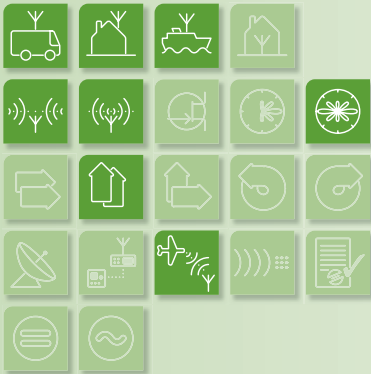


VHF/UHF Antennas

VHF/UHF Coaxial Dipole R&S®HK014



100 MHz to 1300 MHz

80 MHz to 1600 MHz

VHF/UHF omnidirectional antenna for
vertical polarization

Features

- ◆ Extremely broadband
- ◆ High suppression of skin currents
- ◆ Filled-in vertical radiation pattern
- ◆ High protection against lightning strokes in the vicinity
- ◆ Sturdy design
- ◆ Minimal wind load
- ◆ Low weight
- ◆ Can be used on ships

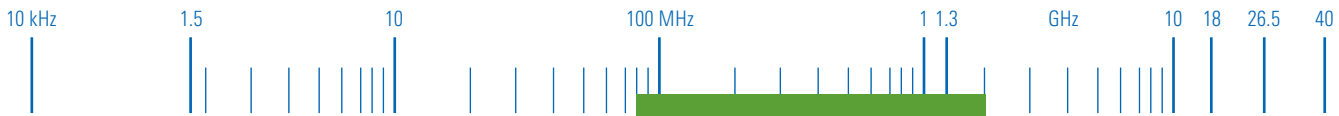
Brief description

The VHF/UHF Coaxial Dipole R&S®HK014 is an omnidirectional antenna for vertically polarized waves.

The antenna features high suppression of skin currents and high protection against lightning strokes in the vicinity.

Due to its sturdy design and low wind load, it is suitable for mobile use, in particular on ships.





Specifications

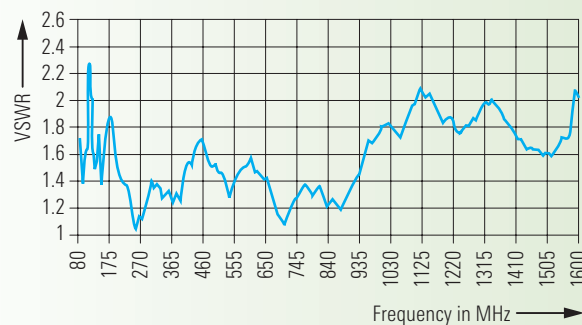
Frequency range	
Model .02	100 MHz to 1.3 GHz
Model .12	80 MHz to 1.6 GHz
Polarization	linear, vertical
Input impedance	50 Ω
VSWR	typ. <2
Permissible input power	
Model .02	
Up to 150 MHz	800 W CW + 100% AM
Up to 400 MHz	430 W CW + 100% AM
Up to 1 GHz	270 W CW + 100% AM
Up to 1.3 GHz	240 W CW + 100% AM
Model .12	20 W CW + 100% AM

Gain	typ. 2 dBi
Horizontal radiation pattern	omnidirectional
Connector	N female
Operating temperature range	-40 °C to +85 °C
Permissible wind speed	160 km/h, without ice deposit
MTBF	>150 000 h
Dimensions (diameter × height)	
Model .02	approx. 310 mm × 1100 mm
Model .12	approx. 310 mm × 1250 mm
Weight	approx. 5 kg

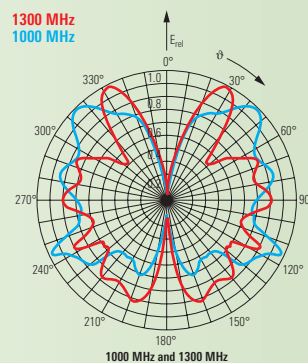
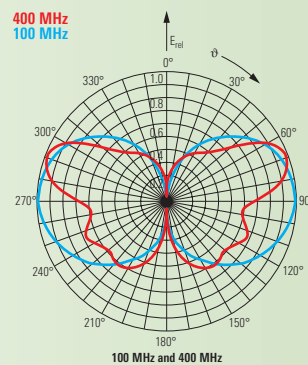
Ordering information

VHF/UHF Coaxial Dipole		
100 MHz to 1300 MHz	R&S®HK014	0644.1514.02
80 MHz to 1600 MHz	R&S®HK014	0644.1514.12

Recommended extras		
Duplexer for the ranges		
100 MHz to 162 MHz/		
225 MHz to 400 MHz	R&S®FT 224	0525.5117.03
Mast, 6 m, pluggable	R&S®KM011	0273.9116.02
Mast Adapter	R&S®KM011Z2	4022.3608.02



Typical VSWR



Typical vertical radiation pattern