

# ABAN HEAT TRACE GROUP

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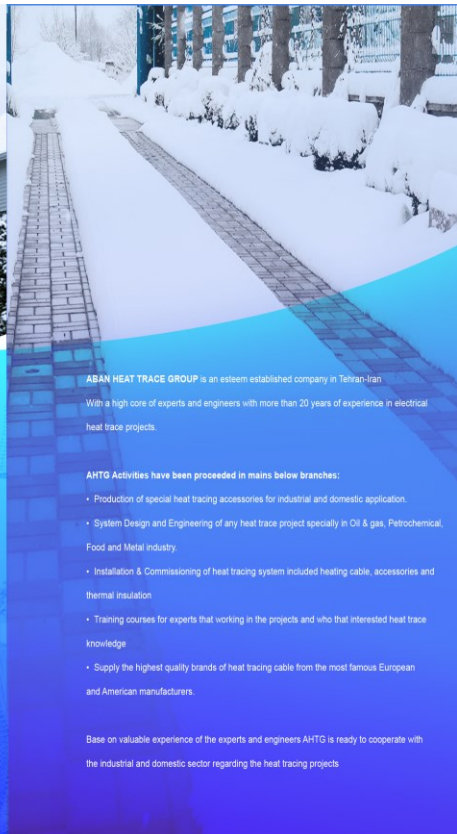
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Issued by the Domestic Department



ABAN HEAT TRACE GROUP is an esteem established company in Tehran-Iran

With a high core of experts and engineers with 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

## Roof & Gutter heating cable (( A.N.E 900Series))

| Technical Data       |                        |
|----------------------|------------------------|
| Cable construction   | Twin conductor         |
| Conductor            | Solid heating core     |
| Insulation           | XLPE (Cross linked PE) |
| Shield               | Aluminum-plastic tape  |
| Protective jacket    | PVC                    |
| Connector            | Out splice             |
| Outer diameter       | 6-8.5 mm               |
| Rated voltage        | 230Vac                 |
| Power output         | 20W/m, 30W/m           |
| Resistance tolerance | +10% / -5%             |
| Certifications       | CE,EAC,EACEX,ATEX      |



## Walking & Ramps heating cable (( A.N.E 902 -18))

| Technical Data       |                        |
|----------------------|------------------------|
| Cable construction   | Twin conductor         |
| Conductor            | Solid heating core     |
| Insulation           | XLPE (Cross linked PE) |
| Shield               | Aluminum-plastic tape  |
| 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,EAC,EACEX,ATEX      |



## constant wattage heating cable (( A.N.E 110 ))

| A.N.E Code | Power | Standard length (m) | Power (w/m) | Total resistance (Ω) |
|------------|-------|---------------------|-------------|----------------------|
| 110-1      | 3300  | 194.1               | 17          | 14.7                 |
| 110-2      | 2800  | 164.1               | 17          | 17.3                 |
| 110-3      | 2600  | 152.9               | 17          | 18.6                 |
| 110-4      | 2400  | 141                 | 17          | 20.2                 |
| 110-5      | 2100  | 123.5               | 17          | 23.0                 |
| 110-6      | 1700  | 100.0               | 17          | 28.6                 |
| 110-7      | 1370  | 80.6                | 17          | 35.7                 |
| 110-8      | 1250  | 73.5                | 17          | 48.4                 |
| 110-9      | 1000  | 58.8                | 17          | 57.6                 |



## A.N.E 1110 Pipe de-icing with thermostat

| No. | A.N.E CODE | Electric Tapped Length (m) | Cold Line Length (m) |
|-----|------------|----------------------------|----------------------|
| 1   | 1110       | 1                          | 1.8                  |
| 2   | 1111       | 2                          | 1.8                  |
| 3   | 1112       | 4                          | 1.8                  |
| 4   | 1113       | 8                          | 1.8                  |
| 5   | 1114       | 12                         | 1.8                  |
| 6   | 1115       | 14                         | 1.8                  |
| 7   | 1116       | 18                         | 1.8                  |
| 8   | 1117       | 24                         | 1.8                  |
| 9   | 1118       | 36                         | 1.8                  |
| 10  | 1119       | 48                         | 1.8                  |



Easy to use



## A.N.E Code: 1020

### LCD thermostat (button type)

#### Technical data

|                               |                      |
|-------------------------------|----------------------|
| Voltage:                      | 220V / 230V, 50/60HZ |
| 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, Carrying a temperature sensor.



## A.N.E Code: 1030

### European standard thermostat (touch type)

#### Technical data

|                               |                      |
|-------------------------------|----------------------|
| Voltage:                      | 220V / 230V, 50/60HZ |
| 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, Carrying a temperature sensor.



## A.N.E 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                   |



## A.N.E 1050

### Ambient thermostat

#### Technical Data

|                   |                           |
|-------------------|---------------------------|
| temperature range | -40 °C _ 80 °C            |
| humidity range    | 0 _ 100%                  |
| dimension(mm)     | 250*350*150 ~ 300*400*170 |
| protection degree | 65                        |
| contactor         | 25A                       |
| relay output      | 7A                        |



| Structure                   | Single Conductor Heating Mat                           | Double Conductor Heating Mat                           |
|-----------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Sheet size                  | 140 pin back apply the double conductor reference tape | 140 pin back apply the double conductor reference tape |
| Thickness                   | 3 - 5mm                                                | 3 - 5mm                                                |
| Height                      | 800 mm                                                 | 100 mm                                                 |
| Velvet cover                | 160 w/m, 160 w/m                                       | 160 w/m, 160 w/m                                       |
| Weight                      | 220 (100w/m)                                           | 220 (100w/m)                                           |
| Cable size                  | 37.5 mm                                                | 17.5 mm                                                |
| Cable structure             | Single guide                                           | Double conductor                                       |
| Cable diameter              | 3mm                                                    | 4mm                                                    |
| Cable insulation            | Nylon (PEP)                                            | Nylon (PEP)                                            |
| Cable shield                | PVC or polyethylene                                    | PVC or polyethylene                                    |
| Cable shielding             | Copper foil-Copper wire                                | Copper foil-Copper wire                                |
| Maximum working temperature | 130 °C                                                 | 120 °C                                                 |

## Grid heating mat

A.N.E: 112-1



| Structure                   | Double conductor heating mat |
|-----------------------------|------------------------------|
| Model                       | T MAT 150                    |
| Cable diameter              | 1.1 m m                      |
| Power supply voltage        | 220V                         |
| Length of power cord        | 2m                           |
| shielded grounding          | Aluminum foil                |
| Heating conductor           | Alloy resistance wire        |
| Insulation                  | PEP                          |
| Maximum working temperature | 130 °C                       |

## Foil heating mat

A.N.E: 113-1



| Product structure          | Technical parameter     |
|----------------------------|-------------------------|
| Cable construction         | Two conductor           |
| Rated voltage              | 220V                    |
| Output power (max)         | 800 w/m                 |
| Heating element size (max) | Length 20 m Width 0.5 m |
| Cable diameter             | 7.8 mm                  |
| Conductor insulation       | Fluoropolymer XLPE      |
| Outer insulation           | PVC                     |
| Max. insulation temp       | 155 °C                  |
| Min. insulation temp       | 0 °C                    |
| Cold lead                  | 2.5 m                   |

## Snow melting mat

A.N.E 114



## A.N.E 401

### Self-Regulating heating cable

#### Technical data

|                                  |                      |
|----------------------------------|----------------------|
| Output Wattage                   | 16, 30, 40(w/m)      |
| Maximum maintain temperature     | 65°C                 |
| Maximum exposure temperature     | 85°C                 |
| Minimum installation temperature | -40°C                |
| Work voltage                     | 110V-120V / 220-240V |
| Max resistance of braid          | ≤15.2 Ω / km         |
| Bus wire gauge                   | 16AWG                |
| Approvals                        | CE,EAC,EACEX,ATEX    |

