

360° FLEXIBLE UHF METAL TAG

IDENTIFICATION AND TRACEABILITY IN EXTREME CONDITIONS



BENEFITS

- First and unique tag 360° on the market
- Adaptation to all cylindrical surfaces
- Reading reliability: significantly reduce errors
- High resistance in harsh environments
- Compatible with ATA SPEC 2000 standard



The IronTag® 360 is a flexible tag UHF EPC1 Gen2 (ISO18000-63) perfectly suited for the identification of cables and cylinders even in the most demanding industries. Designed to offer the best performances on any surfaces including metal, the IronTag® 360 ensures both reading reliability, whatever the position of the tag, and outstanding durability in all your identification and tracking applications.

FLEXIBLE AND MULTIDIRECTIONNAL

The IronTag® 360 is a flexible spiral shaped tag, well suited for all rugged and flexible tubular objects (cables, connectors, etc.). Its specific and unique design ensures optimal identification, whatever the position of the asset and the reader.

HIGH RESISTANCE IN HARSH ENVIRONMENTS

The IronTag® 360 improves tracking and automated management of manufacturing processes in harsh environments.

Compliant with aeronautical standard DO160, and SAE AS5678, IronTag® Flex is qualified and certified to withstand the most extreme conditions: Water / dust tight (IP68), salinity, thermal shock, high pressure, corrosive liquids (detergents, alcohols, petroleum oils, gas, kerosene, skydrol, etc.), and flames.

BEST PERFORMANCE-TO-SIZE RATIO

The IronTag® 360 UHF series provides an unmatched performance-to-size ratio. Both the outstanding reading performances (up to 3 m / 9.84 ft*) and the slimline design of tags make possible a lot of identification, tracking and maintenance applications in demanding industries.

TAGS FOR DEMANDING APPLICATIONS

The IronTag® 360, approved by Airbus Helicopters in the «Helicopter of the Future» project, is designed to satisfy the most demanding industries.

This new generation of flexible tags complies with the international RFID standards EPC Class 1 Gen 2 / ISO18000-63 and the aeronautical standard ATA SPEC 2000.

These UHF identifiers are the perfect answer to the needs of non-contact identification in the most extreme industrial sectors and to traceability/maintenance applications of engine parts, metal components, cables, and other cylindrical supports.



Aerospace



Naval



Defense

SPECIFICATIONS

Operating frequency	860-960 MHz (Broadband)
Standards	EPC Class 1 GEN 2 / ISO18000-63 SAE AS5678 / DO-160 / Complies with ATA SPEC 2000 Chapter 9.5 and Annex 11 (TRS/DRT)
Modes	Read / Write
Chip	Impinj® Monza® X-2K Dura
EPC/User memory	2K : EPC 128 bits / User 2176 bits / TID 32 bits 8K: EPC 128 bits / User 8192 bits / TID 32 bits
Data storage	50 years at + 25°C (82°F)
Reading distances*	Up to 3 meters (9.84 ft) (on all surfaces including metal)
Material	Silicone PMQ1650N9005
Dimensions (h x w x d)	Length before installation 181 x 20 x 9,3 mm (7.12" x 0.78" x 0.36") Flexible for variable cylindrical surfaces up to 15 to 40 mm (0.59"x 1.57")
Weight	15 g
Operating temperature	- 55°C to + 110°C / - 67°F to + 230°F
Storage temperature	- 60°C to + 150°C / - 76°F to + 302°F
Resistance	IP68 Harsh environments (temperatures, pressure, humidity...) & industrial applications High temperature cycles - 55°C (- 67°F) according to DO-160 cycle, thermal variations: 5°C (41°F)/mn + 110°C (230°F) according to DO-160 cycle, thermal variations: 5°C (41°F)/mn Altitude/pressure variations: 0 ft to 25000 ft / 2.6 hPa/s Excess pressure 15000 ft to 25000 ft in 15 sec Vibrations: all categories according to DO-160 Hydrophobic material (humidity, ice, mushrooms, mold, sand, dust, solar radiation resistant) Salt fog: 5 wt% NaCl, 35°C, RH 100%, 96h Liquid resistant (DO-160 cat. F): water (F34), hydraulic fluid (H-537, skydrol), oil (O-155) Frame resistant (UL94-V0 - self-extinguishing) ESD resistant Explosive atmosphere (ATEX intrinsic security - DO-160 Cat. A)
Mounting	With cable ties / collars x 2
Certifications	 CE & FCC
Part number	2K.....TMSW49B3361_S

DISCOVER OUR IRONTAG® RANGE



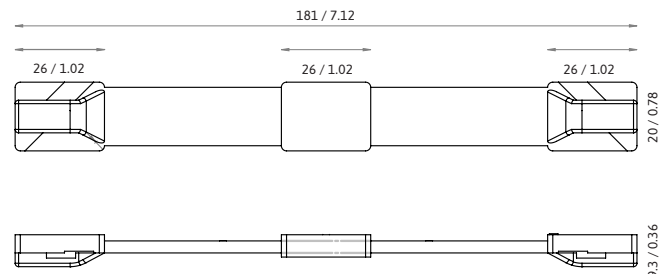
IronTag®
Aero



IronTag®
Flex



IronTag®
Xtrem



Mechanical plan (mm / inch)

*Caution: information about the distance of reading: measured from the center of the antenna, depending on the type of identifier, operating environment of the reader, power supply voltage. External disturbances can cause the reading distances to decrease. The performance is reduced on the atherm ic windshield.

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