



# ACY7

**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





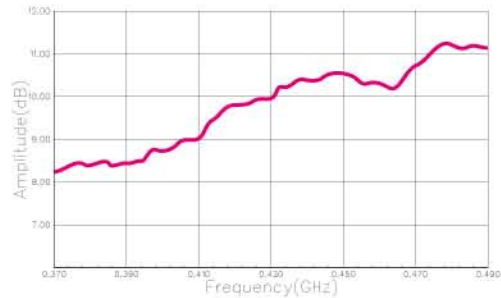
# ACY7



**SPECIFICATIONS**

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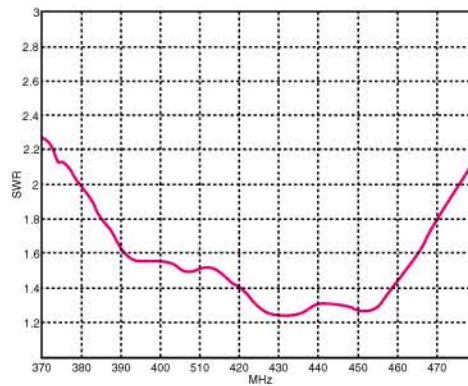
ELECTRICAL DATA	
Frequency range	380-470 MHz
Nominal impedance	50 Ω
Gain	10 dBi @ 430 MHz
See figure at right	
VSWR	< 2:1
F/B ratio	>18 dB
Maximum input power	15 W
Polarization	Vertical or horizontal
Connector type	FME-m



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 <sup>2</sup>
Ambient temperature	-40°C - +70°C
Ambient humidity	Max. 98%

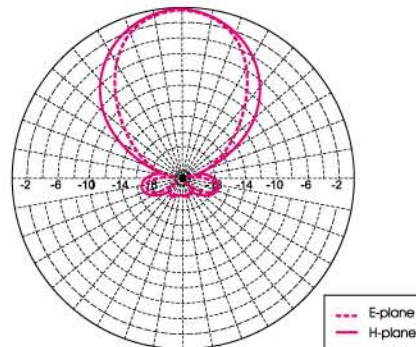
Tested according to standards: IEC68-2-1:Ab/Ad  
IEC68-2-2:Bb/Bd  
IEC68-2-14:Na  
IEC68-2-56:Cb  
IEC68-2-11:Ka



Typical VSWR diagram

SHIPPING DATA	
Package weight	1 860 g
Package dimensions	780x345x70 mm

OPTIONAL ACCESSORIES	
Matching low-loss cable with FME-connectors	



Typical radiation pattern

For more information on how the ACY7 can be customized to your requirements, please contact our Marketing Department.

