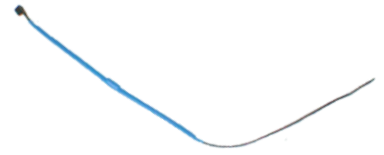




FT-1007

Tie-Wrap Tag



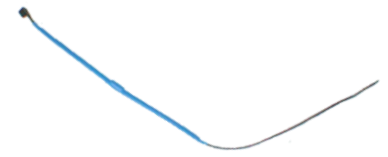
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FT-1007

Tie-Wrap Tag



1 PRODUCT DESCRIPTION

The patented (US Patent # 7,928,922) **TROI FT-1007 Tie-Wrap** RFID tag provides automatic identification and tracking capabilities never-before available in such a unique package designed for rugged or hazardous use-areas.

The plastic-covered tag is molded onto a tie-wrap and is designed to be mounted to any metallic surface by securing the tie-wrap around any pipe or round metal object. It can withstand unprecedented high temperature (consistent temperatures of 150 degrees Centigrade), high pressure and severe environmental conditions.

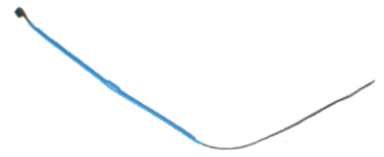
1.1 SPECIFICATIONS

Device type	Passive RFID tag
Air interface protocol	UHF: EPCGlobal Class1Gen2 / ISO/IEC 18000-6C
Operational frequency	Standard: UHF (865-869 MHz (EU), 902-928 MHz (US))
IC options - UHF	Standard: Alien Higgs 3 (others on request) Optional: EM, Fujitsu, Impinj, NXP (others on request)
EPC memory - UHF	Standard: 128 bit Optional: Up to 240 bit
EPC memory content	Unique 96-bit number encoded
Extended memory - UHF	Standard: 512 bit
TID - UHF	Factory-programmed, non-changeable, unique 64-bit ID.
Read range - UHF	Real-world: 1 – 2 meters
Size	Standard tie length: 11 inches Tie material can be nylon or metal; contact us for additional lengths
Tag material	Polyolefin thermoplastic
Tensile strength	2500 psi minimum
Applicable surfaces	Any material
Product RoHS compliant?	Yes
Standards compliancy	ATEX-compliant
US Patent Number	7,928,922

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FT-1007 Tie-Wrap Tag

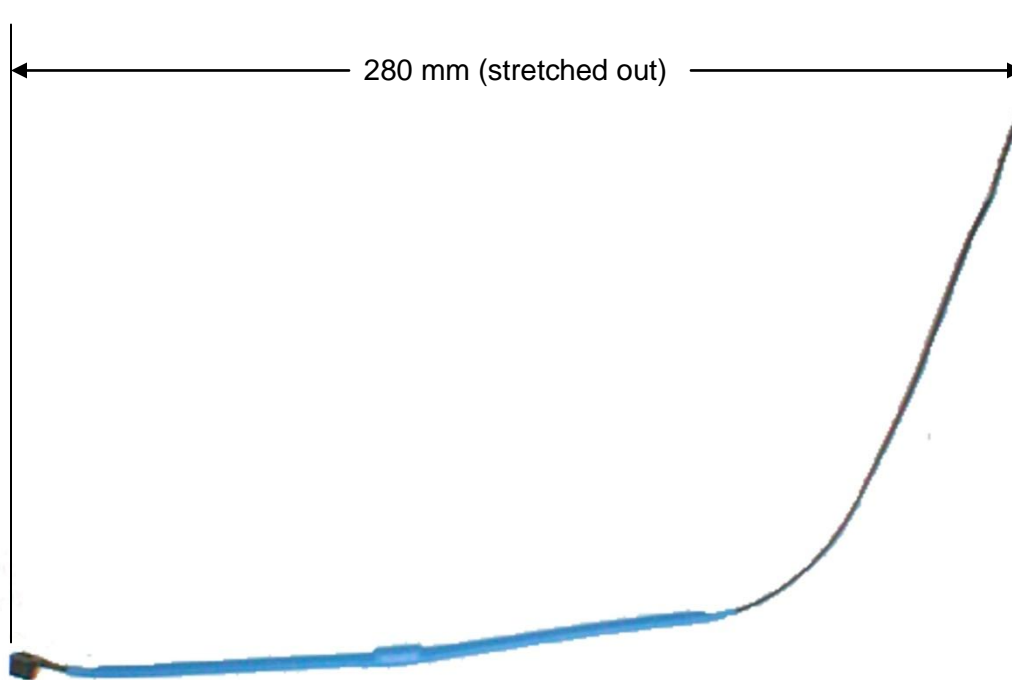


1.2 DIMENSIONS

Standard Tie Length = 280 mm (11 inches)

Other lengths and tie materials available – contact us.

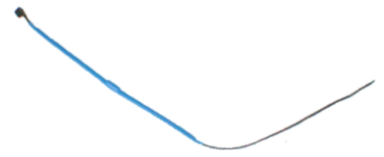
SIDE VIEW



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FT-1007 Tie-Wrap Tag



1.3 READ RANGE

	UHF max read-range on metal with 4W EIRP
FT-1007 (915 MHz)	660.4 cm / 260 inches (6.63 m / 21.75 feet)

The read range listed above was obtained from a lab test environment. Actual test results may be different. Testing in actual use environments is strongly recommended.

1.4 ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-50°C to +100°C*
Temperature Cycling Test	150 deg C, continuous for 30-days
IP classification	IP69K
Weather resistance	Excellent, including UV-resistance and sea water immersion
Chemical resistance	No physical or performance changes in: <ul style="list-style-type: none"> - Salt water - NaOH (depending on concentration) - Sulfuric acid (depending on concentration) - Motor oil (tested in 168 hour exposure) Generally good against: <ul style="list-style-type: none"> - Most solvents - Most acids and bases

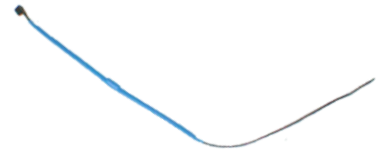
* **NOTE:** The RFID tag will not be functional if the tag is left at the maximum indicated temperatures such that the internal soak temperature exceeds +80 deg C. The RFID tag itself will (resume) function between -50 deg C and +80 deg C.

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FT-1007

Tie-Wrap Tag



1.5 SUPPORTED SERVICES

- Tag pre-encoding

For further details, please contact **TROI LLC**.

1.6 POSSIBLE APPLICATIONS

Any surface

Returnable containers, canisters, pallets, pipes, high value items, aerospace applications, military applications, etc.

2 INSTALLATION INSTRUCTIONS

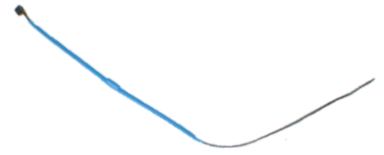
Wrap the tie-wrap around the surface and firmly pull the tie-wrap to secure the tag – done!





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Tie-Wrap Tag



3 CONTACTING TROI LLC

For additional information and technical support contact:

TROI LLC

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ADVISORY

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