

# R&S®HF918 HIGH-GAIN SHF ANTENNA

800 MHz to 18 GHz

For broadband transmission and reception



The R&S®HF918 high-gain SHF antenna provides broadband transmission and reception in the frequency range from 800 MHz to 18 GHz.

Thanks to its outstanding power rating and matching (VSWR), it can also be used in transmission applications.

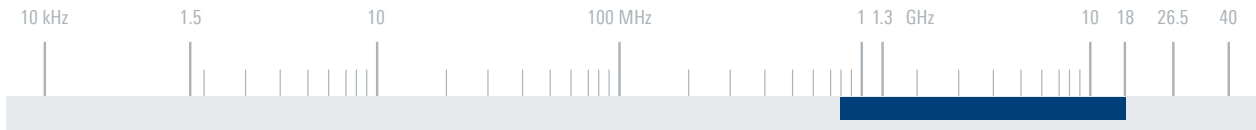
The sturdy design as well as the low weight of this antenna ensure easy handling and make it ideal for use in monitoring applications under severe outdoor conditions.

The high gain up to 18 GHz allows the reception and analysis of weak signals.

## Key facts

- ▶ Wide frequency range
- ▶ High gain, optimum beamwidth for good emitter locating
- ▶ Stable radiation patterns over entire frequency range
- ▶ Very low cross-polarization
- ▶ Compact size, low weight
- ▶ Outstanding power ratings up to 18 GHz





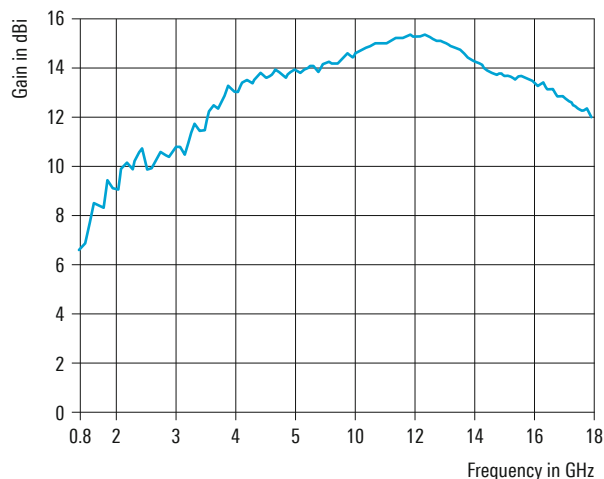
### Specifications

Frequency range		800 MHz to 18 GHz
Polarization		linear
Nominal impedance		50 Ω
VSWR		typ. < 2 (see diagram)
Gain		see diagram
Cross-polarization		< -25 dB; typ. -30 dB
Max. input power (at sea level, +40°C ambient temperature)	800 MHz	300 W CW
	5 GHz	190 W CW
	10 GHz	130 W CW
	18 GHz	100 W CW
RF connector		N female
MTBF		> 100 000 h
Protection class		IP55, in line with EN 60529
Operating temperature range		-30°C to +55°C
Max. wind speed	without ice deposit	275 km/h
Dimensions	Ø × L	approx. 0.41 m × 0.3 m (16 in × 12 in)
Weight		approx. 5.5 kg (12 lb)

### Ordering information

Ordering information	Type	Order No.
High-gain SHF antenna, color: silver gray (RAL 7001)	R&S®HF918	4201.1008.02
<b>Recommended extras</b>		
Wooden tripod	R&S®HZ-1	0837.2310.02
Adapter for R&S®HZ-1	R&S®HL025Z1	4053.4006.03

### Typical gain



### Typical VSWR and limit line

