



## Ha-VIS LOCFIELD® Travelling wave RFID Antenna

### Features

- Tool identification in machines
- Door and window pass-throughs
- Wireless sensor networks
- Smart shelf
- Smart work bench
- Read range from a few cm up to 2 m (strongly depending on reader, configured power and tags)

### General description

The Ha-VIS LOCFIELD® is a completely new concept. Instead of installing patch antennas, the coax antenna cable itself becomes the antenna. The read range can be varied from a few centimeters to about two metres just by changing the power of the RFID reader. The LOCFIELD® antenna can easily be installed in any shape and thus meet the customer's requirements in an extremely flexible way.

#### Identification

#### Part number

#### Ha-VIS LOCFIELD®

2 m (active length), total length 2.5 m diameter 3 mm, SMA (m), EU	20 93 610 1100 10
2 m (active length), total length 2.5 m diameter 3 mm, SMA (m), FCC	20 93 610 1200 10
2 m (active length), total length 3 m low loss coax cable diameter 5 mm, SMA (m), EU	20 93 610 2100 00
1 m (active length), total length 1.5 m diameter 3 mm, SMA (m), EU	20 93 610 1100 20
0.3 m (active length), total length 0.6 m diameter 3 mm, SMA (m), EU	20 93 610 1100 30
2 m (active length), total length 3 m low loss coax cable diameter 5 mm, SMA (m), FCC	20 93 610 2200 10
1 m (active length), total length 1.5 m diameter 3 mm, SMA (m), FCC	20 93 610 1200 20
0.3 m (active length), total length 0.6 m diameter 3 mm, SMA (m), FCC	20 93 610 1200 30

All data represent the current state of development at the time of print and are therefore non-binding.

HARTING reserves the right to modify designs without prior notice.

## Technical characteristics

### Electric properties

Frequency range	EU: 865 ... 868 MHz; FCC: 902 ... 928 MHz
Impedance	50 Ohm
VSWR	< 1.8:1
Polarisation	linear (tags are read in any orientation)
Gain	approx. -7 dBi
Opening angle / read angle	360°
Max. power	2 W (applied to antenna)
Connection	SMA male TNC-rev (on request)

### Mechanical properties

Degree of protection	IP65
Installation	can be mounted directly on any non-conducting surface on conducting surfaces a distance of at least 2 cm is recommended
Operating temperature range	-20 °C ... +65 °C
Storage temperature range	-40 °C ... +85 °C