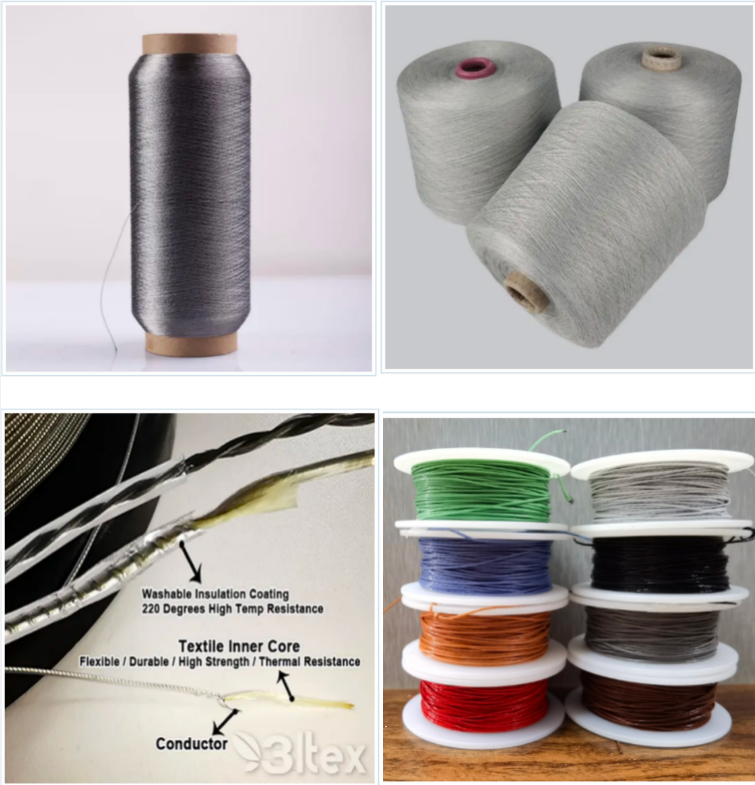


Heating Yarn



Heating Yarn including:

1. Stainless steel filaments heating yarn
2. Metal blended yarn
3. Stainless steel filaments + Heat resistant Material Coat (TEFLON,PFA,FEP...)

1.Stainless steel filaments heating yarn

[Product composition] 316L stainless steel filaments

[Product Description] Stainless steel filaments heating yarn is a flexible wire made of single or multiple strands of steel filaments. Excellent electrical conductivity, high strength, high elasticity, wear resistance, corrosion resistance and excellent thermal stability in oxidizing atmospheres; Good durability, easy to weave into textiles, wide range of resistance, can be customized heating resistance; The intelligent heating element made of ultra-fine metal fiber has the characteristics of far infrared function, softness, folding resistance, uniform heating and long service life.

【 Product Application 】

- 1) Anti-Static Brush
- 2) High Temperature Resistant Sewing Thread
- 3) Signal Transmission Line
- 4) Conductive Transmission Line
- 5) Hotline 6) Smart Clothing

【 Technical parameters 】

Specification	Weight g/M	Breaking strength (N)	Elongation (%)	Resistance (Ω)
14 μ.m*90*1	0.12	25	1.10	61
12 μ.m*90*2	0.17	44	1.10	42
12 μ.m*100*1	0.095	24	1.10	59
12 μ.m*100*2	0.19	41	1.10	38
12 μ.m*100*3	0.28	69	1.10	22
12 μ.m*275*1	0.26	59	1.10	27
12 μ.m*275*2	0.54	75	1.10	14
12 μ.m*275*3	0.78	125	1.10	9
12 μ.m*275*4	1.05	130	1.10	7
12 μ.m*275*5	1.3	160	1.10	5
12 μ.m*275*6	1.5	180	1.10	4
12 μ.m*1000*1	0.95	100	1.10	7
12 μ.m*1000*2	1.9	340	1.10	4

2, metal fiber blended heating yarn

[Product composition] different proportions of polyester, acrylic, cotton, viscose, aramid and metal fiber blended yarn.

【 yarn form 】 cylinder yarn

【 Product Description 】

Conductive yarn is made of a certain proportion of stainless steel fiber and ordinary fiber blend, is a kind of conductive and metallic luster yarn, excellent blending uniformity; With dyeable, strong, cost-effective. It includes electromagnetic shielding blended yarn, anti-static blended yarn and conductive blended yarn.

In the electromagnetic frequency range of 30MHZ to 3GHZ, the shielding efficiency of the blended fabric can reach 20 ~ 70 dB; The anti-static blended yarn has high strength and the surface resistivity of the fabric is less than 10⁷. After washing for many times, the clothing has long-term effective anti-static, electromagnetic shielding performance is basically unchanged, and has excellent acid and alkali corrosion resistance. Light and soft, breathable and wear performance is good, easy to dye sewing.

Conductive use The blended yarn has stable conductive property, good resistance to perspiration and oxidation, and permanent conductive property, suitable for intelligent clothing transmission lines and fabrics; On knitting, it has fluffy and warm feel and sensitive touch screen performance;

Military, can effectively prevent radar detection.

【 Product Application 】

It is used in civil electromagnetic shielding clothing, making electromagnetic shielding covers such as precision electronic components and high-frequency welding machines, housing walls and ceiling wall cloths with electromagnetic shielding requirements, electromagnetic shielding curtains, tents, etc. High-voltage patrol clothes and high-voltage live work clothes for power operators; Anti-static fire clothing, non-woven fabric, carpet; Electrostatic protection of human body and equipment in flammable and explosive environment; Touch screen gloves; Radar camouflage screen; Smart clothing, etc.

【 Technical parameters 】

Metal fiber content	commonly mixed fiber raw yarn	Yarn count (Ne)
10%-50%	polyester, acrylic, cotton, viscose, aramid	10-50, 10/2-50/2

3, Teflon insulated conductive heating wire

ultra-fine, flexible, bend-resistant, ultra-low resistance and high-temperature drying-resistant, long life washable tag wires, To add outer insulation coating is flexible / durable, resistant to high temperature, resistant to bending and washable.

RFID flexible washing tags are applied RFID radio frequency identification technology. By sewing a strip-shaped electronic washing tag on each linen, the tag has a globally unique identification code and can be used repeatedly. In the entire linen use and washing management, it is read in batches by RFID readers and automatically records the linen use state and washing times. Makes the transfer of washing tasks simple and transparent, reducing business disputes. At the same time, by tracking the washing times, users can estimate the service life of the current linen and

provide forecast data for the purchase plan.

3LTEX has developed ultra-fine, flexible, bend-resistant, ultra-low resistance and high-temperature drying-resistant, long life washable tag wires, To add outer insulation coating is flexible / durable, resistant to high temperature, resistant to bending and washable.

Its performance remains unchanged after drying and ironing at over 250 degrees to ensure safe, reliable and efficient data transmission.

PFA Coating material Main feature:

PFA also called soluble polytetrafluoroethylene (soluble PTFE), the properties of PFA are similar to PTFE and FEP. It is a copolymer of a small amount of perfluoropropyl perfluorovinyl ether and polytetrafluoroethylene.

PFA is (soluble polytetrafluoroethylene) excellent in heat resistance, cold resistance, chemical stability, mechanical properties, insulating properties, self-lubricating properties, folding resistance, and crack resistance.

PFA physical properties:

PFA has a melting point of about 580F and a density of 2.13-2.16 g/cc (grams per cubic centimeter), 260°C long term working temperatures.

Stainless steel Filaments Main feature:

Good electrical conductivity, high strength, high elasticity, wear resistance, corrosion resistance and excellent thermal stability in an oxidizing atmosphere, excellent thermal conductivity, eliminate static electricity, non-combustible, high temperature resistance, radiation protection, sound absorption, UV protection, filter-ability, good cushioning, high cutting strength, High permeability, good malleability.

Depending on the specific characteristics and needs of your application, stainless steel wires can be customized:

A- stainless steel multi-filaments

B- steel core with an outer layer of nickel, zinc or copper

For electrical insulation the cable can also be protected by a protective outerlayer.

A wide range of electrical resistances is available