ABAN HEAT TRACE GROUP

We provide engineering services from initial design up to turnkey project execution. Complete engineering up to commissioning. www.heating-cable.ir

HEAT TRACING SYSTEM

CONTROL & MONITORING























ABAN HEAT TRACE GROUP is an esteem established company in Tehran-Iran with the core of high of expert and engineers of more than 20 years of experience in electrical heat trace projects.

AHTG Activities have been proceeded in mains below branches:

- · Production of special heat tracing accessories for industrial and domestic application.
- · System Design and Engineering of any heat trace project specially in Oil & gas, Petrochemical, Food and Metal industry.
- Installation & Commissioning of heat tracing system included heating cable, accessories and thermal insulation
- Training courses for experts that working in the projects and who that interested heat trace knowledge
- Supply the highest quality brands of heat tracing cable from the most famous European and American manufacturers.

Base on valuable experience of the experts and engineers AHTG is ready to cooperate with the industrial and domestic sector regarding the heat tracing projects.

















INDEX

| Self-regulating heating cable | 1-10 |
|--|-------|
| Low temperature type | |
| AHTG 301 | 1 |
| AHTG 401 | 3 |
| AHTG 311 | 5 |
| Medium temperature type | |
| AHTG 411 | 7 |
| High temperature type | |
| AHTG 412 | 9 |
| Constant wattage heating cable | 11-18 |
| AHTG 106 Series connection constant wattage heating cables | 11 |
| AHTG 109 Self limited parallel constant wattage heating cables | 12 |
| AHTG 108 silicone constant wattage heating cables | 13 |
| AHTG 107 Flexible silicone constant wattage heating cables | 14 |
| AHTG Mineral Insulated constant wattage heating cables | 15 |
| AHTG Home use product | 20-30 |
| Mat type | |
| T mat | 20 |
| F mat | 21 |
| S mat | 22 |
| AHTG 112-1 | 23 |
| AHTG 113-1 | 24 |
| AHTG 114-1 | 25 |
| AHTG 110 Home use self limited constant wattage heating cables | 26 |
| AHTG 900 Series roof & gutter heating cables | 27 |
| AHTG 108-18walking &ramps heating cables | 28 |



Accessories









29-44





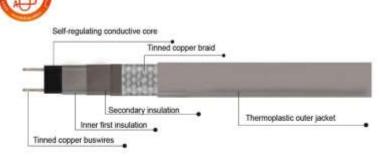








2 years warranty



Introduction

AHTG 301 Constructed of a semi-conductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperatures all along its length. As temperature increases, the heater's resistance increases, which lowers the output wattage. Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat. So thermostat is not necessary in some applications. It will never overheat or burnout even when overlapped. The cable can also be cut to any length. As the result, we got an energy efficient heating cable. This self-regulating heating cable is resistant to watery and inorganic chemicals and protected against abrasion and impact damage.

Technical Data

| Output Wattage | 16,25, 30, 40(w/m) |
|----------------------------------|----------------------|
| Maximum maintain temperature | 65C° |
| Maximum exposure temperature | 85C° |
| Minimum installation temperature | -40C° |
| Work voltage | 110V-120V / 220-240V |
| Max resistance of braid | ≤18.2 Ω /km |
| Bus wire gauge | 16AWG |
| Approvals | C€,EAC,EACEX,ATEX |

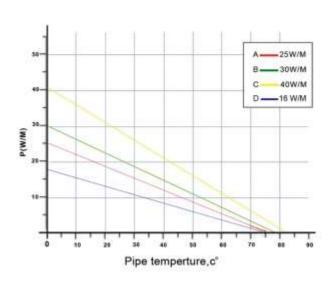


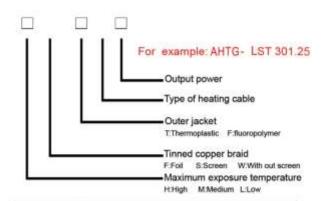


Application

AHTG 301 Self-regulating heating cable is ideally used for process temperature maintenance and frost protection of regular diameter pipelines, tanks, valves, flanges,roof & gutter de-icing, snow melting and other applications of low temperature working conditions.

It is suitable for hazardous area, and cable with outer thermoplastic jacket can also be used in hazardous area. The cable with UV stabilized thermoplastic elastomer outer jacket is provided to cover the braid for wet applications and exposure to the sun.





| Nominal po | wer Output @ +1 | 0 C, 230 Vac |
|------------|-----------------|--------------|
| Code | Туре | Value W/m |
| Α | 301.25 | 25 |
| В | 301.30 | 30 |
| С | 301.40 | 40 |
| D | 301.16 | 16 |

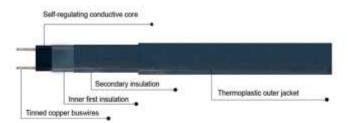
Flame retardant thermoplastic outer jacket protects against certain inorganic chemical solutions, it also protects against abrasion and impact damage.

| PART NUMBER | Output power +10C@(wird) | Maximum Maintain Temperature (Ĉ) | Max lenght @+10 C° 16/30A (m) | Max lenght @+0 C° 16/30A (m) | Max lenght @-20 C° 16/30A (m) | Dimension (mm) | Weight (kg/100m) |
|----------------|-----------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|-------------------|---------------------|
| AHTG.301.16 | 16 | 65 | 110/151 | 100/124 | 86/98 | 12.8*5.8 | 11.5 |
| AHTG-301.25 | 25 | 65 | 89/118 | 75/94 | 63/80 | 12.8 * 5.8 | 11.5 |
| AHTG-301.30 | 30 | 65 | 71/98 | 60/77 | 52/65 | 12.8 * 5.8 | 11.5 |
| AHTG- 301.40 | 40 | 65 | 62/72 | 52/60 | 45/53 | 12.8 * 5.8 | 11.5 |



Self-regulating heating cable AHTG 401

2 YEARS Warranty



Introduction

AHTG 401 Constructed of a semi-conductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperatures all along its length. As temperature increases, the heater's resistance increases, which lowers the output wattage.

Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat. So thermostat is not necessary in some applications. It will never overheat or burnout even when overlapped. The cable can also be cut to any length. As the result, we got an energy efficient heating cable.

This self-regulating heating cable is resistant to watery and inorganic chemicals and protected against abrasion

Technical Data

and impact damage.

| Output Wattage | 16, 30, 40(w/m) |
|----------------------------------|----------------------|
| Maximum maintain temperature | 65C° |
| Maximum exposure temperature | 85C° |
| Minimum installation temperature | -40C° |
| Work voltage | 110V-120V / 220-240V |
| Max resistance of braid | ≤18.2 Ω /km |
| Bus wire gauge | 16AWG |
| Approvals | CE |



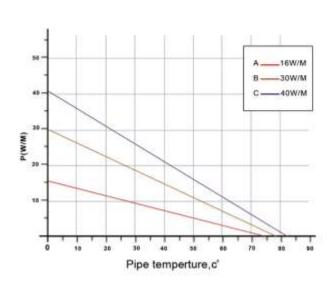


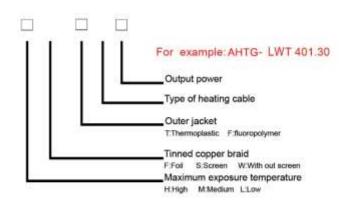


Application

AHTG 401 Self-regulating heating cable is ideally used for process temperature maintenance and frost protection of regular diameter pipelines, tanks, valves, flanges, roof & gutter de-icing, snow melting and other applications of low temperature working conditions.

The cable with UV stabilized thermoplastic elastomer outer jacket is provided to cover the braid for wet applications and exposure to the sun.

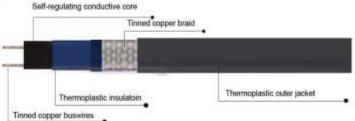




| Nominal power Output @ +10 C, 230 Vac | | | | |
|---------------------------------------|--------|-----------|--|--|
| Code | Туре | Value W/m | | |
| Α | 401.16 | 16 | | |
| В | 401.30 | 30 | | |
| С | 401.40 | 40 | | |

| PART NUMBER | Output power +10C@(w/m²) | Maximum Maintain Temperature (Ĉ) | Max lenght @+10 C° 16/30A (m) | Max lenght @+0 C" 16/30A (m) | Max lenght @-20 C° 16/30A (m) | Dimension (mm) | Weight (kg/100m) |
|----------------|-----------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|-------------------|---------------------|
| AHTG-401.16 | 16 | 65 | 110/151 | 100/124 | 86/98 | 10.7 * 4.5 | 7.25 |
| AHTG-401,30 | 30 | 65 | 71/98 | 60/77 | 52/65 | 10.7 * 4.5 | 7.25 |
| антд-401.40 | 40 | 65 | 62/72 | 52/60 | 45/53 | 10.7 * 4.5 | 7.25 |





2 years warranty

Introduction

AHTG 311 as temperature increases, the heaters resistance increases, which lowers the output wattage. Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat. so thermostat in not necessary in some applications.

It never over heat or burnout even when overlapped, the cable can also be cut to any lenght as the result, we got an energy efficient heating cable, with optional outer jackets, the heating cable is resistant to watery and inorganic chemical and protected against abrasion and impacted damage, typical application is heat trace designs and applications.



Technical Data

| Output Wattage | 11, 17, 23,31 (w/m) |
|----------------------------------|----------------------|
| Maximum maintain temperature | 65C° |
| Maximum exposure temperature | 85C° |
| Minimum installation temperature | -40C° |
| Work voltage | 110V-120V / 220-240V |
| Max resistance of braid | ≤18.2 Ω /km |
| Bus wire gauge | 18AWG |
| Approvals | CE,EAC,EACEX,ATEX |



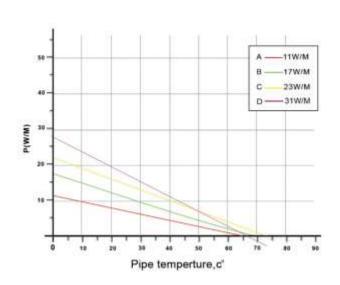


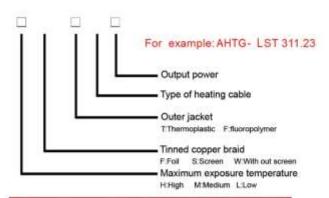


Application

AHTG 311 Self-regulating heating cable is designed for commercial and residential metal and plastic pipe process temperature maintenance and frost protection of regular pipelines, tanks, valves, flanges, roof & gutter de-icing and other applications of low temperature working conditions. A UV stabilized ther moplastic elastomer outer jacket is provided to cover the braid for wet applications and exposure to the sun.

It is suitable for hazardous area, then cable with thermoplastic outer jacket can also be used in hazardous area and to the sun.



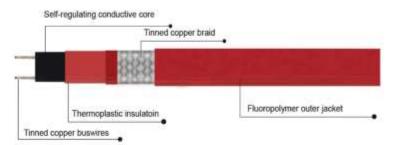


| Nominal pov | ver Output @ +10 | C, 230 Vac |
|-------------|------------------|------------|
| Code | Туре | Value w/m |
| Α | 311.11 | 11 |
| В | 311.17 | 17 |
| С | 311.23 | 23 |
| D | 311.31 | 31 |

Flame retardant thermoplastic outer jacket protects against certain inorganic chemical solutions, it also protects against abrasion and impact damage.

| PART NUMBER | Output power +10C@(w/m²) | Maximum Maintain Temperature (C) | Max lenght @+10 C° 16/30A (m) | Max lenght @+0 C' 16/30A (m) | Max lenght @-20 C" 16/30A (m) | Dimension (mm) | Weight (kg/100m |
|----------------|-----------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|-------------------|--------------------|
| AHTG - 311.11 | 11 | 65 | 120/145 | 121/140 | 108/120 | 10.4 * 5.3 | 8.4 |
| AHTG-311.17 | 17 | 65 | 115/120 | 106/120 | 95/115 | 10.4 * 5.3 | 8,4 |
| AHTG-311.23 | 23 | 65 | 75/100 | 72/91 | 65/84 | 10.4 * 5.3 | 8.4 |
| AHTG-311,31 | 31 | 65 | 51/65 | 45/61 | 40/55 | 10.4 * 5.3 | 8.4 |





2 years warranty

Introduction

AHTG 411 is Middle Temperature Self-regulating Heating Cable, Constructed of a semi-conductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperatures all along its length.

As temperature increases, the heater's resistance increases, which lowers the output wattage.

Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat. So thermostat is not necessary in some applications.

It will never overheat or burnout even when overlapped.

The cable can also be cut to any length. As the result, we got an energy efficient heating cable.

Technical Data

| Output Wattage | 35, 45, 60(w/m) |
|----------------------------------|----------------------|
| Maximum maintain temperature | 110C° |
| Maximum exposure temperature | 135C° |
| Minimum installation temperature | -40C° |
| Work voltage | 110V-120V / 220-240V |
| Max resistance of braid | ≤18.2 Ω /km |
| Bus wire gauge | 16AWG |
| Approvals | C€,EAC,EACEX,ATEX |

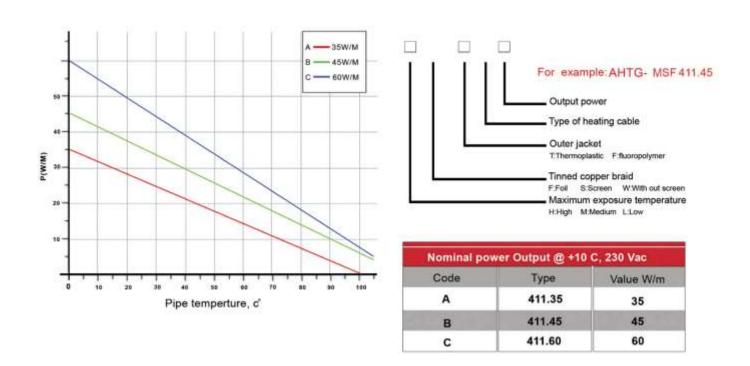






Application

AHTF 411 Self-regulating heating cable is ideally used for process temperature maintenance and frost protection of large diameter pipelines, tanks, valves, flanges, and other industrial applications of high heat loss issues. It is suitable for hazardous area, and cable with fluoropolymer outer jacket can also be used in hazardous area and corrosive area.



Fluoropolymer outer jacket is used for exposure to organic or corrosive working conditions or vapor may exist.

| PART NUMBER | Output power +10C@(w/m²) | Maximum Maintain Temperature (C) | Max lenght @+10 C" 16/30A (m) | Max lenght @+0 C° 16/30A (m) | Max lenght @-20 C° 16/30A (m) | Dimension (mm) | Weight (kg/100m) |
|----------------|-----------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|-------------------|---------------------|
| AHTG-411.35 | 35 | 110 | 75/100 | 65/90 | 45/60 | 13.3 * 6.1 | 12.5 |
| AHTG- 411.45 | 45 | 110 | 60/85 | 50/75 | 35/50 | 13.3 * 6.1 | 12.5 |
| AHTG-411.60 | 60 | 110 | 50/70 | 40/60 | 30/45 | 13.3 * 6.1 | 12.5 |



Self-regulating conductive core

Tinned copper braid

Fluoropolymer insulatoin

Tinned copper buswires

2 years warranty

Introduction

412 Series Self-Regulating Heating Cables provide the most variety in heat trace designs and applications.

Constructed of a semi-conductive heater matrix extruded between parallel bus wires, a self-regulating cable adjusts its output to independently respond to ambient temperature all along its length.

As temperature increases, the heater's resistance increases, which lowers the output wattage.

Conversely, as the temperature decreases, the resistance decreases and the cable produces more heat.

So thermostat is not necessary in some applications. It will never overheat or burnout even when overlapped.

The cable can also be cut to any length. As the result, we got an energy efficient heating cable.

With optional outer jackets, the heating cable is resistant to watery and in organic chemicals and protect against abrasion and impacted damage

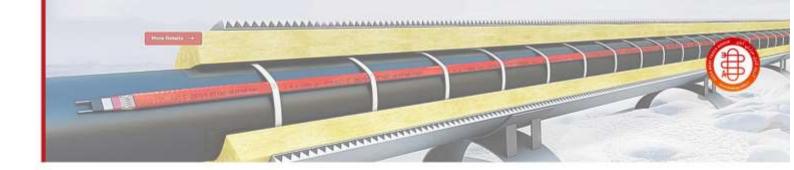
Materia for inner and outer insulation use fluoropolymer.

Technical Data

| Output Wattage | 30, 45, 60(w/m) |
|----------------------------------|------------------------------|
| Maximum maintain temperature | 120C° |
| Maximum exposure temperature | 200C° |
| Minimum installation temperature | -40C° |
| Work voltage | 220-240V |
| Max resistance of braid | ≤18.2 Ω /km |
| Bus wire gauge | 16AWG |
| Approvals | Exe IIC Gb T4 Ext IIIC Db T4 |





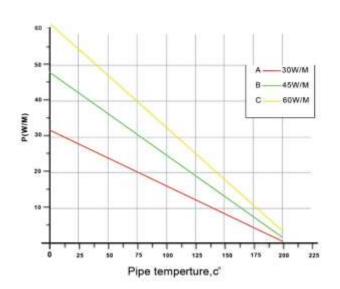


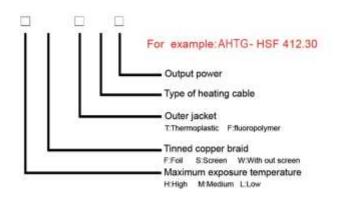
Application

AHTG 412 series self-regulating heating cables are suitable for: defrosting and temperature remaintenance of pipes tanks valves, flanges, roof melting and snow melting, and heating requests that reguire high power output.

Also suitable for: applications in explosion-proof and applications in explosion-proof and corrosive environments.

AHTG 412 series self-regulating heating cable can with stand the highest exposure temperature up to 215 °C (419 °F) and the highest maintain temperature can reach 125 °C (257 °F).





| Nominal pov | ver Output @ +10 | C, 230 Vac |
|-------------|------------------|------------|
| Code | Туре | Value w/m |
| Α | 412.30 | 30 |
| В | 412.45 | 45 |
| С | 412.60 | 60 |

| PART NUMBER | Output power +10C@(w/m) | Maximum Maintain Temperature (C) | Max lenght @+10 C" 16/30A (m) | Max lenght @-20 C 16/30A (m) | Max lenght @-40 C" 16/30A (m) | Dimension (mm) | Weight (Kg/100m) |
|----------------|----------------------------|--|-------------------------------------|------------------------------------|-------------------------------------|-------------------|---------------------|
| AHTG-412.30 | 30 | 120 | 85/114/130 | 69/100/114 | 62/88/103 | 10.6*4.6 | 11- 12 kg |
| AHTG-412.45 | 45 | 120 | 70/82/90 | 49/75/82 | 44/67/73 | 10.6*4.6 | 11- 12 kg |
| AHTG-412.60 | 60 | 120 | 50/64/70 | 38/58/64 | 35/53/59 | 10.6*4.6 | 11- 12 kg |



AHTG 106

2 years warranty

AHTG 106 Series connection constant wattage heating cable use the core conductor as the heating element, when the core conductor connect to power supply, the core conductor will send out joule heat, same as they are of the entire cable length, the heating value of each unit is the same.

This will not result in a situation that the power in the terminal end is lower than it is in the beginning end as the heating cable length increases. So this type is suitable for long pipe-line and large diameter pipeline's heat tracing and heat preservation. Power supplied by one power point.

For Chemical Or Natural Gas Pipeline Series Resistance Heating Cable.

Tecnical data

Min. Installation Temperature -40°C

Rated Voltage 110V-120V 220V-380V 660V 1100VMax.

withstand temperature J3 - 205°C,J4 - 250°C

Dielectric strength 2 x nominal voltage + 2500VOuter

Dimensions 5.9*12.5mm Insulation resistance ≥750MΩ/Km

Certifications CE,EAC,EACEX,ATEX

| Part Number | Core conductor's structure | Cross section mm ² | Resistance M/km@20 C |
|-------------|----------------------------|-------------------------------|----------------------|
| AHTG-J3.3.0 | 19*0.45 | 3 | 5.83 |
| AHTG-J3.4.0 | 19*0.52 | 4 | 4.87 |
| AHTG-J3.5.0 | 19*0.58 | 5 | 3.52 |
| AHTG-J3.6.0 | 19*0.64 | 6 | 2.93 |
| AHTG-J3.7.0 | 19*0.69 | 7 | 2.51 |
| AHTG-J4.3.0 | 19*0.45 | 3 | 5.83 |
| AHTG-J4.4.0 | 19*0.52 | 4 | 4.87 |
| AHTG-J4.5.0 | 19*0.58 | 5 | 3.52 |
| AHTG-J4.6.0 | 19*0.64 | 6 | 2.93 |
| AHTG-J4.7.0 | 19*0.69 | 7 | 2.51 |

7 layer parallel constant wattage self limited heating cable



AHTG 109

2 years warranty

AHTG 109 Parallel constant wattage self limited heating cable can be used for pipe and equipment freeze protection and process temperature maintenance requiring high power output or high temperature exposure. This type provides an economical alternative to self-regulating heating cable but requires more skill for installation and more advanced control and monitor system.

Constant wattage heating cables can provide process temperature maintenance up to 150°C and can withstand exposure temperature up to 205°C with power on.

Structure

AHTG 109 Single phase constant wattage heating cable used to freeze protection, heat preservation for all kinds of pipelines and instruments. Application such as factory Zone 1 Zone, 2 explosive gas atmosphere area.

Working principle

Two paralleled stranded copper wire as the bus wires with insulation layer FEP, then wrap the nickel-chromium alloy as the heating wire connect with bus wires at regular intervals, form the parallel resistance, finally covered with insulation jacket FEP.

When the bus wires power on, each parallel resistance begins to heat, this form a continuous heating cable.

Tinned copper stranded



- 1. Wire
- 2. FEP insulation layer
- 3. FEP insulation layer
- 4. Ni-Cr alloy wire
- 5. PEP insulation layer
- 6. Tinned copper Metal braid
- 7. FEP outer sheath

Rated Voltage: 220V

Normality insulation resistance: > 20M ohm

Dielectric strength: 2000V 50Hz/l min

Max exposure temperature: 205 0 c

Protection level: IP54

| AHTG CODE | Rated power | Max usage | Max Maintence Temperature(C) | Sheath color |
|-------------|-------------|-----------|---------------------------------|--------------|
| AHTG 109.10 | 10 | 210 | 150 | Black |
| AHTG 109.20 | 20 | 180 | 120 | Orange |
| AHTG 109.30 | 30 | 150 | 90 | Blue |
| AHTG 109.40 | 40 | 140 | 65 | Red |



2 years warranty

Application

Ground heating of building, refrigerators and were houses, Chute heating, gutter and roof defrosting. General purpose up to 200 °C

Description

Good temperature resistance. The whole body uses silicone rubber as the insulation (including power cord), and work environment temperature is -60 to ±200 C.

Good heat-conducting property: Generate heat energy by passing to directly conduct heat, high thermal efficiency, capable of heating in short time to achieve the effect.

Reliable electrical property: when each heat tape leaves the factory, conduct strict DC resistance, soaking high pressure, insulation resistance and other tests to ensure quality.

Firm structure, flexibility and easy bending: combine the whole cooling end section, no binding point, easy installation. Strong design ability: heating length, lead wire length, rated voltage and power are determined by users.

Product Structure

- 1. Heating wires are two tinned copper wires with section of 0.75 mm².
- Isolated layer is made of silicone rubber by extrusion.
- High strength alloy wire spiral and silicon rubber surface are the heating center.
- Airtight cladding made by extrusion method.
- 5.Immergence withstand voltage 3500 V AC
- 6.Insulation Resistance ≥ 200 mm²







Flexible silicone heating cable

AHTG 107

2 years warranty



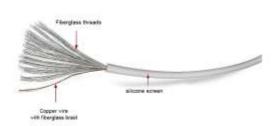
AHTG 107 silicone heating cable is of good waterproof performance, can be used for heating, heat tracing and heat preservation of pipelines, pots and tanks of industrial equipment or laboratory in moist places without explosive gas.

- It is mainly composed of nickel-chromium alloy wires and insulating material, and has fast heating speed, high heat efficiency and long service life.
- fiber glass core is wound with electric heating wires, silicone rubber is used as main insulation, the heat resistance performance is excellent, and the insulation performance is reliable.
- · It has great flexibility, and can be directly wound on a to be heated device, with good contact and uniformity heating.

Application:

- 1.Refrigerators, air conditioners, freezers defrost
- 2. Rice cooker heat preservation
- 3. Electric blanket
- 4. Electric heating cushion
- 5. Electric massage chair
- 6.Medical and beauty equipment
- 7. Electric thermal clothing
- 8. Electric heating shoes
- 9.Bath pool heat
- 10.Footbath heat
- 11. Pipeline and tank insulation antifreeze
- 12.Car window heat and etc.

| Out Diameter(mm) | 2 - 5 |
|------------------------|------------------|
| Heating wire material | Nichrome or CuNi |
| Insulating Layer | Silicone rubber |
| Resistance (ohm/m) | 10 - 30 |
| Temperature (Č) | 30 - 180 |
| Voltage | 220 V |
| Insulation resisitance | >100MΩ |









MI cables are made in special manufacturing process taking a single or several heating alloy as the heating source, electric melting crystal magnesium oxide of high purity and high temperature as the thermal insulator and seamless stainless steel or copper tube as the sheath. PE sheath or that with low smoke and zero halogen can be added in the place exposed in strong corrosion.

· MI heating cables with stainless steel sheath

MI heating cables with stainless steel sheath can be used in the environment of high temperature and great heating power (up to 269 w/m). Its maximum temperature resistance can be up to 600 C, the resistance of conductor is within 28000-19.2Ω/km.

MI cables are of excellent mechanical strength and corrosion proof.

· MI heating cables with copper sheath

MI heating cables with copper sheath can be used in the environment of high temperature and for long pipe transmission. Its maximum temperature resistance can be up to 250 C, the resistance of conductor is within $480-0.5\Omega/km$; as for those to be corrosion protected or buried underground, HDPE sheath (MIHC) shall be added, the maximum temperature resistance of MIHC can be up to 90 C; MI cables are of excellent mechanical strength.

MI heating cables with copper nickel alloy sheath

MI heating cables with copper nickel alloy sheath can be used in the environment of high temperature and for long pipe transmission. Its maximum temperature resistance can be up to $400 \, \text{C}$, the resistance of conductor is within $28000\text{-}19.2\Omega/\text{km}$; MI cables are of excellent mechanical strength and corrosion proof product standards.

Comply with IEC800 (92) Heating Cables with a Rated Voltage of 300/500 V for Comfort Heating and Prevention of Ice Formation for cables with maximum heating temperature less than 250 C and comply with the enterprise standard for those above 250 C.

Tolerance of resistance: ±10%

Dielectrically property – withstand voltage of heating cable: 1200VAC/1min

Insulation resistance – test of finished products: 100MΩ/500VDC

Continuity of sheath - the insulation resistance shall be tested after soaking the whole heating cable in water for

12h (including joints), and the value must be 50MΩ/500VDC at least



Product Structure



- AHTG MI \$5321 2 230 Example: AHTG MI-\$5321-2-230

 Voltage (v)
 230, 300, 600

 Conductor type
 One(1) or Two(2) Conductor
 Outer sheath
 \$5321, 825 Alloy,Copper,Copper-Nickel Alloy

 AHTG Code
- 1. Outer Sheath: SS321, 825 Alloy, Copper, Copper-Nickel Alloy
- 2. Mineral insulation
- 3. Alloy resistance wire

Features

- Constant Wattage Series Resistance Heating Cable Sets
- Process Temperature Maintenance up to 900 C°
- Maximum Exposure Temperature 648 C (Power Off)
- · Corrosion Resistant Stainless Steel Sheath
- · Factory Assembled Cable Sets Ready for Installation
- · Fully Annealed Sheath allows Field Bending
- · For Use on Metallic Pipes Only





Product Construction 1 One or two conductor Heating elements 2 First insulation Mgo provides insulation of the resistance wire for voltage up to 593C 3 Inner jacket This alloy has excellent resistance to pitting, chloride-stress, acid and alkali corrosion. 4 Outer jacket For corrosive environments or extra ruggedness when embedded in concrete.



There are many advantages when using Mineral Insulated (MI) Cable as bellow:

- · Installation: MI cables are round and are annealed, making them easy to form and to install.
- Heat Output: MI cables are constant output, providing uniform heat over the entire length of the cable.
 So MI cables are best choice Especially for heat trace of transmission pipes that have high-viscosity and high-speed materials.
- Inrush: MI cables are constant wattage, eliminating the need to oversize the breakers to allow for inrush current.
- Terminations: MI cables are terminated in a controlled Factory environment and tested to insure their integrity and that they are moisture proof.
- Fire Safety: MI cables are manufactured from nonflammable materials and damaged or defective product will not
 cause a fire or safety concern.
- Degradability: MI cables are made on inorganic materials that will not degrade.
- · System Life: MI cables have a life expectancy of 25 to 30 years. But Self-Regulating cables have a life expectancy
- Corrosion: MI cable consists of one or two solid conductor heating elements, embedded in a highly compressed
 magnesium oxide or 321and higher stainless steel base on NACE standard, So MI cables used has a high resistance
 to corrosive and acidic environments compared to other cables.





AHTG T- mat

2 years warranty

Introduction

T-mat underfloor heating mat used a twin conductor heating cable for easy installation and this mat is with zero EMF.desinged for installation into thin adhesive beds, leveling compounds or this screed beds beneath tiled and wooden floor finish.

150w/m underfloor heating mats are suitable as a primary heating source providing you adequate insulation. These are our most commonly used mats for kitchen, dinig rooms, larg bathroom and most other areas with tiled floors. 200w/m underfloor heating mats are generally used in areas where high heat loss is a problem, such as conservatories, these mats are only suitable for under-tiled floors, giving a 25% faster warmer up time.

Features

- Zero EMF
- · Self-adhesive mat
- One cold lead 2.5 meter
- Flexible and 100% screened
- . Twin conductor heating cable



Technical Data

| Cable construction | Twin conductor |
|----------------------|--|
| Conductor material | Solid heating core |
| Insulation material | FEP |
| Insulation optional | TPEE-XLPE |
| Shield | Aluminum-plastic tape or tinned copper wires |
| Protective jacket | PVC/FEP |
| Connector | Out splice |
| Outer diameter | 3.6mm |
| Rated voltage | 230Vac |
| Power output | 150w/m², 200w/m² |
| Resistance tolerance | +10% / -5% |
| Certifications | C€ HL ® |



F-mat underfloor heating mats consist of twin conductor heating cable with fluoropolymer insulation and embed in a reinforced aluminium foil mat.the mat total thickness is ultra-thin, decreasing the floor height and increasing the comfort level.

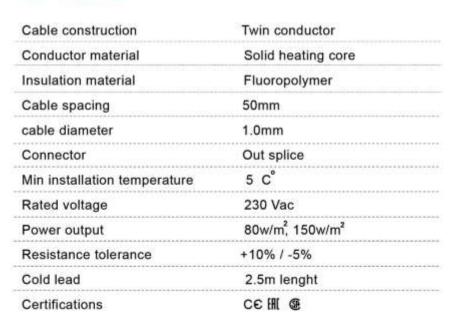
F-mat underfloor heating mats can be turned to achieve the required floor coverage and multiple mat can be join toghether to cover large areas when fitting underfloor heating, a suitable insulation should always be used (especially over concrete sub floors).

80w/m and 150w/m mats are provided for option, the 150w/m electric heating system can be used as a primary heat sourch, just for floor warming.

Features

- Fully earthed
- Ultra-thin
- Twin conductor heating cable
- One cold lead, 2.5 meter
- Flexible installation









AHTG S- mat

2 years warranty

S-mat underfloor heating mat is designed to be as thin as possible and 100% screend, the cable is designed for installation into thin adhesive beds, leveling compunds or thin screed beds beneath tiled and wooden floor finish. 100 w/m² underfloor heating cable provides a highly economical floor warming system and is used to cover larger areas. 100 w/m² is not suitable as a primary heating source, only to be used as secondary heating for under tiled floors.

150w/m² underfloor heating cable is suitable as a primary heating sourch providing you adequate insulation.

These are our most commonly used mats for kitchen, dining rooms, large bathrooms and most other areas with tiled floors.

- · Single conductor heating cable
- Flexible installation
- Emit zero EMF (electromagnetic fields)
- Dorable construction
- . Two cold leads, 2.5 meters each

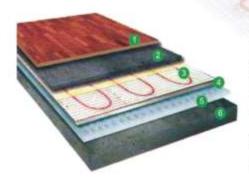


Technical Data

| Cable construction | Single conductor |
|----------------------|--------------------|
| Conductor material | Solid heating core |
| Insulation material | Fluoropolymer |
| Shield | Copper wire |
| Protective jacket | PVC |
| Connector | Out splice |
| Outer diameter | 2.6mm |
| Rated voltage | 230Vac |
| Power output | 100w/m², 150w/m² |
| Resistance tolerance | +10% / -5% |
| Certifications | C€ HI ® |

AHTG 112

2 years warranty



- 1. Tile or floor
- 2. 20 mm cement
- 3. Heating mat
- 4. Reflective film
- 5. 20 mm insulation board
- 6. Subfloor

Product Picture





| Structure | Single Conductor Heating Mats | Double Guide Heating Mats |
|-----------------------------|--|--|
| Glass net | 140 g/m² back apply the double-sided adhesive tape | 140 g/m² back apply the double-sided adhesive tape |
| Thickness | 3 - 5mm | 3 - 5mm |
| Width | 500 mm | 500 mm |
| Unit area power | 100 w/m, 150 w/m | 100 w/m², 150 w/m² |
| Voltage | 220 V(customizable) | 220 V(customizable) |
| Cold line | 2*2 m | 1*2 m |
| Cable structure | Single guide | Double conductance |
| Cable diameter | 3mm | 4mm |
| Cable insulation | Teflon (FEP) | Teflon (FEP) |
| Cable sheath | PVC or customizable | PVC or customizable |
| Cable shielding | Copper foil+Copper wire | Copper foil+Copper wire |
| Maximum working temperature | 70 C* | 70 C* |

2 years warranty



Advantage

- 1.It saves cost and is easy to install
- 2.Aluminum foil material is safe and reliable, which completely avoids the damage to the cable structure and service life of poor quilty aluminum plates.
- 3. The heating speed is fast, the temprature is average, the use effect is cimparable to the traditional dry installation of electric heating.
- 4. The insulating layer is **FEP** material, which can be widely used in combination with all kinds of floor materials, carpet and other surface materials.



| Structure | Double conductor heating mat |
|-----------------------------|---------------------------------|
| Model | FMAT 150 |
| Cable diameter | 1.1 m.m ⁸ |
| Power supply voltage | 220V |
| Langth of power cord | 2m |
| shielded grounding | Aluminum foil |
| Heating conductor | Alloy resistance wire |
| Insulation | FEP |
| Maximum working temperature | 70 C° |





Advantages

Cost savings

Saves your annual cost of snow removal and deicing chemical

Time savings

saves your time and effort spent on managing snow manually.

Minimizes personal injury risk

Provides peace of mind by eliminating ice related accidents at your home or office.

Preserves your property

Slows down surface decay due to damage caused by snowplows, shovels, salting and other chemical snow preventives.

| MIN | |
|-----|--|
| | |
| 7 | |
| | |

| Product structure | Technical parameter |
|-----------------------------|-------------------------------|
| Cable construction | Two conductor |
| Rated voltage | 220V |
| Output power (mats) | 300 w/m |
| Heating element size (mats) | Length 2- 20 m *width 0.5m |
| Cable diameter | 7.8 mm |
| Conductor insulation | Fluoropolymer XLPE |
| Outer insulation | PVC |
| Max, insulation temp | 105 C |
| Min, insulation temp | 5 C° |
| Cold lead | 2.5 M |

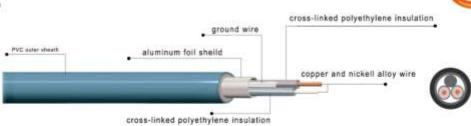


Constant wattage heating cable



AHTG 110

2 years warranty



There are two heating cores inside the double-conductor heating cable. The tail of the heating connected to form a loop. In construction, only the head end is connected with the power supply and can be placed arbitrarily according to the specific situation, thus greatly reducing the difficulty of construction.



| AHTG CODE | Power (w) | Voltage (v) | Standard lenght (m) | power per meter | Total resistance |
|--------------|--------------|----------------|---------------------|-----------------|------------------|
| AHTG 110-1 | 3300 | 220 | 194.1 | 17 | 14.7 |
| AHTG 110- 2 | 2800 | 220 | 164.7 | 17 | 17.3 |
| AHTG 110-3 | 2600 | 220 | 152.9 | 17 | 18.6 |
| AHTG 110-4 | 2400 | 220 | 141 | 17 | 20.2 |
| AHTG 110- 5 | 2100 | 220 | 123.5 | 17 | 23.0 |
| AHTG 110- 6 | 1700 | 220 | 100.0 | 17 | 28.6 |
| AHTG 110-7 | 1370 | 220 | 80.6 | 17 | 35.3 |
| AHTG 110-8 | 1250 | 220 | 73.5 | 17 | 38.7 |
| AHTG 110-9 | 100 | 220 | 58.6 | 17 | 48.4 |
| AHTG 110- 10 | 840 | 220 | 49.4 | 17 | 57.6 |
| AHTG 110- 11 | 700 | 220 | 41.12 | 17 | 68.1 |
| AHTG 110- 12 | 600 | 220 | 35.3 | 17 | 80.7 |
| AHTG 110- 13 | 500 | 220 | 29.4 | 17 | 96.8 |
| AHTG 110- 14 | 400 | 220 | 23.5 | 17 | 121.0 |
| AHTG 110- 15 | 300 | 220 | 17.6 | 17 | 161.1 |

Constant power underfloor double condudctor heating cable



2 years warranty



AHTG 108-18 underfloor heating cable is designed to be as thin as possible, diameter is only 3.6mm.

It has two kinds of power outputs, ensure the economical and energy saving features and decrease the floor level to the maximum extent. Designed for installation under tile, wood floor, marble flooring, usually set up at 100 w/m, 150 w/m and 200 w/m²

Product advantages

- 1.Durable and strong structure
- 2. High water-proofness, IP68
- 3.Long working life
- 4.2 years warranty
- 5.Small size ,no increase in floor thickness
- 6.100% screened with Zero EMF
- 7.100% tested before delivery
- 8.Free of maintenance



Tecnical data

| Ouput | 12W/m,18W/m |
|----------------------|---|
| Rated Voltage | 230V |
| Outer Jacket | PVC Outer |
| dimensions | 3.6 mm |
| Insulation optional | TPEE for T-cable(T), XLPE for T-cable(X |
| Insulation material | FEP |
| Cable structure | Twin conductor |
| Shield | Aluminum-plastic tape |
| Cold lead | 2.5m |
| lengthConductor | Solid heating core |
| Connector | Out splice |
| Resistance tolerance | +10%/-5% |
| Certifications | CE,EAC,TUV,CSA |



2 years warranty

AHTG 900 Series heating cables is designed for both roof and gutter or ground application.

The twin conductor heating cable for easy installation with zero EMF. Fully screened twin conductor cable with a tough black UV protected PVC outer sheath, to install in out door application such as roof and gutter or ground application. Its round profle makes it simple to istall in outdoor applications such as roof and gutter or ground application.

Technical Data

| Cable construction | Twin conductor |
|----------------------|--|
| Conductor | Solid heating core |
| Insulation | XLPE (Cross linked PE) |
| Shield | Aluminum-plastic tape and tinned copper wire |
| Protective jacket | PVC |
| Connector | Out splice |
| Outer diameter | 6-6.5 mm |
| Rated voltage | 230Vac |
| Power output | 20W/m, 30W/m |
| Resistance tolerance | +10% / -5% |
| Certifications | c€ |

Product advantages

- 1.Durable and strong structure
- 2.High water-proofness. IP68
- 3.Long working life
- 4. Small size ,no increase in floor thickness
- 5.100% screened with Zero EMF
- 6.100% tested before delivery
- 7.Free of maintenance
- 8.Anti-UV

900-30—50M 900-20—150M 901-30—100M



AHTG 902-18 heating cable; in winter, when the accumulated snow on walkways, parking garage, loading ramps, stairways and other areas, it will bring problem to people's life.

Electric snow melting systems can keep walkways, parking garage, loading ramps, stairways and other areas free of snow and ice to help prevent slip hazards. Electric snow melting systems provide surface snow melting and anti-icing for concrete surfaces and pavers.

Technical Data

| Cable construction | Twin conductor |
|----------------------|--|
| Conductor | Solid heating core |
| Insulation | XLPE (Cross linked PE) |
| Shield | Aluminum-plastic tape and tinned copper wire |
| Protective jacket | PVC |
| Connector | Out splice |
| Outer diameter | 5.5-6 mm |
| Rated voltage | 230Vac |
| Power output | 20W/m, 30W/m |
| Resistance tolerance | +10% / -5% |
| Certifications | CE |

Product Advantages

- * Twin conductor heating cable
- * 100% screened
- * In Coil packaging, cut as needed
- * Zero EMF

902-18







AHTG Code: 1020

LCD thermostat (button type)

Technical data

Voltage: 220V / 230V, 5060/HZ

Boundary dimension: 90×86×45mm

Temperature control range: 5-60 C°

Temperature control accuracy: ±1 C°

Maximum load current: 16A Housing protection: IP20

LCD slanting interface, easier to load WIFI control (OPT), Carrying a temperature sensor.



AHTG Code: 1030

European standard thermostat (touch type)

Technical data

Voltage: 220V / 230V, 5060/HZ

Boundary dimension: 90×86×45mm

Temperature control range: 5- 90 C°

Temperature control accuracy: ±1 C°

Maximum load current: 16A Housing protection: IP20

LCD slanting interface, easier to load WIFI control (OPT), Carrying a temperature sensor.



AHTG Code: 1040

Mechanical thermostat (knob type)

Technical data

Voltage: 230V (AC 110V / AC 24V)
Boundary dimension: 86×86×53mm
Temperature control range: 5-40 C°
Temperature control accuracy: ±1 C°

Maximum load current: 16A Housing protection: IP20



Pipe di-icing with thermostat

AHTG 1110

2 years warranty



Heating cable with temperature sensor is composed of heating cable, a temperature switch a power cord and a power plug.easy to install, convenient and fast. It is household test tubes it is suitable for metal pipes and plastic pipes.

Product Picture





| AHTG CODE | Electric tropics length (m) | Cold line length (m) |
|-----------|-----------------------------------|----------------------------|
| AHTG 1110 | 1 | 1.8 |
| AHTG 1111 | 2 | 1.8 |
| AHTG 1112 | 4 | 1.8 |
| AHTG 1113 | 8 | 1.8 |
| AHTG 1114 | 12 | 1.8 |
| AHTG 1115 | 14 | 1.8 |
| AHTG 1116 | 18 | 1.8 |
| AHTG 1117 | 24 | 1.8 |
| AHTG 1118 | 36 | 1.8 |
| AHTG 1119 | 48 | 1.8 |

Pipe di-icing

AHTG 1110-A

2 years warranty





Line sensing thermostat

Stand-Off



2 years warranty



AHTG 1000 , line sensing (pipe mounted) thermostat ideal for freeze protection and process temperature maintenance applications.



| Temperature range | 0 - 40 °C, 30-90 °C, 0-300 °C |
|----------------------|--------------------------------|
| Capillary lenght | 120 (cm) |
| Dimension (mm) | 130*130*90 |
| Protection degree | IP67 |
| Bracket type | AHTG 820.110, AHTG1616-10 |
| Switching capability | 220 V 10 A max, 110 V 16 A max |

| Stand-Off | | | - 6 - |
|-------------------|------------------|------------------|------------------|
| AHTGCODE | 1027-330 | 1032-220 | 820-110 |
| External diameter | 27mm | 32mm | 20mm |
| Internal diameter | 27mm | 23mm | 16mm |
| Height diameter | 100mm | 100mm | 80mm |
| Material | Galvanized metal | Galvanized metal | Galvanized metal |



| | | | | 90 U |
|-----------------|------------------|------------------|--------------|--------------|
| AHTG CODE | AHTG 1616-10 | AHTG 1313-10 | AHTG 147-10 | AHTG 136-28 |
| Length diameter | 160mm | 130mm | 140mm | 130mm |
| Width diameter | 160mm | 130mm | 70mm | 60mm |
| Height diameter | 100mm | 100mm | 100mm | 280mm |
| Material | Galvanized metal | Galvanized metal | Carbon steel | Carbon steel |

Ex-Capillary thermostat

AHTG 1000Ex

2 years warranty



The capillary thermostat **AHTG1000Ex** is approved for use in hazardous areas Zones 1 and 2 for gas and Zones 21 and 22 for dust as a surface thermostat on pipes and vessels.

There are different temperature ranges possible. The material of the capillary tube is stainless steel and the rugged enclosure is made of aluminium.

Applications:

Industrial applications, Use in hazardous areas, Heat tracing on pipes, valves and vessels, Oil & gas industry



Technical data

IP rating IP 66

Ambient temperature 0 up to 40 °C [CT], 30 °C up to 90 °C [CT(2)],0 °C up to 300 °C

Switching capacity 16 A at 230 V [CT] / 10 A at 400 V [CT(2) only]

Switching differential 1pol. [CT], 1 pol., changeover contact [CT(2)]

Switching contact 1pole

Capillary tube Stainless steel

Length of capillary tube 1.5 m

Metrial enclosure coated aluminium

Bending radius capillary tube 5 mm

Cable entrance 1 x gland M20, clamping range 10-14 mm1 x thread M 20 x 1.5

Ex-Classification II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80°C Db Ta -32°C...+50°C [CT]

Ta -50°C...+50°C [CT(2)](Important: Classification is subject to modification depending

on the cable entrances used by the customer!)



Ambient thermostat AHTG 1050

2 years warranty

AHTG 1050 Ambient thermostat is ideal for domestic sector specially for measuring the temperature and humidity in order to implement an optimal heat tracing system for the walk ways, ramps, roofs, etc.

| Temperature range | - 40 _ 80 C |
|-------------------|---------------------------|
| Humadity range | 0-100% |
| Dimension (mm) | 250*350*150 - 300*400*170 |
| Protection degree | IP65 |
| Contactor | 25A |
| Relay output | 7A |





General characteristics

- · Galvanized or stainless steel sheat.
- Heating element of Nickel-Chrome high quality material, wound around mica insulator adaptable to high temperatures (up to 500°C depending on constructions)
- · Possibility of making entries for thermocouple, links or holes as per the client's needs
- · Normal execution with screw closure or bolt flange with Allenscrew.
- Different types of electric connection: Screws Plugged in Flexible leads Ceramic connector.
- Optional executions:
- Articulated with hinge.
- Double thermic insulation.
- Air chamber.
- With ceramic or mica support or shielded heating elements.
- · Sizes, watts and volts as per technical characteristics and requirements
- · Explosion proof enclosure type









AHTG 1001-F silicone falexible heating bands are thin, light, water and ozone proof and allow you to heat metal surfaces which could not heat easily.

AHTG 1001-F silicone heating bands stick to the drum, tanks or capsule enclosure of elastic springs located on the ends. Due to its flexibility, the heating band adapts to the surface of the drum, thus improving on the performance of conventional clamps because it avoids the creation of air bubbles and dust that act as thermal insulators.

General characteristics

- Temperature range: up to +180 °C in continuous use.
- Adjustable thermostat 20 °C to 180 °C protected by silicone.
- Silicone connection cable 2000 mm long.
- Material support: Rubber, silicone plus fiber glass with laminated metallic iron strap.
- Standard voltage ~230 V
- Other specification can be provided based on customer need



Infrared Heaters

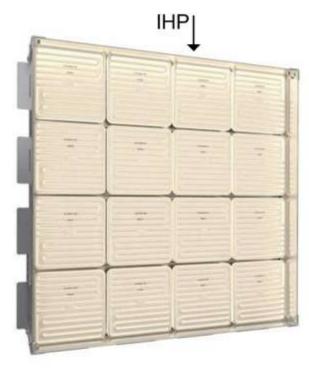
AHTG 1001-H



The ceramic heater is an efficient and powerful heater that provides long and medium wavelength infrared radiation. The ceramic heater is manufactured using a specialised process that requires the alloying of an electrically resistive wire, which is fused to the ceramic body.

Subsequently, the ceramic body is given a layer of enamel to protect it from humidity. Moreover, it protects the heater from corrosive and atmospheric attack. In this way ceramicnheating elements optimise the characteristics of maximum absorption, operating at temperatures which range from 300°C to 750°C, with the emission of wavelengths ranging from 3 to 7 microns.

The ceramic heater has been designed so as to offer a very high efficiency (more than 85% in appropriately designed systems), flexibility of arrangement, interchangeability for maintenance, long life, and uniformity from heating element to heating element. The ceramic heating elements are the chosen heaters in the majority of elemets





GRP power connection box

AHTG 804

2 years warranty

Part Number:

AHTG 804

Material:

GRP

Dimensions:

110mmx110mmx60mm

Color:

RAL 1003, Signal yellow

Entries:

One standard M20 one M25



Ex power connection box

AHTG 804 Ex

2 years warranty

Part Number:

AHTG 804 Ex

Material:

GRP

Dimensions:

120mm *120mm *85mm

Color:

RAL 1003, Signal dark blue

Entries:

One standard M20 one M25

Ip degree:

IP69

Maximum rated Voltage: 500V

Maximum rated Current: 400V

Ex II 2 G D Exe IIC T6 ID A21 T85C





RMF three pieces unions Fixed male/Turning female - IIC



RMF series three pieces unions for IIC gas group enable an independent rotation and connection between pipes, enclosures or different instruments.



















| Classification: 2014/34/UE | (| Proup II | Calegory 2GD |
|-------------------------------|--|-----------------|---|
| Installation: EN 60079.14 | zone 1 - | zone 2 (Gas) | zone 21 - zone 22 (Dust) |
| Marking: | C€ 0722 (II 2 GD Ex db IIC Gb Ex tb IIIC Db IP66/67 (R) | | |
| | ATEX | CESI 99 ATEX 03 | 34U |
| Certification: | IECEx | IECEx CES 10.00 | |
| | TR CU | AVAILABLE | risto con be developed at www.allit.um |

Standards:

CENELEC EN 60079-0: 2012+A11:2013, EN 60079-1: 2014, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE

IEC60079-0: 2011, IEC60079-1: 2007-04, IEC60079-31: 2008 Directive RoHS 2002/95/CE

Degree of protection:

P66/67

| Operating temperature: | | | | |
|----------------------------|---|----------|------------------------|--|
| Three pieces unions series | Materials | Gaskets | Ambient temperature | |
| RMF | Galvanised steel (G), Nickel-plated brass (B) | Silicone | -20°C +60°C | |
| RMFS | Stainless steel (5) | Silicone | -60°C +60°C | |

Certificates are available on www.effit.com





Resin type end seal AHTG 201 E-03



2 YEARS Warranty

AHTG 201 E-03 is designed for all kind of electrical heating cables up to 205 Celsius degree.

The end kits employ easy to use heat shrinkable tubing with an adhesive, that when heated forms a semiflexible moisture proof encapsulation.

the termination can be installed directly on the pipe. One end seal kit is required for each termination.

| AHTG 201 E-03 | | |
|---------------|--------------------------|--|
| Application | sealant for all type | |
| Application | of cable up to 205 C | |
| 2440 | Heat shrinkable | |
| Kit contents | Adheive coated sleeves | |
| | installation instruction | |



Resin type end seal
AHTG 201 E-03N

2 YEARS Warranty

The end kits employ easy to use heat shrinkable tubing with an adhesive, that when heated forms a semiflexible moisture proof encapsulation. the termination can be installed directly on the pipe.

Maximum Voltage/ Current: 277V / 20A

One end seal kit is required for each termination.





AHTG 800,801

2 years warranty

Description

The AHTG 800,801 are type end seal kit designed for use with all ABAN HEAT TRACE GROUP parallel type heating cables.

It is designed to be placed on the pipe under the insulation and cladding.

Tools required

- Screwdriver
- Utility knife
- Wire cutters

Additional materials required

fiberglass tape

AHTG 23-10

AHTG 23-20

Approvals

Sutiable for heating cable type AHTG 301,411, 412

Exe II C T 4, CE, ATEX

Simple and fast to install

Corrosion resistant

Reliable during long life: 2 years extended product warranty available, maintenance free



AHTG 800







AHTG 801

LED Indicator end seal

AHTG 800 L

2 years warranty

AHTG 800 L is a cold-applied high profile end seals for trace heating cables in both non-hazardous and hazardous locations.

Mounted on the pipe, through the thermal insulation and cladding, with LED light indicator available.



Low-profile splice & tee connection

AHTG 802, 803

2 years warranty



Description

The AHTG 802,803 are splice and tee connection kit designed for use with all ABAN HEAT TRACE GROUP parallel type heating cables, it is designed to be placed on the pipe under the insulation and cladding.

Tools required

- Screwdriver
- Utility knife
- Wire cutters



Additional materials required

fiberglass tape

AHTG 23-10

AHTG 23-20



APPROVALS

Hazardous Location
Sutiable for heating cable type AHTG 301,411,412
Exe II C T 4, CE, ATEX

Simple and fast to install Corrosion resistant

Reliable during long life: 2 years extended product warranty available, maintenance free



AHTG 803

Splice connection kit AHTG 803 N

2 years warranty

AHTG 803 N is a cold-applied low profile splice for trace heating cables in both non-hazardous and hazardous locations. Includes cold-applied heating cable core sealer.







AHTG 804N

2 years warranty

Part Number: AHTG 804N

Material: Polyamide

Dimensions: 140mm*30mm*30mm

Entries: One heat port & One power port



End seal box

AHTG 805

2 years warranty

Part Number: AHTG 805

Material: GRP

Dimensions: 110mmx110mmx60mm

Color: RAL 1003, Signal black

Entries: One standard M20 one M25





Warning Use with gloves

| Part Number | Lenght | Width (mm) | Material |
|-------------|--------|------------|------------|
| AHTG 23-10 | 20 m | 10mm | Fiberglass |
| AHTG 23-20 | 20 m | 20mm | Fiberglass |





Aluminum tape

Aluminum tape suitable for protecting fixing and installation temperature, resistant from -40 $^{\circ}$ C to +140 $^{\circ}$ C high adhesive strength.

Aluminum tape is coated with a special adhesive layer on the aluminum foil tape. It is used for fixing heating cables & controling divices on the pips and tanks.

| Part Number | Lenght | Width (mm) | Material |
|-------------|--------|------------|----------|
| AHTG 21-48 | 23 m | 48mm | Alu |
| AHTG 21-50 | 45 m | 50mm | Alu |



Electrical heat tracing sign

AHTG 1010







AHTG 104

Part Number: AHTG 104

Material: Stainless steel 316

Dimensions: 100mm * 80mm *20mm

Weight: 25 gr Thinkness: 0.3 mm



330 C High temperature RTV silicone sealant

АНТ 24

RTV Silicone tape Hi-temp red silicone

Great for

Oil pans

Value covers

Water pumps

Timing covers



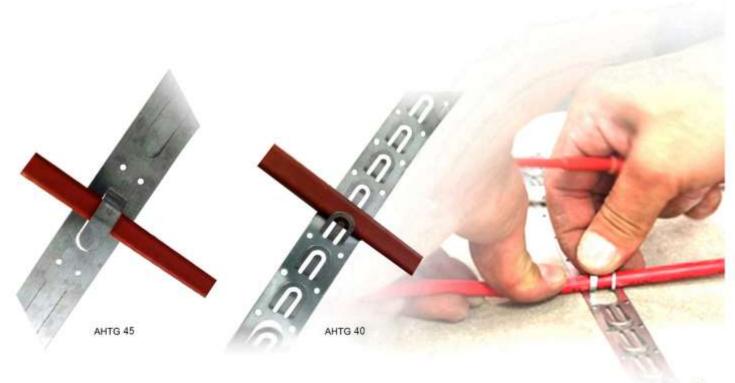
Temperature uniformity aluminium foil use immediately after installation



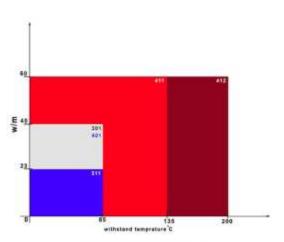
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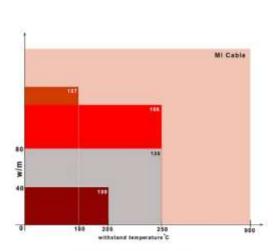






Note





Self-regulating AHTG heating cable

Constant wattage AHTG heating cable













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