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1. Product Structure
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The Advantages & Application of Self-regulating Heating Cable

Company Profile

Zhejiang Huayuan Electric Heat Co., Ltd was founded in 1995. It is a high-tech enterprise which specialized in the R & D and manufacturing PTC (Positive Temperature Coefficient) materials and series of heating cable, warmfloor, tubing bundle, shoes dryer and resettable fuse.

Our company is the unit who drafted the “National standard of self-regulating heating cable” and also has the patent for invention of “PTC material and preparation method” in China.

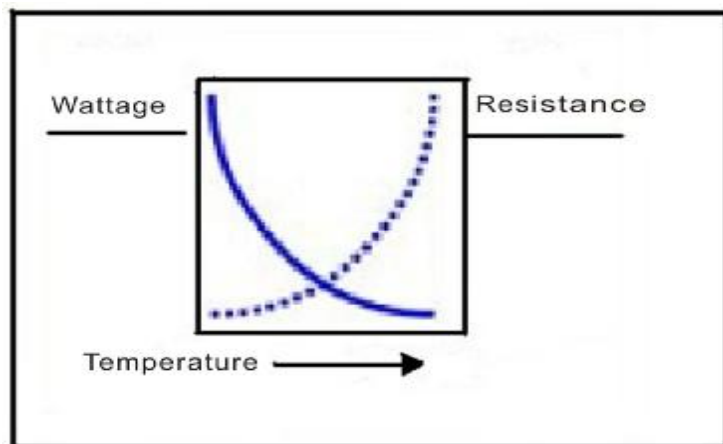
Rely on 16 years experience, high quality and good service, our company ranks top three in China. Meanwhile, with the certificate of CE, CSA, ROHS, etc. our products are gradually moving towards the world.



Self-regulating Heating Cable System

Self-regulating heating cable is adopted the technology of conducting polymer. The heating part is made up of polymer and conductive carbon. The circuit which generated by these mixed materials can make the current circulate in parallel between generatrix on the whole cable length.

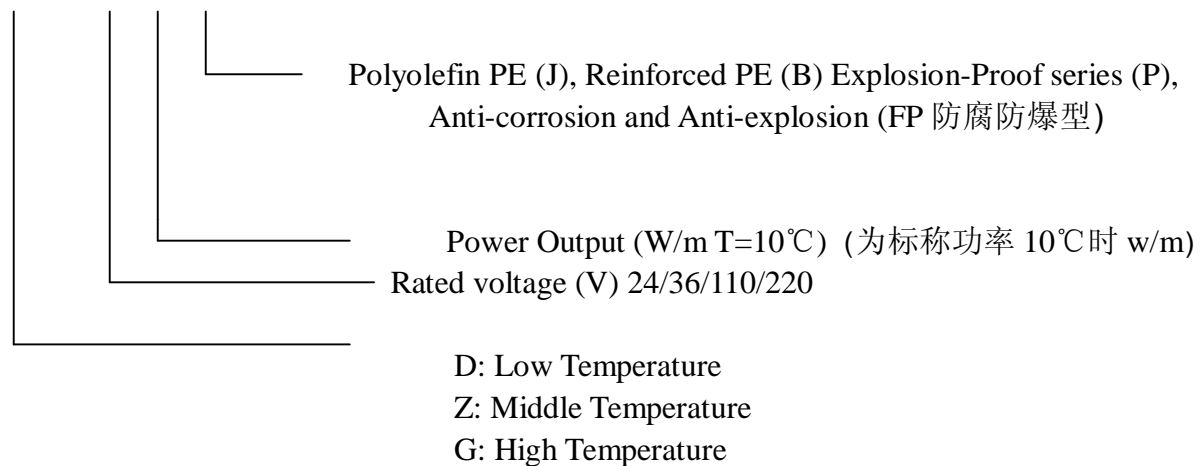
Self-regulating heating cable consists of PTC conductive material, two parallel generatrix and insulation sleeve. PTC materials laying evenly between the two generatrix, and it is equal to a parallel connection circuit system which consists of infinite sensitive resistance of PTC function. The power will adjust automatically as the temperature changes. Therefore, the system is more stable, reliable, safety and energy efficiency.



Self-regulating Heating Cable

1. Product Structure

□BW-□-□-□



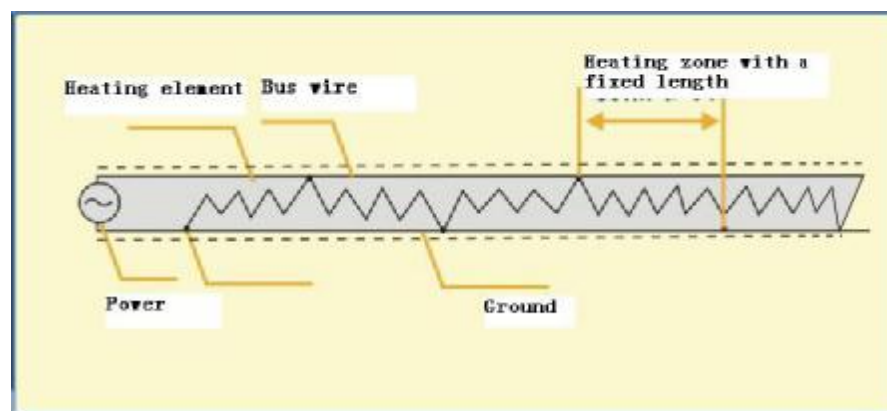
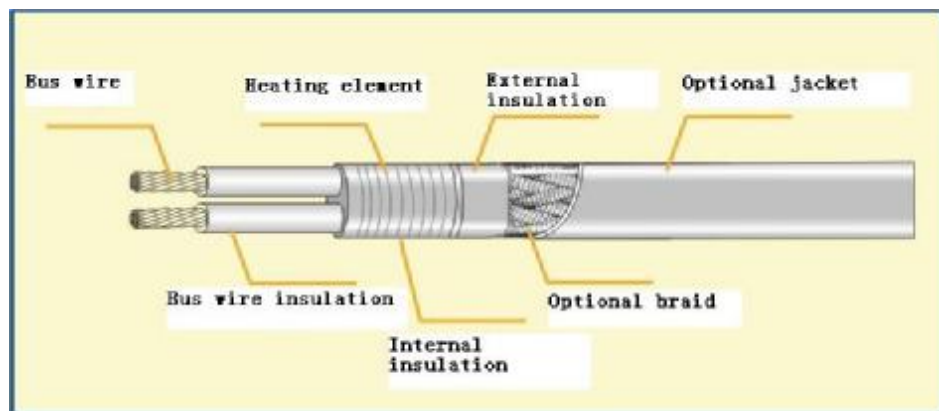
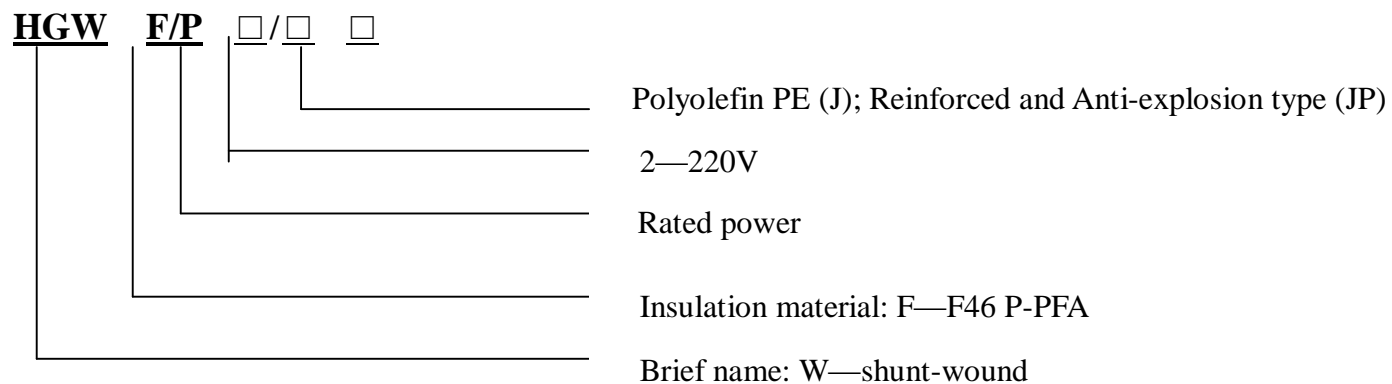
1. Tinned Copper conductors (镀锡铜绞线)
2. PPTC conductive core (PPTC 材料)
3. Polyolefin (聚烯烃护套)
4. Tinned copper braid (镀锡铜网编织层)
5. Fluoropolymer Jacket (氟塑料外层护套)

2. Type & Related Data

Products	Model			Maximum using length (M)	Maximum maintain temperature (°C)	Maximum Withstand temperature (°C)
	Model	Wattage (W/M)	Voltage (V)			
Low temperature cable	DBW-J	15、25、35	220; 110; 36; 24	100	65	105
	DBW-B	15、25、35	220; 110; 36; 24	100	65	105
	DBW-P	15、25、35	220; 110; 36; 24	100	65	105
	DBW-FP	15、25、35	220; 110; 36; 24	100	65	105
Middle temperature cable	ZBW-J	40、50、60	220; 110; 36; 24	100	105	135
	ZBW-P	40、50、60	220; 110; 36; 24	100	105	135
	ZBW-FP	40、50、60	220; 110; 36; 24	100	105	135
High temperature cable	GBW-J	50、60	220; 110; 36; 24	100	135	170
	GBW-P	50、60	220; 110; 36; 24	100	135	170
	GBW-FP	50、60	220; 110; 36; 24	100	135	170

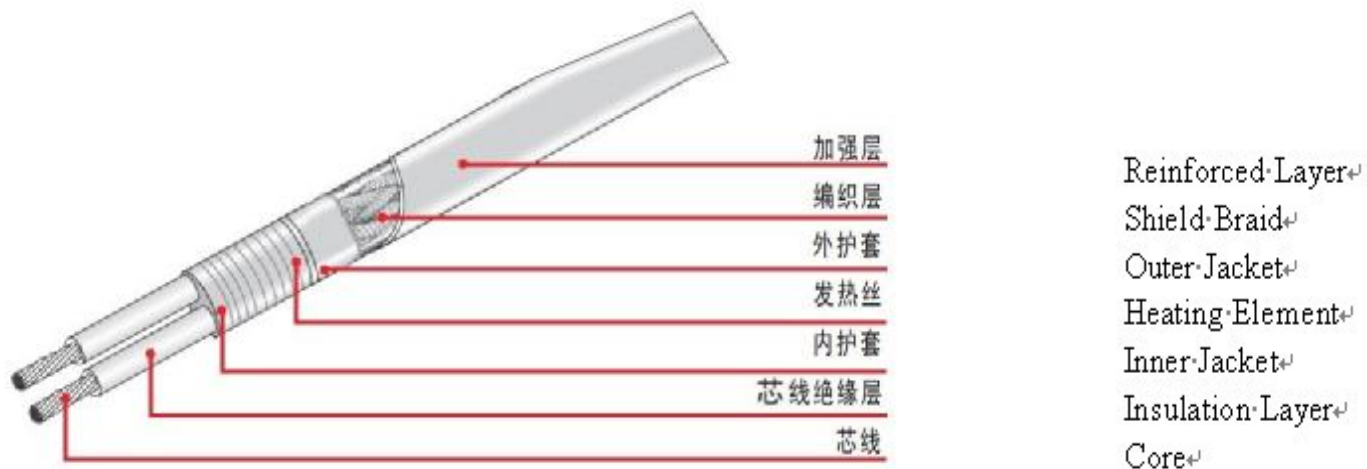
Constant Power Heating Cable

1. Product Structure



2. Type & Related Data

Type	Wattage (W/M)	Voltage (V)	Maximum maintain Temperature (°C)	Maximum Withstand temperature (°C)
HGWF-J	20,30,40	220	120	200
HGWF-JP	20,30,40	220	120	200
HGWP-J	20,30,40	220	160	260
HGWP-JP	20,30,40	220	160	260



Jacket Options & Application

Type	Jacket Material	Application	Grade
J	Flame-Retardant polyolefin	Pipe, Flame retardant, Water Resistance, Petrochemical Industry	★
B	Double Jacket, Reinforced Flame-retardant Polyolefin	Pipe, Flame retardant, Water Resistance, petrochemical industry	★★
P	Tinned Copper Braid	Pipe, Flame Retardant, Water Resistance, Petrochemical Industry explosion proof areas	★★★
FP	Tinned Copper Braid with Fluoropolymer	Pipe, Flame Retardant, Water Resistance, Petrochemical Industry Organic or Corrosive Solution, Explosion Proof Areas	★★★

Accessories

1. HYB-032 Power Connection

Specifications

Color: Black

Subject size: 102mm*102mm*33mm

Bracket size: 110mm*31mm*33mm

Weight: 0.85kg

Suitable for: self-regulating heating cable and single-phase constant power heating cable in our company

Protection Grade: Ip 65

Explosion-proof degree: EXE II T4-T6

Pore diameter: cable inlet Φ 1 8.5 mm, cable outlet: suitable for all the cables of our company

MAX cable wire: 3mm*10mm

Applicable Temperature: -50°C-60°C

MAX pipe temperature: >MAX Withstand temperature of cable

MAX rated current: 60A



2. HYB-022 Halfway Power Connection

Specifications

Color: Black

Size: 126mm*56mm*34mm

Weight: 0.20kg

Suitable for: self-regulating heating cable and single-phase constant power heating cable in our company

Protection Grade: Ip 65

Explosion-proof degree: EXE II T4-T6

Pore diameter: all the cables of our company

Applicable Temperature: -50°C-60°C

MAX pipe temperature: >MAX Withstand temperature of cable

MAX rated current: 40A



3. HYB-033 T-Power Connection

Specifications

Color: Black

Size: 126mm*68mm*34mm

Weight: 0.29kg

Suitable for: self-regulating heating cable and single-phase constant power heating cable in our company

Protection Grade: Ip 65

Explosion-proof degree: EXE II T4-T6

Pore diameter: outlet: all the DBW series and constant power heating cable in our company

Applicable Temperature: -50°C-60°C

MAX pipe temperature: >MAX Withstand temperature of cable

MAX rated current: 40A



4. HYB-011 End Seal

Specifications

Color: Black

Size: 51.5mm*45mm*19mm

Weight: 0.07kg

Suitable for: self-regulating heating cable and single-phase constant power heating cable in our company

Protection Grade: Ip 65

Explosion-proof degree: EXE II T4-T6

Pore diameter: outlet: all the DBW series and constant power heating cable in our company

Applicable Temperature: -50℃-60℃

MAX pipe temperature: >MAX Withstand temperature of cable

MAX rated current: 40A



The advantages & application of self-regulating heating cable

On the basis of our own patent and after years of continuous improvement, our company developed DBW, ZBW and GBW series of self-regulating heating cable. With the advantages of energy saving, low cost, simple construction, easy maintaining, stable performance and long life, the cables are applicable to many domains. In industry, the cables widely used in petrification, Petroleum, natural gas, electricity, transportation, medicine, refrigeration, papermaking, food, etc. In commercial field, the cables can completely solve the problems of Anti-freezing, indoor heating, etc of different pipes in buildings.

