz Base Station 6 Element Yagi Antenna

DESCRIPTION

Base station antenna conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in stacked or bayed array. **Patent pending applied**.



TECHNICAL DATA

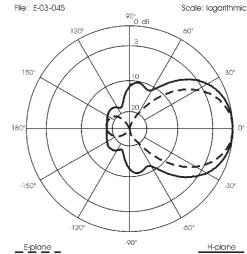
Electrical Data

Туре	6 element Yagi
Frequency range	380 - 440 MHz
Impedance	50 Ω Unbalanced
Polarization	Linear Vertical or Horizontal
Radiation (H-plane)	beamwidth at -3 dB= 70° at 410 MHz
Radiation (E-plane)	beamwidth at -3 dB= 55° at 410 MHz
Max Gain	11 dBi
Front to Back ratio	≥ 17 dB
S.W.R. in bandwidth	≤ 1.5:1
Max Power	150 Watts (CW) at 30°C
Feed system / Position	RG303 PTFE coax with balun / inside boom
Lightning protection	DC-ground
Connector	N-female with rubber protection cap

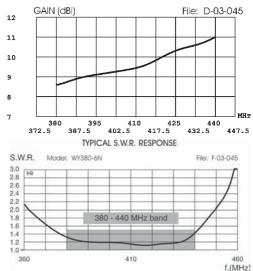
Mechanical Data

Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	100 N at 150 Km/h / 150 Km/h
Wind surface	0.078 m ²
Dimensions (approx.)	1180 x 400 mm
Weigth (approx.)	1540 gr
Turning radius	1050 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm

TYPICAL RADIATION PATTERN at 410 MHz E-03-045 Scale: logarith

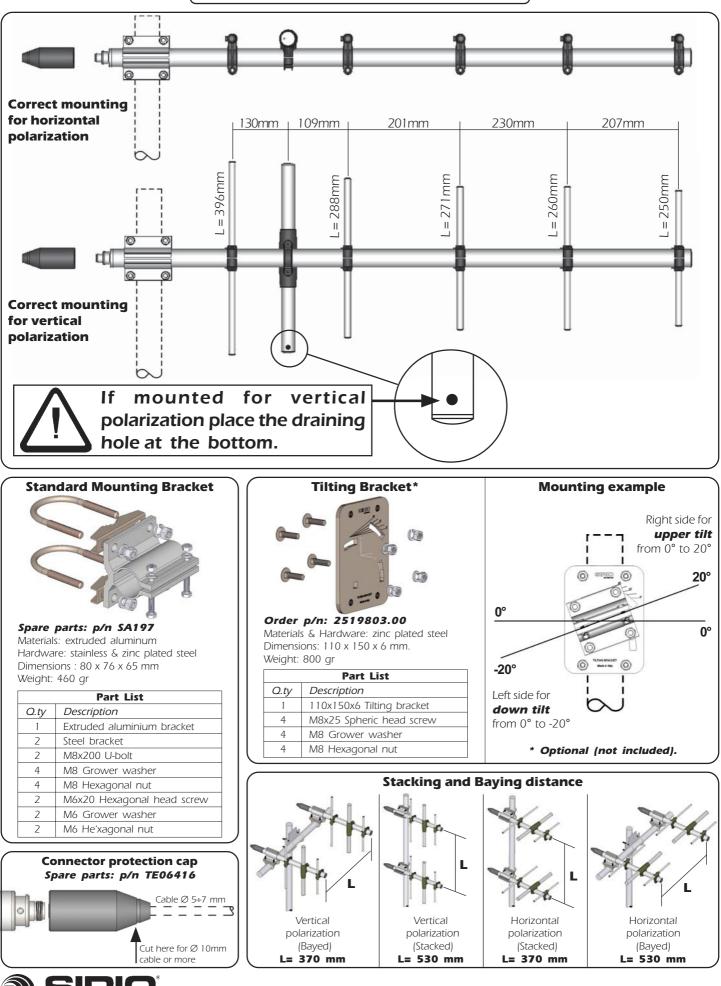


TYPICAL GAIN DIAGRAM vs FREQUENCY





MOUNTING INSTRUCTIONS



antenne HI-QUALITY ANTENNAS MADE IN ITALY

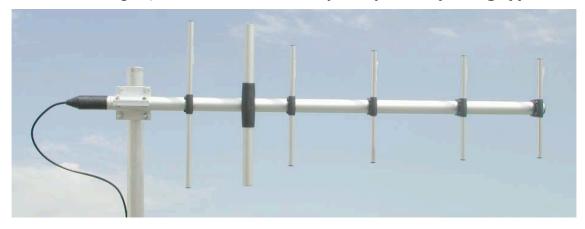
© Copyright **SIRIO antenne** - Technical data are subjected to change - Printed in Italy - Rev. 08/05/2012 - Cod. ID343

WY400-6N

400-470 MHz Base Station 6 Element Yagi Antenna

DESCRIPTION

Base station antenna conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easily access. To increase the antenna gain please install it in stacked or bayed array. **Patent pending applied**.



TECHNICAL DATA

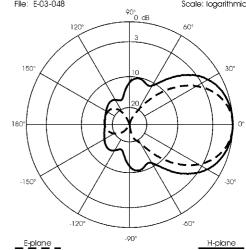
Electrical Data

Туре	6 element Yagi	
Frequency range	400 - 470 MHz	
Impedance	50 Ω Unbalanced	
Polarization	Linear Vertical or Horizontal	
Radiation (H-plane)	beamwidth at -3 dB= 70° at 435 MHz	
Radiation (E-plane)	beamwidth at -3 dB= 55° at 435 MHz	
Max Gain	11 dBi	
Front to Back ratio	≥ 17 dB	
S.W.R. in bandwidth	≤ 1.5:1	
Max Power	150 Watts (CW) at 30°C	
Feed system / Position	RG303 PTFE coax with balun / inside boom	
Lightning protection	DC-ground	
Connector	N-female with rubber protection cap	

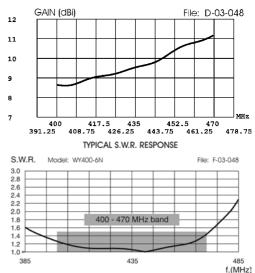
Mechanical Data

Materials	Anodized 6063-T5 Aluminium,
	Thermoplastic UV stabilized, Chromed Brass
Wind load / resistance	100 N at 150 Km/h / 150 Km/h
Wind surface	0.078 m ²
Dimensions (approx.)	1130 x 375 mm
Weigth (approx.)	1490 gr
Turning radius	1000 mm
Operating temperature	-40° C to +60° C
Mounting Mast	Ø 35-52 mm

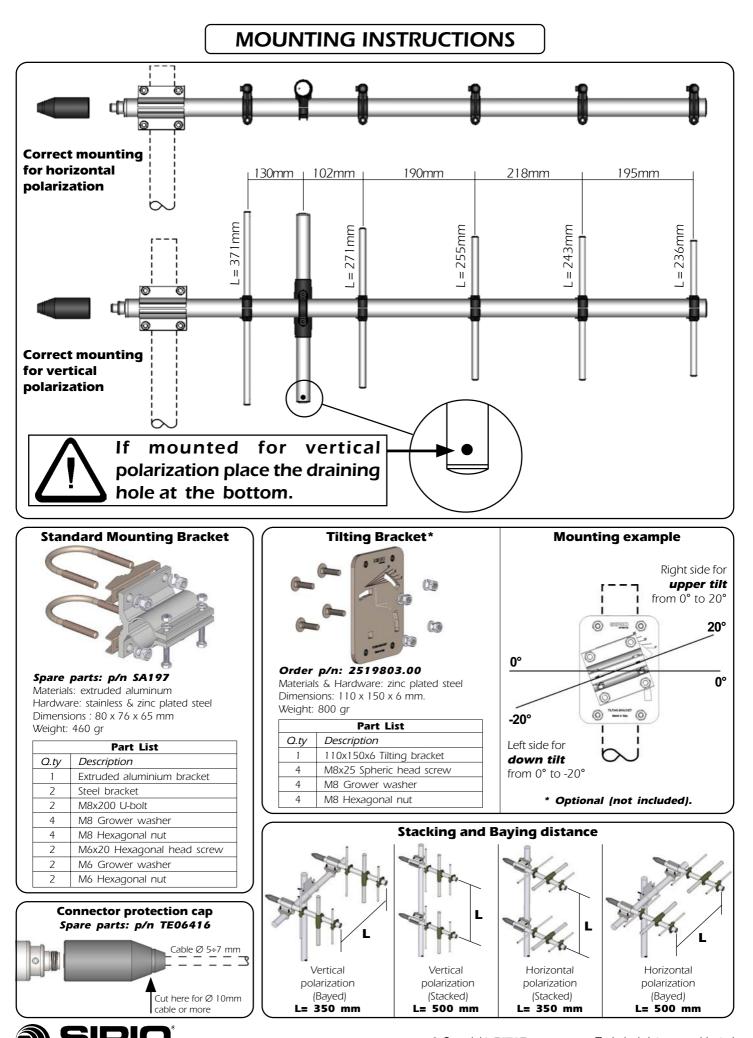
TYPICAL RADIATION PATTERN at 435 MHz File: E-03-048 Scale: logarithmic



TYPICAL GAIN DIAGRAM vs FREQUENCY







antenne HI-QUALITY ANTENNAS MADE IN ITALY

© Copyright SIRIO antenne - Technical data are subjected to change - Printed in Italy - Rev. 08/05/2012 - Cod. ID346