

## WLAN kit

## Product Description

The transition from the wired local area network (LAN) to wireless LAN (WLAN) is performed by a device which is called Radio Access Point (RAP). Those RAPs support usually either built-in omnidirectional antennas or provide a RF port to connect an external removable point antenna. In both cases the field strength of the RF coverage is more or less equally distributed in all directions.

In many WLAN applications the communication between the client and the RAP via an antenna does not satisfy the need of coverage of a specifically shaped area. Buildings are often rectangular, and it is more efficient to cover those floors using a radiating cable (A radiating cable can be seen as a long antenna and is built like a coax cable but with slots in the outer conductor for distribution of the radio frequency).

**Package content:** 1 pc of 50 m ring of radiating cable, RCF12-50, assembled ready for use with a N connector at one end and a termination cap at the other end,

- 50 pcs of plastic cable ties
- installation instruction

**Optional adapters:** N to SMA: ADAPTER\_N(F)-SMA(M)

N to TNC: ADAPTER\_N(F)-TNC(M)



Package of the WLAN-RCF12KIT

## Features/Benefits

- Smooth and equal coverage on both sides of the radiating cable for WLAN at 2.4 GHz, 5.2 GHz and 5.8 GHz
- Well-defined and controlled area of coverage
- Larger coverage area than using point antennas
- More security by avoiding undesired coverage, e.g. outside the building

## Technical Specifications

Product Type	WLAN Kit
Application	Indoor
Frequency Range, MHz	800-6000
Connectors	N, other optional
Input Connector Type	N male
Impedance, Ohm	50
Coupling Value, dB	2.4 GHz - 70/82 @50%/95% reception; 5.2 GHz - 75/87 @50%/95% reception; 5.8 GHz - 75/87 @50%/95% reception
Radiating Element Material	50 m radiating cable RCF12-50JFN
Weight, kg (lb)	13 (28.7)
Environmental Class	IP 65

## Notes

## Other Documentation