



# HF E-Sign Antenna

Due to its design, the HF E-Sign antenna is particularly suitable for applications with limited space. It is designed as a frame antenna with metal tuning and can be used for a wide range of applications in industrial and office applications. (Available in protection class IP65 and IP 30) In order to offer the optimal solution for every application, the HF E-Sign antenna is available with different antenna plugs and cable lengths. (Not listed sizes on request)

## Technology

RFID Antennas Frequency: 13.56 MHz

## Features

- » Convenient plug-in connections for immediate use (push-pull system)
- » Robust connectors for secure connections
- » Different types and cable lengths available
- » Typical reading range < 100 mm (depending on transponder type)

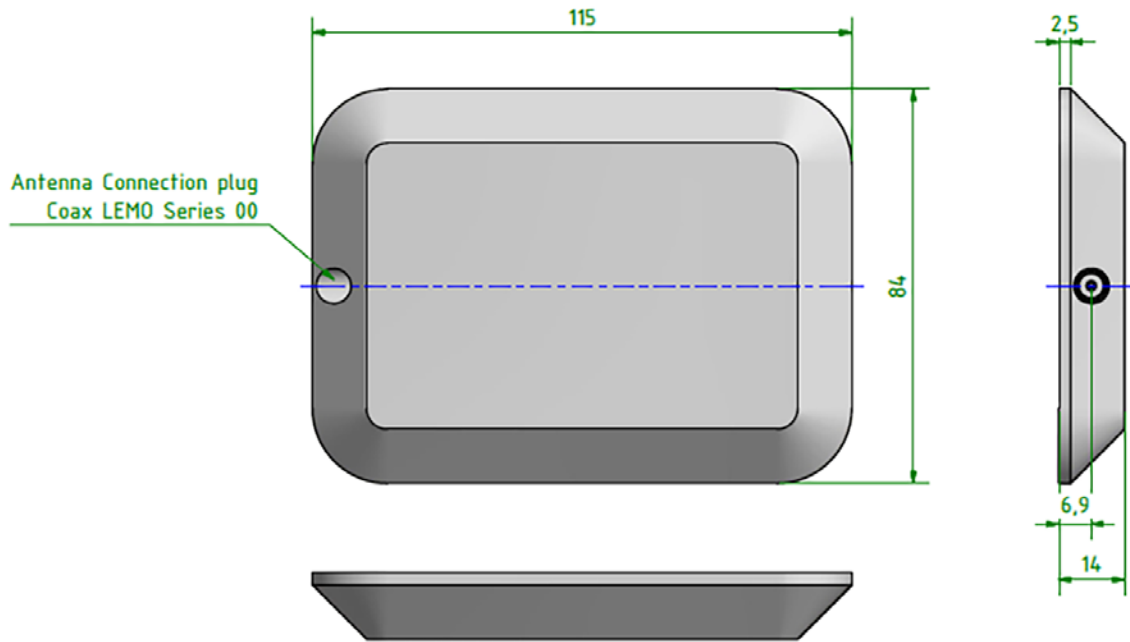
## Cable type

- » RG 174/U black, 50 Ω, temperature range from -35 / +80°C

## Connection options

- » LEMO or SMA standard connector
- Customized connections and cable lengths possible

**Compatible with HERMOS RFID readers (base HF)**



Part number	Description		
	Housing	Plug type	Length
HRF.A.HFC.ES.SS.XX	E-Sign output lateral	SMA	xx = antenna cable in dm (10 = 1.0 m) Available lengths: 1.0 1.8 2.0 3.0 3.6 m
HRF.A.HFC.ES.SS.KK.VG	E-Sign output lateral, IP65	LEMO	xx = antenna cable in dm (10 = 1.0 m) Available lengths: 1.0 1.8 2.0 3.0 3.6 m
HRF.A.HFC.ES.LS.00	E-Sign output lateral	LEMO	-
HRF.A.HFC.EK.LS.00	E-Sign plastic floor, output on the side	LEMO	-
HRF.A.HFC.EK.LU.00	E-Sign output bottom, plastic bottom	LEMO	-
HRF.A.HFC.ES.LU.00	E-Sign output bottom	LEMO	-
HRF.A.HFC.ESO.LS.00	Without housing	LEMO	-

(Further variants and customer-specific configurations available on request)

## Technical data

**Design:** E-Sign  
**Dimensions:** 115 x 84 x 14 mm  
**Antenna connector:** SMA/LEMO  
**Diameter antenna cable:** 3 mm  
**Antenna material:** POM, white  
**Frequency:** 13.56MHz, ISO15693  
**Cable sheath:** PVC

**Cable length:**  
**Connector type:**  
**Protection class:**  
**Operating temperature:**  
**Storage temperature:**  
**Permissible humidity:**  
**Conformity:**

**Variant dependent**  
 depending on variant  
**IP 30 (IP65 on request)**  
**0 °C to 50 °C**  
**-25 °C to 70 °C**  
**at 50°C 25% to 80%**  
**RoHS, REACH**

