

WIRE AND CABLE MARKING



**POLYONICS®**

*Personal Chemistry*

**TRUSTED FLEXIBLE AND DURABLE  
WIRE AND CABLE MARKING LABELS**

# FLAME RETARDANT WIRE AND CABLE MARKING LABELS FOR HARSH ENVIRONMENTS

The Polyonics® line of flame retardant wire marking labels was designed for harsh aerospace and transportation ID and tracking applications. The polyimide materials have durable matte topcoats that are thermal transfer printable. The XF-603 wire marker utilizes an ultra-aggressive, flame-retardant, pressure sensitive adhesive (PSA) that can be wrapped around cables and wires or be used as a flag identifier (PSA to PSA).

## FLAME RETARDANT TECHNOLOGY

Polyonics flame retardant wire marking material is specifically designed by combining several chemical and physical mechanisms to create char layers. Char layers help effectively control heat transfer while minimizing the generation of flammable gases, oxygen and material decomposition to prevent the propagation of fire.

## FLEXIBLE, DURABLE NYLON WIRE AND CABLE MARKING LABELS

Polyonics offers three nylon label materials that can be utilized in lower temperature applications for wire and cable identification. The nylon cloth is a durable, flexible material that will conform to most round or curved substrates. The XF-300 has a thick aggressive adhesive for high bond strength, while XF-301 has a low-profile PSA and can be exposed to temperatures as low as -321 °F (-196 °C) (cryogenics storage) without losing performance.

## FEATURES AND BENEFITS

- Flexible materials
- Chemically resistant

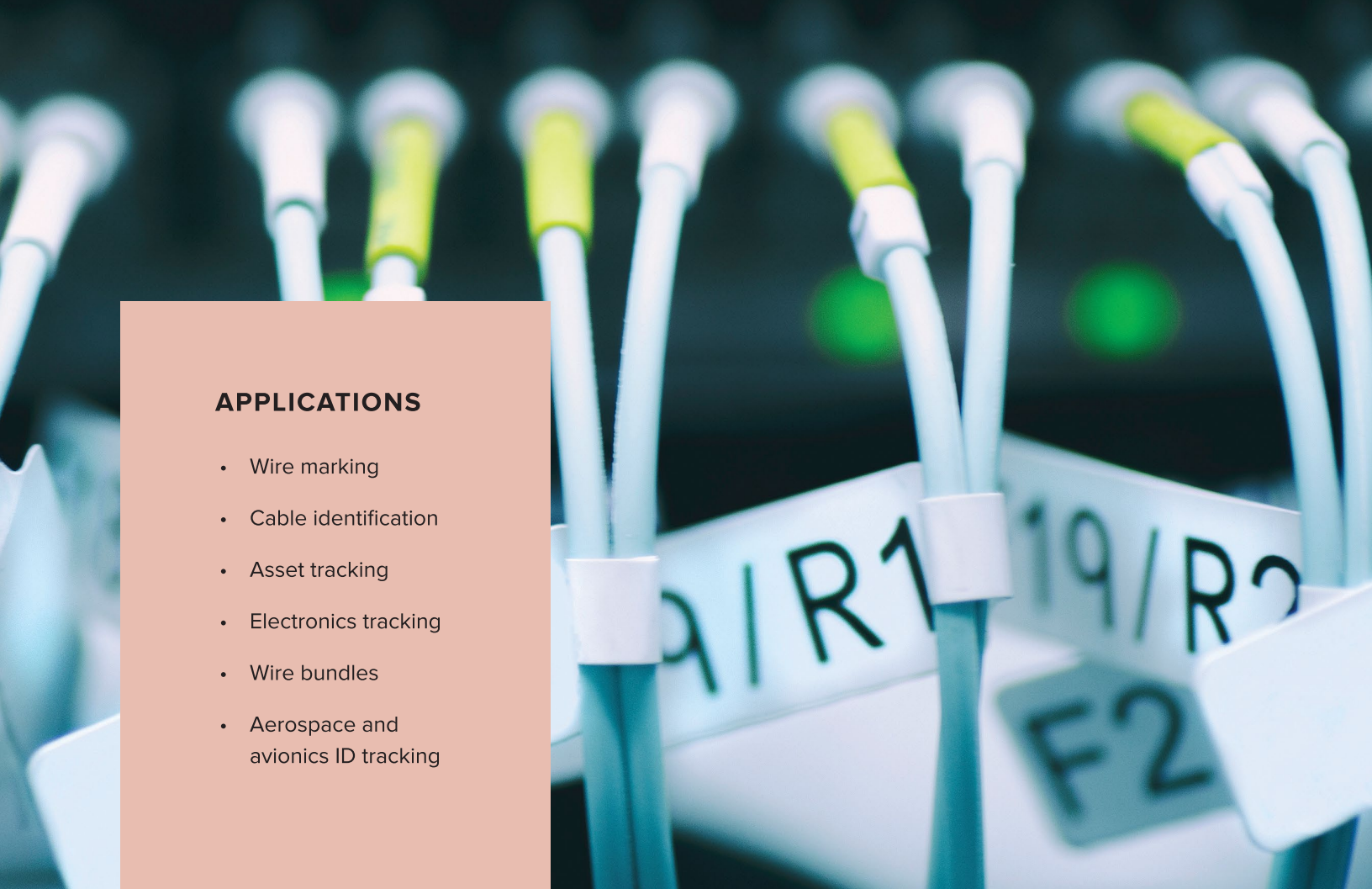
### *(Flame Retardant)*

- FAR 25.853 & 25.855 rated
- BSS 7238/7239 smoke and toxicity tested
- UL94 VTM-0 tested
- Boeing 1347J fluids and chemicals tested

### *(Nylon)*

- Low temperature capability





## APPLICATIONS

- Wire marking
- Cable identification
- Asset tracking
- Electronics tracking
- Wire bundles
- Aerospace and avionics ID tracking

# POLYONICS WIRE MARKING LABEL PRODUCT LINE

Film	Product	Finish	Adhesive	Flame Retardant (UL94 VTM-0 Rated)	Boeing 1347 J	Reach and RoHS Compliant	Temperature
1 mil (25 µm) Polyimide	<b>XF-603</b>	Semi-gloss white	1 mil (25 µm) Acrylic	✓		✓	100 hrs at 302 °F (150 °C) 5 min at 500 °F (260 °C) 90 sec at 572 °F (300 °C)
5 mil (125 µm) Nylon	<b>XF-300</b>	Woven Cloth - White	2 mil (50 µm) High Temperature Acrylic			✓	<i>High Temperature:</i> 5 min at 356 °F (180 °C) 30 days at 230 °F (110 °C)
	<b>XF-302</b>	Woven Cloth - White	1 mil (25 µm) High Temperature Acrylic			✓	<i>Cryogenic Storage:</i> 1 hr in liquid nitrogen at -320 °F (-196 °C) 30 days at -158 °F (-70 °C)

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