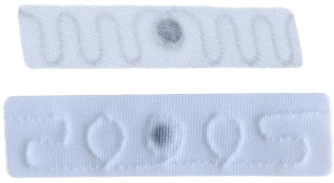
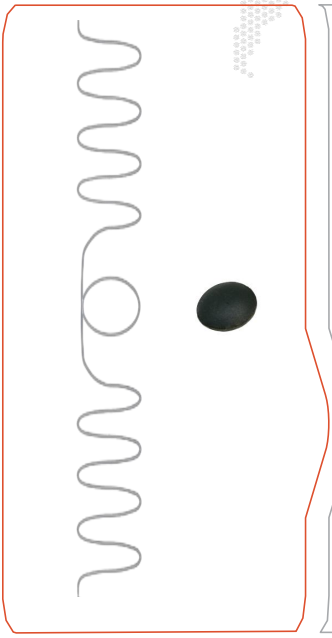
JYL-FL 5512/5815



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

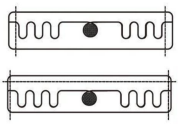
Part3: FABRIC SUBSTATE
Based on the RFID module and antenna, the components are held in place and withstand millions of shocks. The fabric material requires a series of pretreatments to keep shrinkage and deformation within minimum range, and is coated with a silicone heat adhesive as a laminating overlays to protect the laundrychip inside

Highlights

- More than 200 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

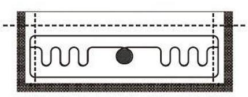
Stitching



Heat sealed



Pouching



JYL-Tech®

Specifications

Tag Type	JYL-FL5512	JYL-FL5815
Tag Dimensions	55(L) x 12(W) x 1.5(H)mm	58(L) x 15(W) x 1.5(H)mm
Tag Weight(Approx.)	0.6g	0.6g
Tag Warranty	Over 200 wash cycles or 2 years from shipping date (whichever comes first)	
Tag Memory	EPC 96bits , User 0bits	
Data Retention	20 years	
Read Distance	Up to 4 ~ 6 meters (ERP=2W fixed reader)	
Operating Power	Passive, operates through antenna's RF field	
Operating Frequency	865~928MHz	
Typical Washing Cycle	Washing: 90℃ (194℉), 15 minutes, 200 cycles Pre-drying: 180℃ (356℉), 30 minutes, 200 cycles Ironing: 180℃ (356℉), 12 seconds, 200 cycles Sterilization: 135℃ (275℉), 20 minutes, 200 cycles Mechanical Resistance: Up to 60 bars	
Autoclave	Air removal: +100℃(+212° F), 5mins, 0.1bar Sterilizing:+134℃(+273° F), 10mins, 3.25bar Drying:+45℃(+113° F), 15mina, 0.2bar	
Patching Instruction	+215℃ (+419℉), 18 secs, 0.6-0.8 kg/cm²	
Storage Temperature	-40℃ to +85℃ (-40℉ to +185℉)	
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 200 times 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

