



RFID SnapAround Cable Markers

Waterproof • Chemical & Solvent Resistant • High Visibility • RFID Product • Versatile Attachment • Custom Printed & Programmed • Durable Product ID • 360 Degree Read Profile

Technical Data Sheet

Part: #WF- SM- SA

General Description

RFID SnapAround™ Cable Markers

A completely unique design, the SmartMark™ Snap-Around™ RFID tag (WFS- SM- SA) combines the benefits of RFID with the ease of visually identifying fiber optic copper wires and other circular surfaces. Use these simple-to-install RFID tags to mark cable runs, carts, pipelines and wires. They quickly and easily snap around any circular surface.

Easy Installation

Brightly colored SnapAround cable markers are made of coiled PVC plastic and install in seconds. Just unroll and “snap” around the existing cable, optical fiber, pipe, duct or tube. The cable marker furls up and holds its tight coil around the cable for the life of the marker. Available in standard messages or custom graphics/ messages.

Cable Diameter	Marker Size
0.25" to 1.0"	4"x4", 4"x6", 4"x7"
1" to 2.5"	7"x8"

- Part No. WFS- SM- SA
- Easy to install RFID tag
- Mount around metal pipes, wires, cables
- Size can be adjusted to allow other RFID inlays and frequencies

Applications

Utility Labeling, Safety & Compliance, Product Marking, Asset Marking & Tracking, Outdoor Use, Overhead & Above Ground Marking

Material Description

Custom colors and lengths are available upon request.

RFID Inlay and Rigid PVC

Standard Sizes:	Please See Above
Expected Outdoor Durability:	5-7 years*
Available Colors:	Orange, Red, Yellow, Black, Green, Blue, and White
Ink Colors:	Standard is UV- stable Black or White
Water Resistance:	Excellent
Solvents Resistance:	Very Good
UV Resistance:	Very Good
Abrasion Resistance:	Very Good
Flammability:	Self- Extinguishing



Test*	Temperatures and Duration	Results
Maximum Temperature	Long- term at 10 hr: 150°F (65°C)	No effect on tag. Tag remained the same in appearance and RFID performance/function. There was no sign of peeling, tearing or destruction. The tag read normal after the tests. *Test is not limiting.
	Standard at 5 min: 170°F (76°C)	
	Short- term at 90 sec: 180°F (82°C)	
Minimum Temperature	-40°F (-40°C)	
Temperature Cycling	The tag was cycled to 400°F at equilibrium for five times. Between each cycle, it was air cooled to room temperature and read with an RFID reader.	

RFID Performance

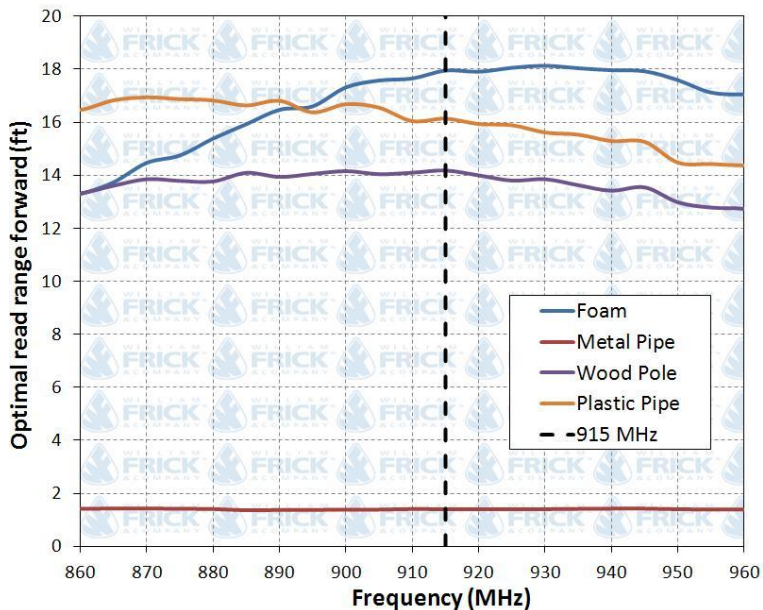
RFID Protocol:	UHF Class 1 Generation 2
Chip Manufacturer:	Impinj (96 Bit) or Philips (512 Bit)
Read Range:	Up to 10 feet

Tested Polarization:

Tag performance was experimentally measured in an anechoic chamber and a known set of experimental variables. The antenna used for measurements was linearly polarized and of monostatic configuration. The direction of tested polarization is as follows.



Optimal Read Range* on Different Material Surfaces:

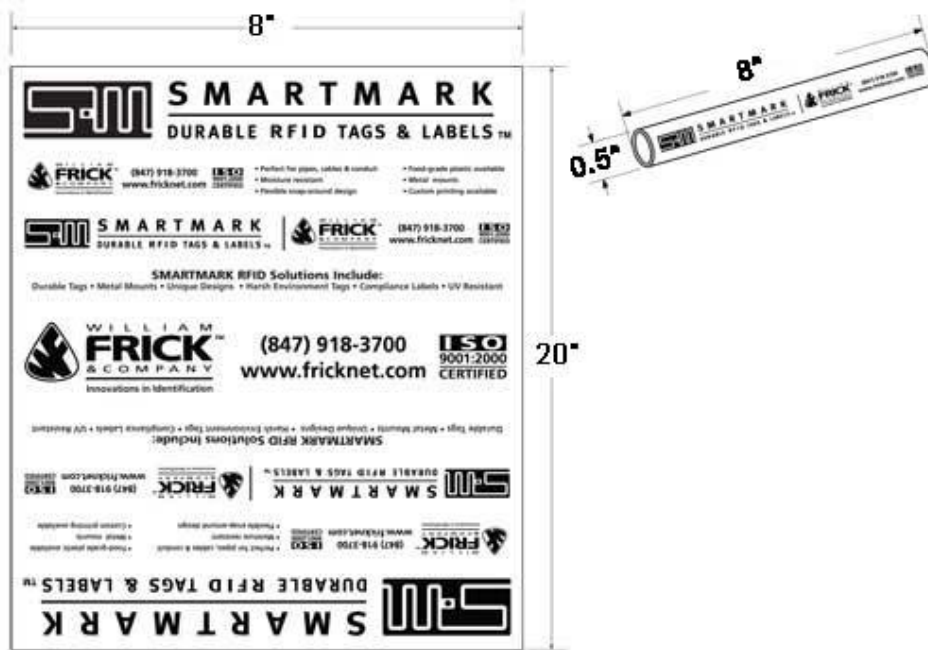


*Tag performance was measured on a foam pipe, thermoplastic pipe, dry wood pole, and a steel pipe. Actual read ranges may differ depending on conditions such as environment, tag placements, hardware, etc.

Shelf life

Stored at 70F / 50% Relative Humidity

Completely stable at room temperature



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED

TOLERANCES

3 PLACE DECIMAL + OR-.005"

2 PLACE DECIMAL + OR-.02"

1 PLACE DECIMAL + OR-.1"

MAX SURFACE ROUGHNESS

ALL MACHINED SURFACES

EXCEPT AS NOTIFIED

BREAK SHARP EDGES AND CORNERS

.010" MAX

Contact No.

William Frick & Co.

www.fricknet.com

DWG.

Engr.

Chk.

Aprvd.

RFID SnapAround Cable Markers

Size.

DWG No.

WF- SM- SA

Rev.

Test product for system compatibility as individual application conditions can impact results. William Frick Co. does not assume any responsibility or liability for any advice furnished by it, or for the performance or results of any installation or use of the product(s) or any final product into which the product(s) may be incorporated by the purchaser and/ or user. The purchaser and/ or user should perform its own tests to determine the suitability and fitness of the product(s) for the particular purpose desired in any given situation.



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