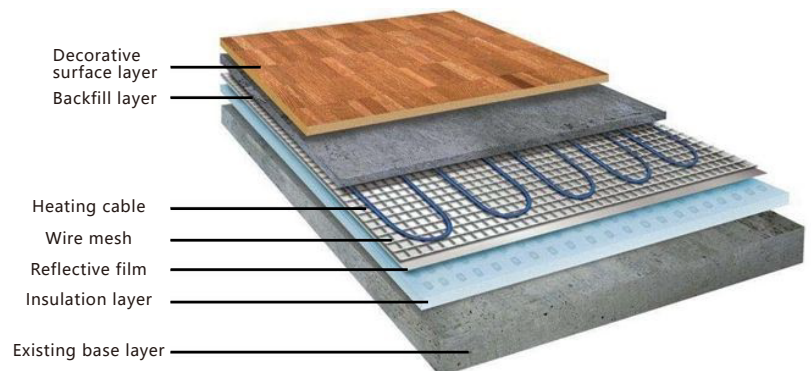
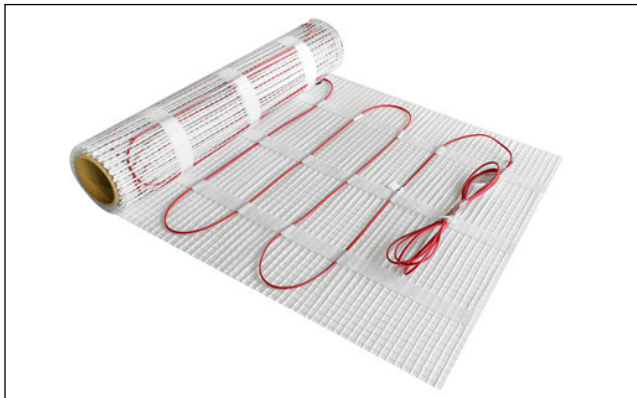




## Specification for Spliceless Heating Mat Products

### Product Description

Spliceless heating products use a welding method that fuses the cold lead and the heating cable to ensure that the joints of the entire product are perfectly combined without any defects.



The product is mainly used for indoor floor heating and can be installed under tiles or floors to evenly transfer heat upwards by radiation, providing healthy and comfortable warmth.

### Product characteristics

2.1 Double-conductor structure: Traditional single-conductor heating cables need to be connected to cold wires at both ends, while Spliceless heating products have one cold wire and one sealed end, which is more convenient to install.

2.2 Reliable joint connection: Spliceless heating products use a method of welding multiple conductor wires together, which has obvious advantages in strength and stability compared to the single-wire welding connection of other products. The collection of multiple wires enables them to bear the load together and share the stress, thereby improving the overall strength. The mutual entanglement and interweaving between the multiple wires increases the stability of the connection and makes the welding part more secure. In contrast, single-wire welding has fewer connection points and has weaker joint stability and strength.

Single strand connection	
Multiple strand connection	

2.3 Wide range of products: Excellent manufacturing technology allows us to provide more size options, the smallest option is the Spliceless heating product with a total power of 30W and a cable length of only 3 meters. These short-length products are mainly used in smaller areas such as bathrooms, where traditional thermoplastic sleeve joints are easily exposed to water and have relatively poor waterproof performance.



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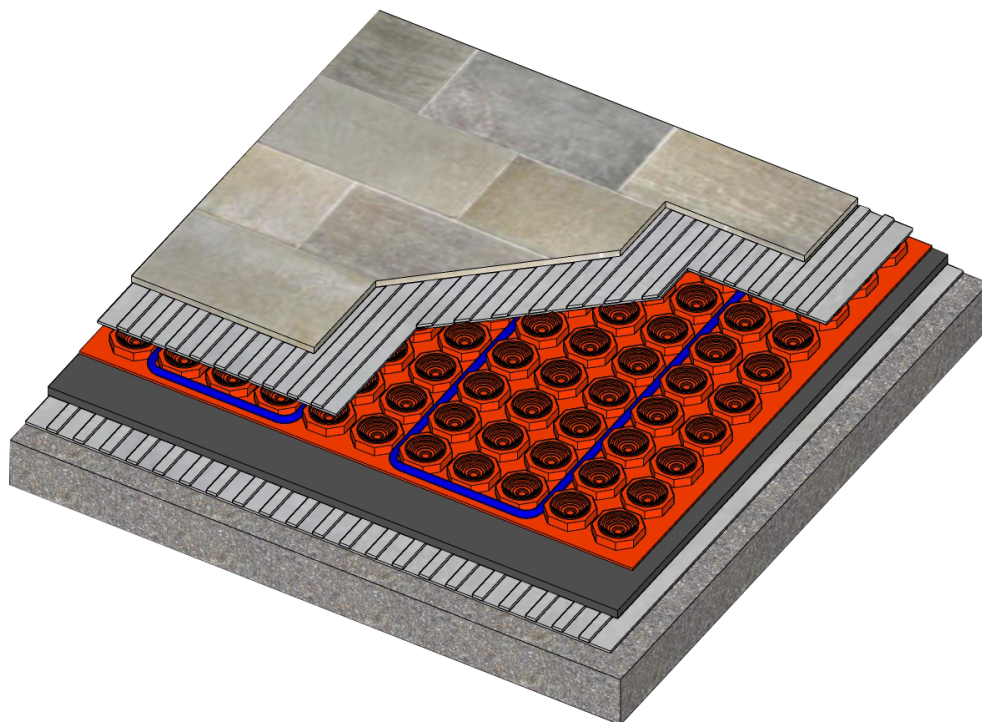
2.4 Easy Installation: The products are easy to bend, to pass through conduits, and lower the floor height caused by traditional joints

2.5 Aesthetic Design: The outer diameter of the product is consistent throughout its entire length.

2.6 Strong Waterproof Capability: The joint part adopts the method of internal wire welding, insulation and outer sheath material seamless extrusion molding, and has excellent sealing performance.

2.7 Safe to use: The structure of the tin-plated copper shielding layer has anti-electromagnetic interference and good mechanical characteristics, and it can be used as a grounding wire.

2.8 Compatible Application: Suitable for use with plastic membranes. There's no need to cut the plastic membrane for the joint and it helps reduce floor height.



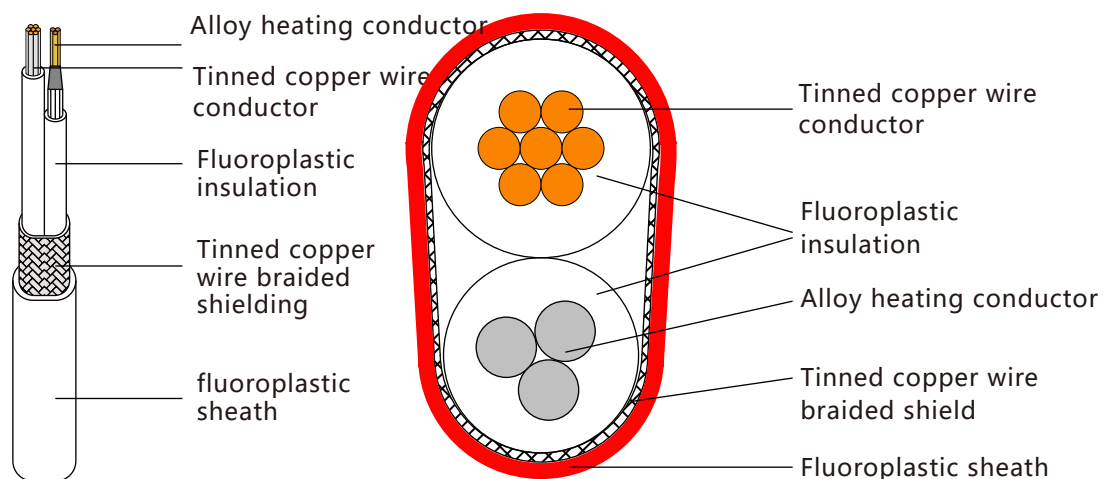
## Product Naming

MinimatY F

Fluoroplastic

Product Model

## Product structure diagram



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[www.ahjiahong.com](http://www.ahjiahong.com)



[info@ahjiahong.com](mailto:info@ahjiahong.com)



## Technical Specifications Sheet

Cable Structure:	Dual-conductor single heating
Rated voltage:	230V
Power Output:	150W/m <sup>2</sup> (optional range: 60-200W/m <sup>2</sup> )
Cable spacing:	80mm
Outer Diameter:	2.5-5.0mm
Insulation Material:	Fluoroplastics
Sheath Material:	Fluoroplastics
Maximum Withstand Temperature:	160°C
Minimum Withstand Temperature:	-40°C
Cold Wire Length :	2.5m (optional for other lengths)
Bending Radius:	6D (D: outer diameter of the cable product)

## Product selection

Model	Power	Heating Wire Length	Total Resistance	Outer Diameter	Heating Range		Geothermal Network Dimensions	
	w	m	Ω	mm	m <sup>2</sup>	sq.ft	m*m	in.*ft.
MinimatY-F/150-75-0.5	75	6.25	705.3	3.3*2.3	0.5	5.4	0.5*1	20*3.2
MinimatY-F/150-150-1.0	150	12.5	352.7	3.3*2.3	1	10.8	0.5*2	20*6.5
MinimatY-F/150-225-1.5	2225	18.8	235.1	3.3*2.3	1.5	16.1	0.5*3	20*6.5
MinimatY-F/150-300-2.0	300	25	176.3	3.3*2.3	2	21.5	0.5*4	20*12.9
MinimatY-F/150-375-2.5	375	31.3	141.1	3.3*2.3	2.5	26.9	0.5*5	20*16.1
MinimatY-F/150-450-3.0	450	37.5	117.6	3.5*2.4	3	32.3	0.5*6	20*19.4
MinimatY-F/150-525-3.5	525	43.8	100.8	3.5*2.4	3.5	37.7	0.5*7	20*22.6
MinimatY-F/150-600-4.0	600	50	88.2	3.5*2.4	4	43.1	0.5*8	20*25.8
MinimatY-F/150-675-4.5	675	56.3	78.4	3.5*2.4	4.5	48.4	0.5*9	20*29.1
MinimatY-F/150-750-5.0	750	62.5	70.5	3.7*2.5	5	53.8	0.5*10	20*32.3
MinimatY-F/150-900-6.0	900	75	58.8	3.7*2.5	6	64.6	0.5*12	20*38.8
MinimatY-F/150-1050-7.0	1050	87.5	50.4	4.1*2.7	7	75.3	0.5*14	20*45.2
MinimatY-F/150-1200-8.0	1200	100	44.1	4.1*2.7	8	86.1	0.5*16	20*51.7
MinimatY-F/150-1350-9.0	1350	112.5	39.2	4.1*2.7	9	96.9	0.5*18	20*58.1
MinimatY-F/150-1500-10	1500	125	35.3	4.2*2.8	10	107.6	0.5*20	20*64.6
MinimatY-F/150-1650-11	1650	137.5	32.1	4.2*2.8	11	118.36	0.5*22	20*71.1
MinimatY-F/150-1800-12	1800	150	29.4	4.2*2.8	12	129.2	0.5*24	20*78.8



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