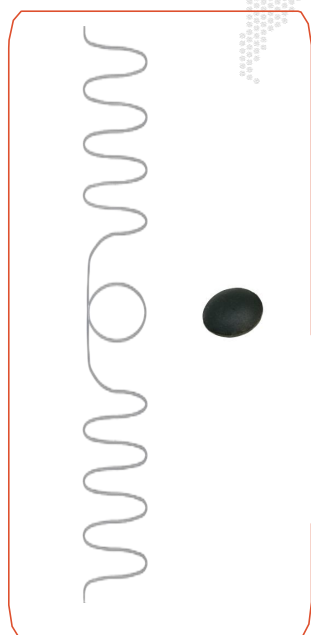


## JYL-FL 7010/7015



JYL-FL UHF Textile laundry tag is a coupled tag designed for textile products that go through a variety of industrial laundering processes, including sterilization and ironing. Its manufactured with UHF technology (860-960 MHz) and conforms to international standards EPC Class1 Gen2, ISO 18000. The JYL-Tech UHF fabric laundry tag is capable of mass reading from a distance of a few meters. These tags identifies, tracks and manages linen and textile assets effectively . For establishments that require a constant flow of cleaning linens, uniforms, workwear, medical apparel or cleaning supplies, laundry tags assist automated systems to track large numbers of individual items faster and more accurately.

### Architecture



Textile laundry tag consists of 3 main parts which can withstand harsh industrial environment for laundry processes operating for hundreds cycles.

#### Part1: LaundryChips

A silicon chip protection by rigid resin housing withstand harsh industrial laundry environment repeat for hundreds of circulations washing

#### Part2: Laundry Antenna

Antenna made of flexible, anti-oxidative stainless steel fibers, coated with Teflon, resistant to high temperature chemical detergent liquids during all laundry processes

#### Part3: FABRIC SUBSTATE

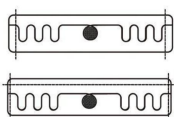
Based on the RFID module and antenna, the components are held in place and withstand millions of shocks. The fabric material requires a series of pretreatments to keep shrinkage and deformation within minimum range, and is coated with a silicone heat adhesive as a laminating overlays to protect the laundrychip inside

### Highlights

- More than 250 washing cycles ( under industrial washing environment pressure 60 bars, heating at 200°C );
- Small dimensions & Maximum flexibility, with ultra-high-density bulk reading;
- Available in 3 versions: source tagging(sewn), patchable (heat-sealable) and in pouch;
- On Demand Service: Laser logo with EPC encoding in RFID chip;

### Installation

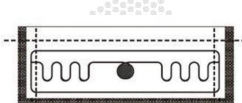
#### Stitching



#### Heat sealed



#### Pouching



| Tag Type              | JYL-FL7010                                                                                                                                                                                                                               | JYL-FL7015               |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Tag Dimensions        | 70(L) x 10(W) x 1.5(H)mm                                                                                                                                                                                                                 | 70(L) x 15(W) x 1.5(H)mm |
| Tag Weight(Approx.)   | 0.6g                                                                                                                                                                                                                                     | 0.6g                     |
| Tag Warranty          | Over 250 wash cycles or 3 years from shipping date (whichever comes first)                                                                                                                                                               |                          |
| Tag Memory            | EPC 96bits , User 0bits                                                                                                                                                                                                                  |                          |
| Data Retention        | 20 years                                                                                                                                                                                                                                 |                          |
| Read Distance         | Up to 5 ~ 7 meters (ERP=2W fixed reader)                                                                                                                                                                                                 |                          |
| Operating Power       | Passive, operates through antenna's RF field                                                                                                                                                                                             |                          |
| Operating Frequency   | 865~928MHz                                                                                                                                                                                                                               |                          |
| Typical Washing Cycle | Washing: 90°C(194oF), 15 minutes, 200 cycle<br>Pre-drying in Tumbler: 180°C(320oF), 30minutes<br>Ironer: 180°C(356oF), 10 seconds, 200 cycles<br>Sterilization Process: 135°C(275oF), 20 minutes<br>Mechanical Resistance: Up to 60 bars |                          |
| Autoclave             | Air removal: +100°C(+212° F), 5mins, 0.1bar<br>Sterilizing:+134°C(+273° F), 10mins, 3.25bar<br>Drying:+45°C(+113° F), 15mina, 0.2bar                                                                                                     |                          |
| Patching Instruction  | +204°C(399° F), 12secs, 0.5kg/cm2                                                                                                                                                                                                        |                          |
| Storage Temperature   | -40°C to +120°C(-40° F to +248° F)                                                                                                                                                                                                       |                          |
| Chemical Resistance   | Normal common chemicals in the washing processes                                                                                                                                                                                         |                          |
| Compliance            | ISO/IEC 18000-6C EPC Class 1 Gen 2                                                                                                                                                                                                       |                          |
| Certification         | OEKO-TEX®, ATP, REACH , Over 200times Washing , ROHS , MRI Safe                                                                                                                                                                          |                          |

## Order Code

**JYL=** Laundry Tag Brand   **FL=**Fabric Laundry

**3515/3611/5512/5815/7010/7015/7018/7510/7512/7515** = Laundry Tag Size Options

**T** = Tagging (to be sewn into textile)

**H** = Heat-Sealable (to be heat-sealed on textile)

**P** = Pouching (pouch with generic RFID logo embroidered)

**E** = Re-programmable(to be encoded on chips)

**L** = Laser (Numbering, Bracode, EPC laser-marked)

**For example:** JYL-FL7015-T = JYL Fabric Laundry sewing type Tag with 70\*15mm size

