



M-Cable Tag

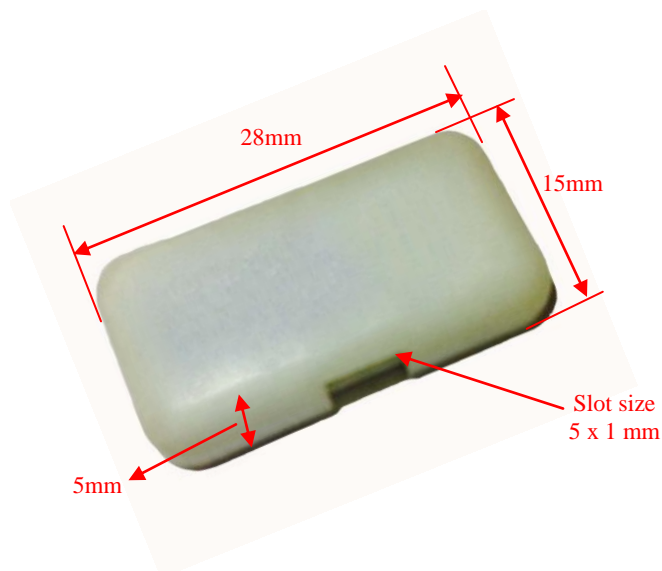
FEATURES

- M-Cable tag is a **high temperature** tag & is especially designed for applications and processes involving high temperatures.
- Operates effectively with a good read range, especially when attached to metal.
- Rugged construction for high durability in harsh environments.
- Can be attached with a Cable tie through a slot provided.
- Flexible Read/Write Range (reader dependant).

APPLICATIONS

- Used in high temperature applications like boilers and engines identification
- Used in asset tracking applications such as Equipment, Parts, Containers, railway and warehousing solutions.
- Factory automation, Automotive & Security purpose.

Chip Type:	Alien Higgs 3 EPC Class 1 Gen 2	
	EPC 96 bit extendable up to 480 bits	
	User Memory 512 bit	
	Data retention of 50 years	
	Write endurance 100,000 cycles	
Mechanical:	Dimension	28 x 15 x 5mm
	Slot Size	5 x 1 mm
	Material	High Temp. plastic
	Colour	Off White
	Weight	3.1 g
Electrical:	Operating Frequency	865-868MHz
	Operating mode	Passive (battery-less transponder)
Ingress Protection:	IP68	
Thermal:	Storage Temp.	-40°C to +120°C
	Operating Temp.	-40°C to +85°C
Part Number:	390V1	

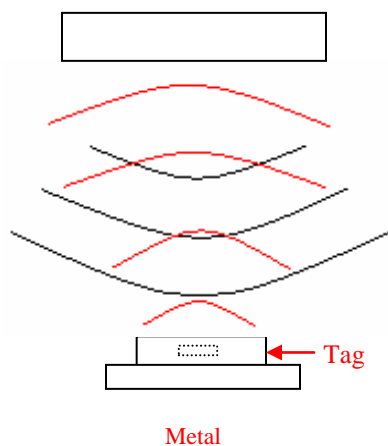


Note: Tolerance applicable are **Length** : $\pm 1\text{mm}$, **Width**: $\pm 0.5\text{mm}$ and **Thickness**: $\pm 0.3\text{mm}$

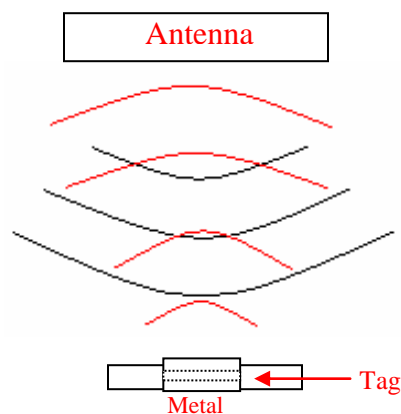
Tag Placement

- ✚ M-Cable tag is polarized perpendicular to TTF logo.
- ✚ Place the tag in such a way that most of its bottom area comes in direct contact with metal.
- ✚ Ensure that there is no hindrance between the tag and the reader antenna.
- ✚ Reader antenna should be parallel to the tag length as shown in below figure:

Correct way

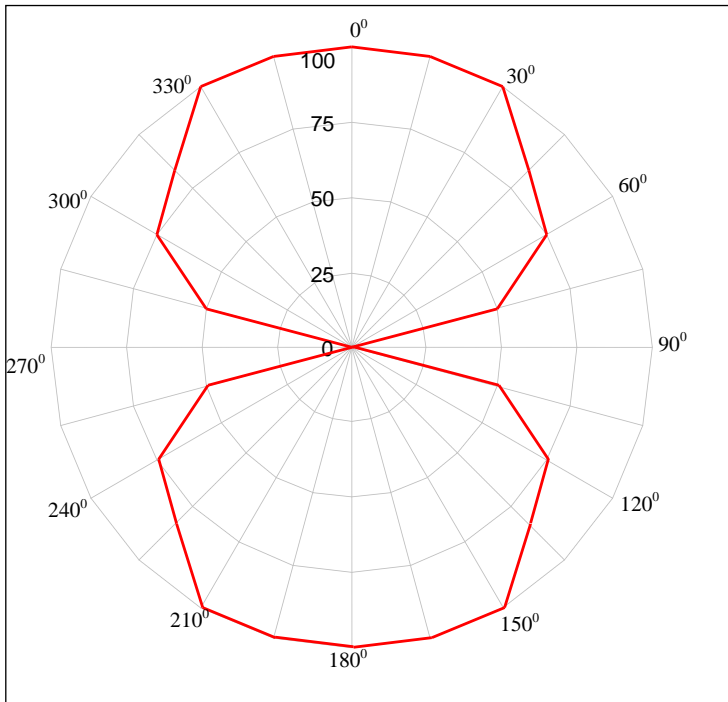


Wrong way

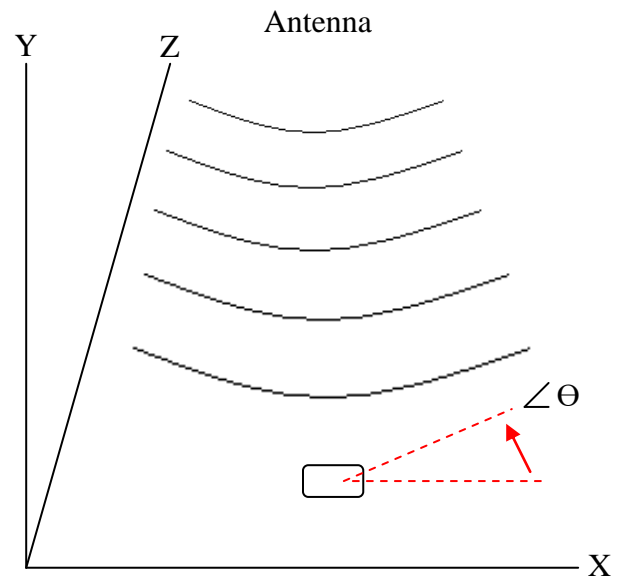


- ✚ Tag can be attached either through cable tie or an Adhesive tape.

M-Cable Tag Angular Sensitivity (Relative Read Range vs. Orientation)



Read range (in percent) at various angle.



Tag is rotated in the X-Y plane about the z axis