

ACY7

**FIXED
WIRELESS
COMMUNICATION**



Broadband high-gain directional antenna, 380-470 MHz



Extended network range and reliable high performance

The mast-mounted ACY7 directional antenna is designed for enhanced broadband high-gain RF radiation in the frequency range 380-470 MHz, with an antenna gain of 10 dBi. It meets rigorous criteria for high performance and extended operating range in fixed wireless networks where outdoor antennas are required because of insufficient radio propagation.

Long service life is ensured by high-quality materials and a moulded watertight balun.

The Carant ACY series of outdoor mast-mounted antennas has been developed specifically for fixed wireless networks. ACY antennas have demonstrated outstanding performance and reliability worldwide, in commercial networks from leading international suppliers of telecommunications equipment.

Carant antennas support all major standards used in fixed wireless networks.

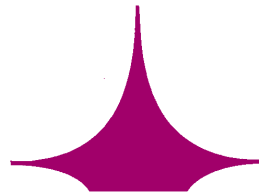
Benefits

- High gain for greater network operating range
- Consistent outstanding performance
- Resistant to extreme climatic conditions
- Long service life
- Robust design

 **Carant**



ACY7

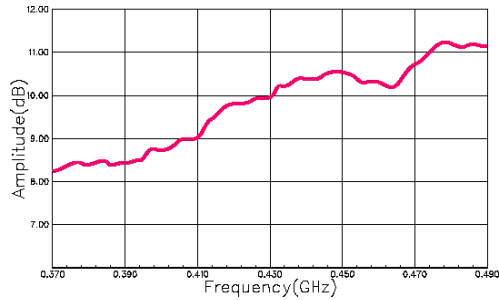


SPECIFICATIONS

Broadband high-gain directional antenna, 380-470 MHz

ELECTRICAL DATA

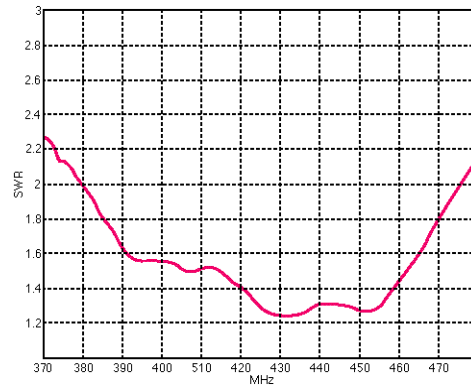
Frequency range	380-470 MHz
Nominal impedance	50
Gain See figure at right	10 dBi @ 430 MHz
VSWR	< 2:1
F/B ratio	>18 dB
Maximum input power	15 W
Polarization	Vertical or horizontal
Connector type	FME-m



Typical antenna gain

MECHANICAL DATA

Support boom material	Aluminium alloy
Element material	Aluminium alloy
Reflector material	Steel net
Antenna dimensions	755x420x410 mm
Antenna weight	1030 g
Mounting bracket weight	355 g
Maximum wind speed	30 m/s
Flat-plate equivalent	0.05 m ²
Ambient temperature	-40°C - +70°C
Ambient humidity	Max. 98%



Typical VSWR diagram

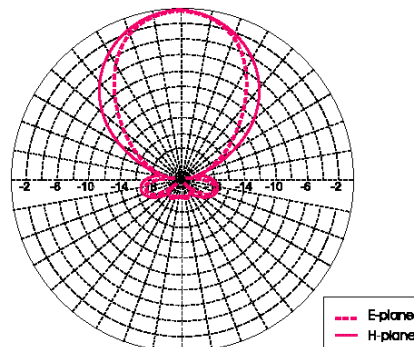
Tested according to standards: IEC68-2-1:Ab/Ad
IEC68-2-2:Bb/Bd
IEC68-2-14:Na
IEC68-2-56:Cb
IEC68-2-11:Ka

SHIPPING DATA

Package weight	1 860 g
Package dimensions	780x345x70 mm

OPTIONAL ACCESSORIES

Matching low-loss cable with FME-connectors



Typical radiation pattern