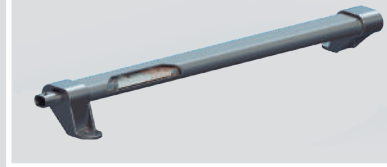


# KGEA-AF/AFC

## Long Range Flexible Antenna LF for smart entry system

EMITTER ANTENNAS / LONG RANGE



### FEATURES

- › Length from 300mm until 500mm
- › Higher impact absorption and mechanical reduction preventive.
- › IP protection 68 (maximum degree against dust and water).
- › High stability in temperature (-40°C up to +85°C).
- › High accuracy inductance and/or resonance frequency
- › Custom L-C value (F-Res: KGEA-AFC) under demand or only L (KGEA-AF)
- › Significant saving in final PKE application: harness, connectors and power switching devices reduced by 4 or 5.
- › Saving in power consumption

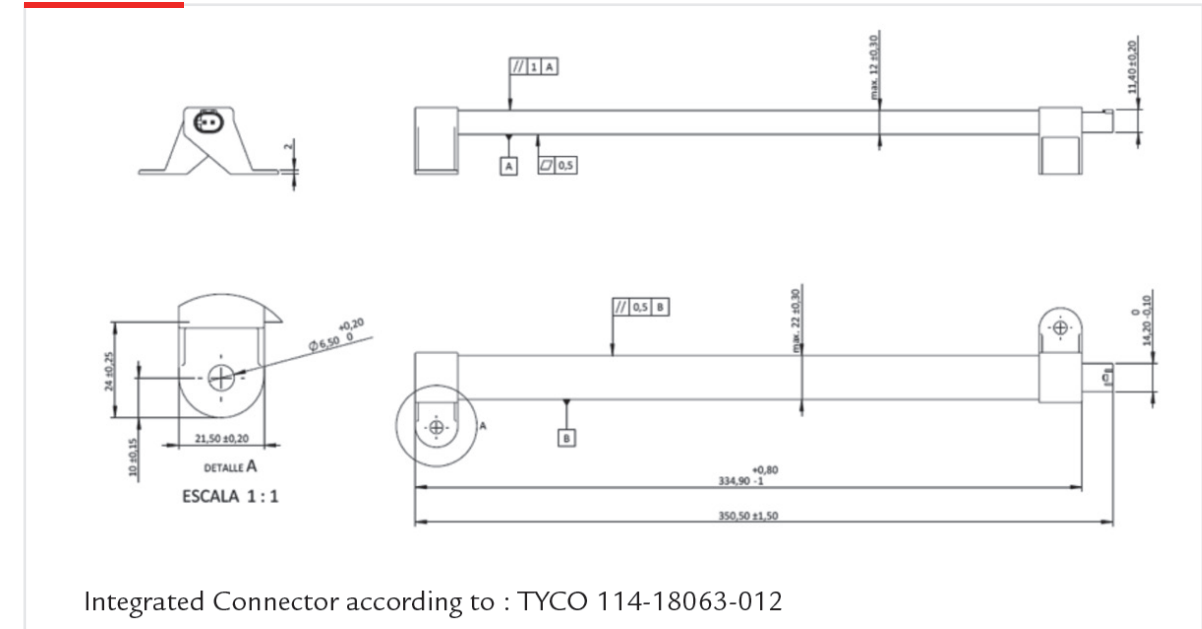
## 01 ELECTRICAL PARAMETERS

### TECHNICAL AND ECONOMIC ADVANTAGES

- › Longer antenna (length from 300mm until 500mm).
- › Completely flexible antenna.
- › Deformation in the middle of the antenna.
- › Higher impact absorption and mechanical reduction preventive.
- › IP protection 67.
- › High stability in temperature (-40°C up to +85°C).
- › Resonant frequency adjusting below +/- 2kHz.
- › Custom L-C value (F-Res: KGEA-AF) under demand or only L (KGEA-AFC)
- › Wiring and connectors is reduced by 1/3, 1/4 or 1/5 respectively.
- › OEM assembly time is reduced by 1/3, 1/4 or 1/5 respectively.
- › Total energy consumption and battery current leaking, a very important parameter specially in electric vehicles is reduced proportionally.
- › A longer antenna need lower currents to generate equal or more intense magnetic fields thus reducing the again the energy needed and the cross section of the wire to the antennas.

## 02 SPECIFICATIONS

### DIMENSIONS (mm)



### ELECTRICAL SPECIFICATIONS

PART NUMBER	Operating Frequency	L(mH)	Cres (nF)	Q	SRF (MHz)
<b>KGEA-AF-B-0104J</b>	@125Khz. (Only L)	0.104		>100	>1
<b>KGEA-AFC-A-0161J</b>	@21.8Khz. (L+C in series)	0.161	330nF	>60	>1
<b>KGEA-AFC-B-0240J</b>	@125Khz. (L+C in series)	0.240	6.8	>100	>1

The specification chart is a reference guide for the most common required values at working frequencies of 125 kHz, 20 kHz and 134.2 kHz. Any other inductance value at LF or tighter tolerances can be provided. Please contact our sales department for any inquiry.