

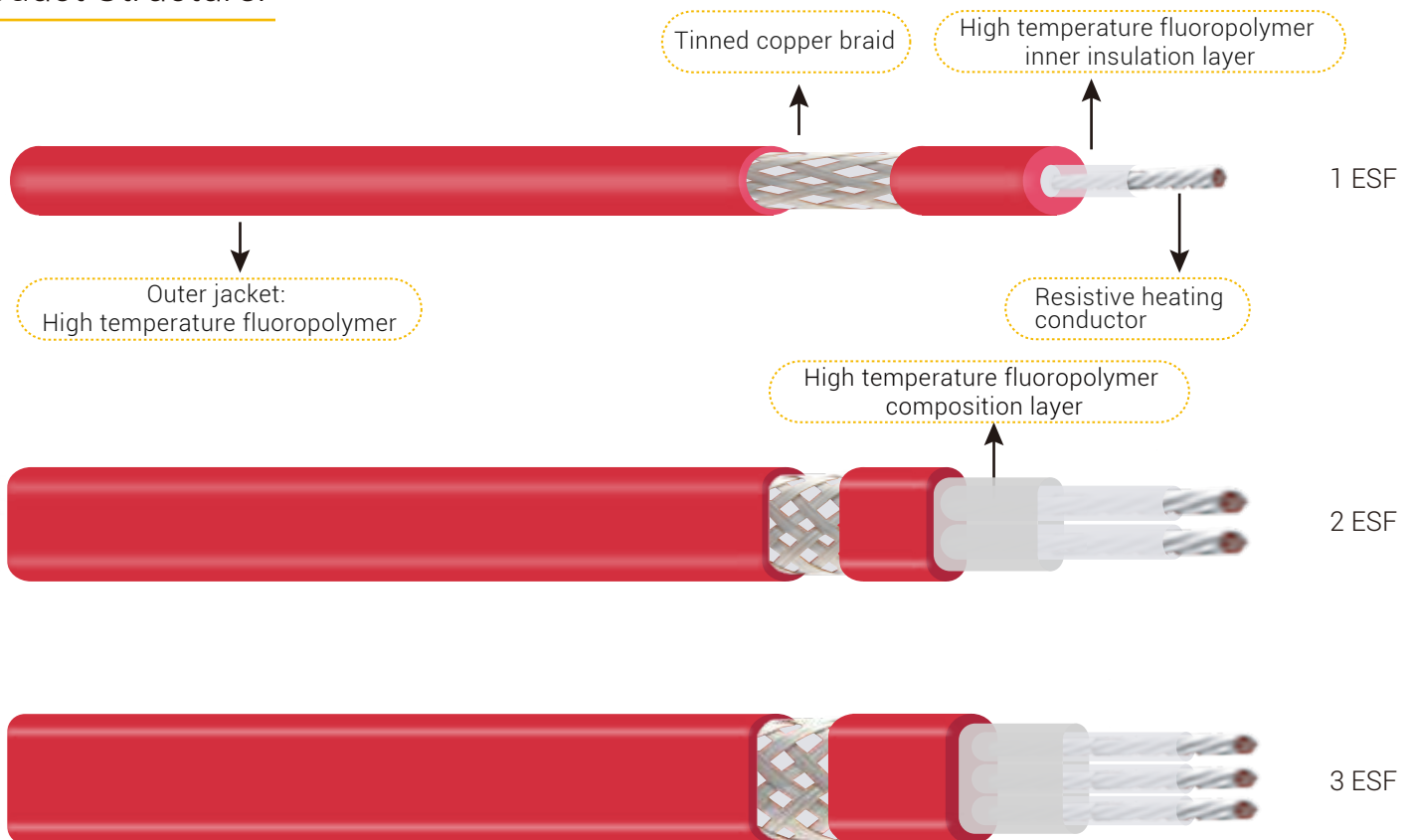


## ESF series heating cable

### Overview:

Jiahong ESF series heating cable can be normally used for pipe freeze protection and temperature maintenance, especially it is the best and economic solution for longline pipe which the length exceeded the maximum circuit length of self-regulating or parallel constant power output. Single-core, twin-core and triple-core which are named as 1ESF, 2ESF and 3ESF are three types of series heating cable, as well as different resistance spec, so the heating cable can be suitable for different voltage level (Shown in certification) and electrical connection, as well as to the heat tracing requirement for different type or length of pipeline and vessel.

### Product Structure:



The core is resistive heating conductor, and high temperature fluoropolymer inner insulation layer, tinned copper braid, high temperature fluoropolymer are to be added to form a complete structure of ESF heating cable, in addition there is high temperature fluoropolymer composition layer between braid and conductor in twin-core (2ESF) and triple-core (3ESF) structure.



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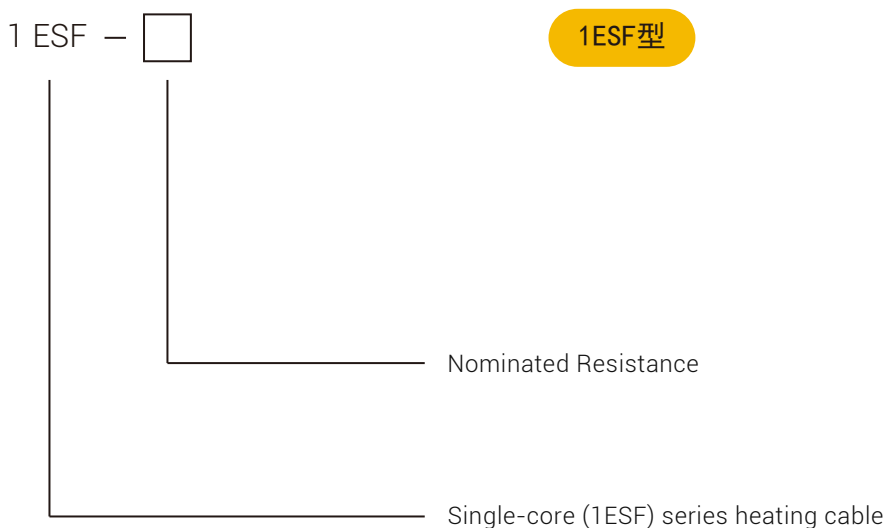


## Product Feature:

- ◆ ESF heating cable is certified by IECEx, ATEX, NEPSI China and EAC Russia, including explosion-proof application, which can be used in the explosion area and ordinary safety area.
- ◆ Simple installation and stable power output of unit length.
- ◆ Different electrical power connection to achieve the heat tracing requirement in most economic and optimization.
- ◆ It has a complete series of accessory, including standard power box, splice/tee connection box and end seal box etc, which can ensure the long service life of the product

## Technical Specification:

Nominated Voltage:	220V/380V/660V
Maximum exposure temperature:	+205℃ (401°F)
Minimum installation temperature:	-60℃(-76°F)
Minimum bending radius:	No lower than 5 times outer-diameter
Approvals mark:	    



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Nominated resistance specification (Table 1)					
Type	Resistance ( $\Omega/\text{km}$ ) @ 20°C	Refer outer diameter $\phi$ (mm)	Type	Resistance ( $\Omega/\text{km}$ ) @ 20°C	Refer outer diameter $\phi$ (mm)
1ESF-1.8	1.8	7.15 $\pm$ 0.1	1ESF-36	36	3.7 $\pm$ 0.10
1ESF-2.39	2.39	6.45 $\pm$ 0.10	1ESF-50	50	4.1 $\pm$ 0.10
1ESF-2.75	2.75	6.2 $\pm$ 0.10	1ESF-65	65	3.5 $\pm$ 0.10
1ESF-2.9	2.9	6.1 $\pm$ 0.10	1ESF-80	80	3.8 $\pm$ 0.1
1ESF-3.9	3.9	5.65 $\pm$ 0.10	1ESF-100	100	3.5 $\pm$ 0.10
1ESF-4.4	4.4	5.55 $\pm$ 0.10	1ESF-150	150	3.7 $\pm$ 0.10
1ESF-5.11	5.11	5.1 $\pm$ 0.10	1ESF-200	200	3.7 $\pm$ 0.10
1ESF-5.97	5.97	5.0 $\pm$ 0.10	1ESF-250	250	3.32 $\pm$ 0.10
1ESF-6	6	5.0 $\pm$ 0.10	1ESF-700	700	3.7 $\pm$ 0.10
1ESF-7	7	4.8 $\pm$ 0.10	1ESF-1750	1750	3.63 $\pm$ 0.10
1ESF-8.85	8.85	4.6 $\pm$ 0.10	1ESF-1900	1900	3.61 $\pm$ 0.10
1ESF-10	10	4.5 $\pm$ 0.10	1ESF-2900	2900	3.4 $\pm$ 0.10
1ESF-11.7	11.7	4.4 $\pm$ 0.10	1ESF-4000	4000	3.3 $\pm$ 0.10
1ESF-15	15	4.2 $\pm$ 0.10	1ESF-5160	5160	3.22 $\pm$ 0.10
1ESF-19.2	19.2	4.0 $\pm$ 0.10	1ESF-6000	6000	3.18 $\pm$ 0.10
1ESF-17.8	17.8	4.0 $\pm$ 0.10	1ESF-7000	7000	3.16 $\pm$ 0.10
1ESF-23.5	23.5	3.9 $\pm$ 0.10	1ESF-8000	8000	3.15 $\pm$ 0.10
1ESF-25	25	3.9 $\pm$ 0.10			

2 ESF — 

2ESF型

Nominated Resistance

Twin-core (2ESF) series heating cable



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Nominated resistance specification (Table 2)

Type	Resistance ( $\Omega/\text{km}$ ) @ 20°C	Refer outer diameter $\phi$ (mm)	Type	Resistance ( $\Omega/\text{km}$ ) @ 20°C	Refer outer diameter $\phi$ (mm)
2ESF-3.9	3.9	10.0*6.2	2ESF-13.45	13.45	7.3*4.9
2ESF-4.4	4.4	9.8*6.1	2ESF-15.43	15.43	7.1*4.8
2ESF-5.97	5.97	9.1*5.8	2ESF-22.87	22.87	6.6*4.5
2ESF-6	6	9.1*5.8	2ESF-46.05	46.05	7.1*4.8
2ESF-19.2	19.2	7.1*4.8	2ESF-90.25	90.25	6.7*4.6
2ESF-11.7	11.7	7.8*5.1			

3 ESF — 

3ESF型

Nominated Resistance

Triple-core (3ESF) series heating cable

Nominated resistance specification (Table 3)

Type	Resistance ( $\Omega/\text{km}$ ) @ 20°C	Refer outer diameter $\phi$ (mm)	Type	Resistance ( $\Omega/\text{km}$ ) @ 20 C	Refer outer diameter $\phi$ (mm)
3ESF-1.8	1.8	17.8*7.5	3ESF-11.7	11.7	10.3*5.0
3ESF-6	6	11.7*5.2	3ESF-23.5	23.5	8.9*4.6
3ESF-10	10	10.1*4.5			



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