

7.9 Helix Antenna for RCoax Cable (2.4 GHz)

RCoax N-Connect Female ANT 792-4DN (2.4 GHz antenna, circular polarization)

Mechanical Properties	
Dimensions (length x diameter)	78.7 x 30 mm
Length of securing thread	31 mm
Outer material	Polycarbonate, silicone-free
Connector	N connector, female

Electrical Properties	
Frequency range	2.4 ~ 2.4835 GHz
Impedance	50 Ω
VSWR	≤ 1.8
Antenna gain at 2.4 GHz	4 dBi
Polarization	Circular, right-handed

Permitted Ambient Conditions	
Degree of protection	IP 65
Operating temperature	- 20° C through + 60° C

Coupling Factor Diagram

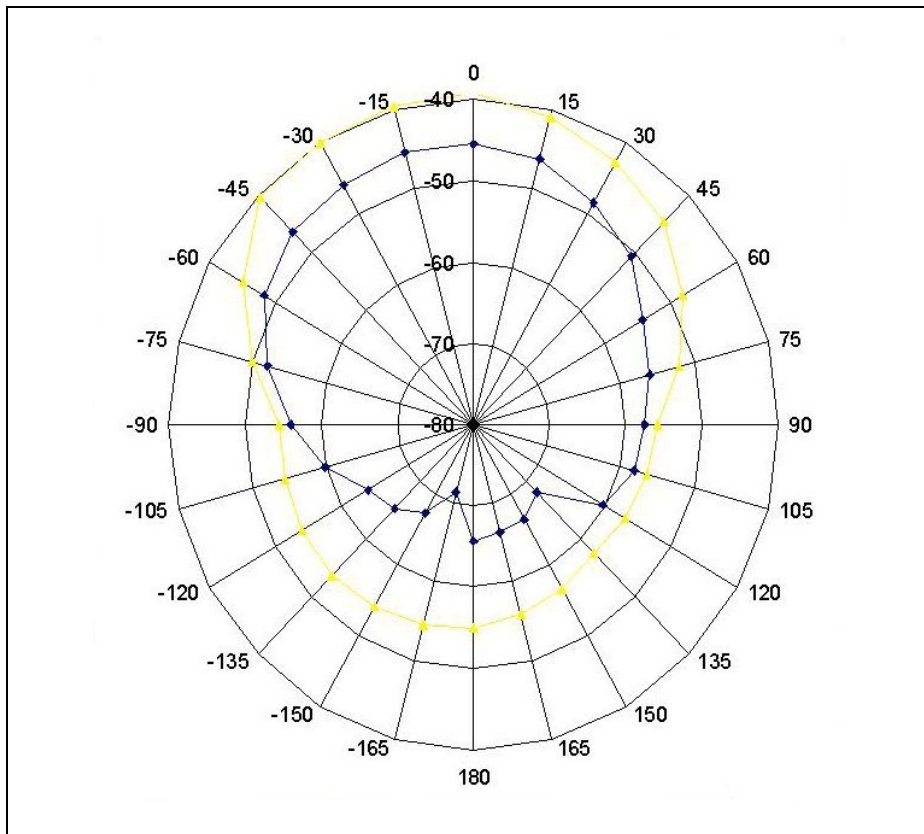


Figure 7-1 Coupling Factor at 2 m Distance
dark blue: Helix antenna -> vertically polarized antenna
yellow: Helix antenna -> helix antenna

Horizontal Antenna Diagram

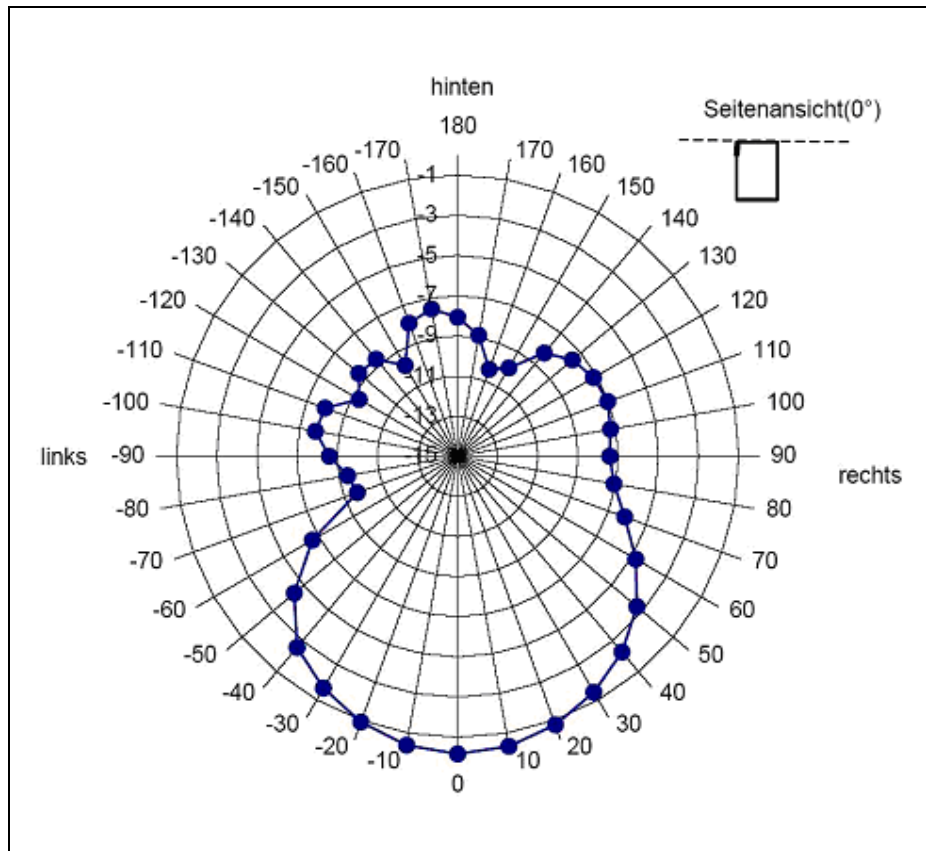


Figure 7-2 Horizontal Radiation Pattern of the Helix Antenna.

Vertical Antenna Diagram

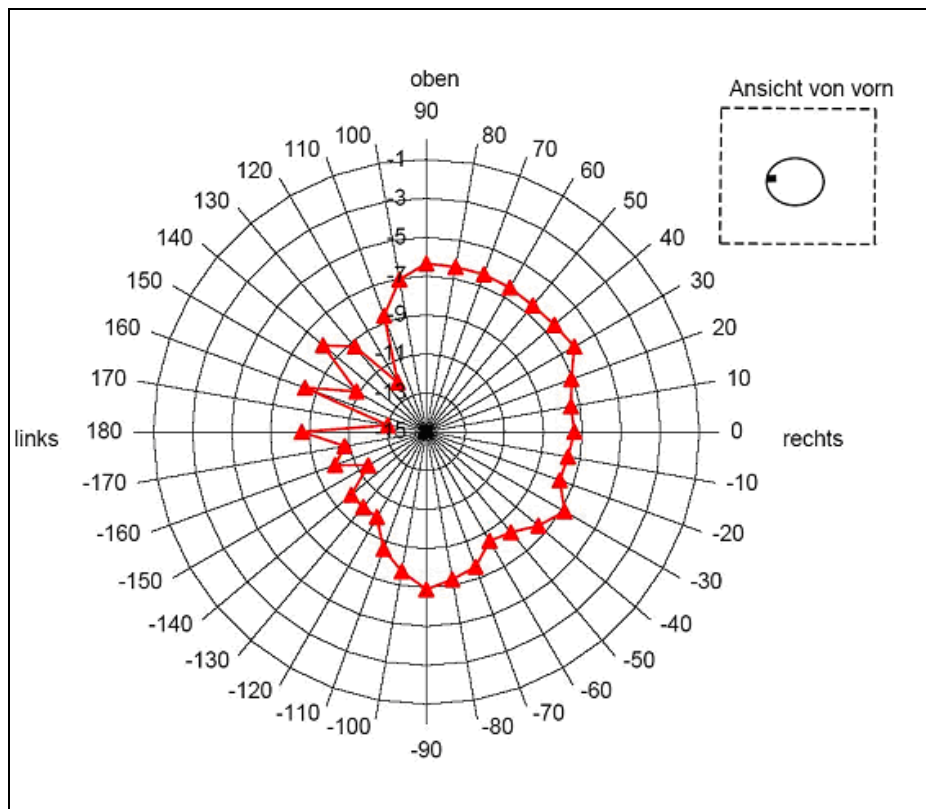


Figure 7-3 Vertical Radiation Pattern of the Helix Antenna.