



# 11

## Electrically Heated Hoses (templine®)

**Heated hoses with integrated temperature controller/limiter for application in industrial processes, automation & machine-building**



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

## templine®-A

Electrically heated hose for power supply / temperature control

**Material**

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

**Applications**

- maintaining and increasing temperatures for gases, granules and liquids of varying viscosity
- sugar coating, chocolate production, beverage industry, gas analysis, adhesive technology, bitumen, etc.

**Available on request**

- patented braided templine® or wrapped templine®-Basic version

**Properties**

- homogenous heat distribution
- crush-resistant and antistatic constructions on demand
- possible connection to external temperature controllers or PLC
- templine® version: patented braiding with embedded heating conductors
- fittings made of steel or stainless steel
- applications up to 500 bar and vacuum
- low demand for energy
- high power density
- good flexibility

**Temperature Range**

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- metal hose up to +300°C (+572°F)
- other temperature profiles on demand

Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3
25	59 ... 79	IP54 ... IP68	on demand	0,3
32	79 ... 99	IP54 ... IP68	on demand	0,3
40	79 ... 99	IP54 ... IP68	on demand	0,5
50	79 ... 99	IP54 ... IP68	on demand	0,5
65	90 ... 108	IP54 ... IP68	on demand	0,5
80	108 ... 129	IP54 ... IP68	on demand	0,5
100	129 ... 150	IP54 ... IP68	on demand	0,5

max. production length: 100 m

All data refers to a medium and ambient temperature of +20 °C  
 Subject to technical changes and colour deviations.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

### templine®-R

Electrically heated hose with integrated temperature controller



#### Material

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

#### Applications

- maintaining and increasing temperatures for gases, granules and liquids of varying viscosity
- sugar coating, chocolate production, beverage industry, gas analysis, adhesive technology, bitumen, etc.

#### Available on request

- patented braided templine® or wrapped templine®-Basic version

#### Properties

- homogenous heat distribution
- crush-resistant and antistatic constructions on demand
- templine® version: patented braiding with embedded heating conductors
- possible connection to external temperature controllers or PLC
- fittings made of steel or stainless steel
- applications up to 500 bar and vacuum
- low demand for energy
- up to 1380W switching capacity
- high power density
- good flexibility

#### Temperature Range

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- metal hose up to +300°C (+572°F)
- other temperature profiles on demand

Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3
25	59 ... 79	IP54 ... IP68	on demand	0,3
32	79 ... 99	IP54 ... IP68	on demand	0,3
40	79 ... 99	IP54 ... IP68	on demand	0,5
50	79 ... 99	IP54 ... IP68	on demand	0,5
65	90 ... 108	IP54 ... IP68	on demand	0,5
80	108 ... 129	IP54 ... IP68	on demand	0,5
100	129 ... 150	IP54 ... IP68	on demand	0,5

max. production length: 100 m

All data refers to a medium and ambient temperature of +20 °C  
Subject to technical changes and colour deviations.1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

### templine®-B

Electrically heated hose for power supply / temperature control



#### Material

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

#### Applications

- maintaining and increasing temperatures for gases, granules and liquids of varying viscosity
- sugar coating, chocolate production, beverage industry, gas analysis, adhesive technology, bitumen, etc.

#### Available on request

- patented braided templine® or wrapped templine®-Basic version

#### Properties

- homogenous heat distribution
- crush-resistant and antistatic constructions on demand
- templine® version: patented braiding with embedded heating conductors
- fittings made of steel or stainless steel
- applications up to 500 bar and vacuum
- low demand for energy
- up to 1380W switching capacity
- high power density (up to 250 W/m)
- good flexibility

#### Temperature Range

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- metal hose up to +300°C (+572°F)
- other temperature profiles on demand

Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3
25	59 ... 79	IP54 ... IP68	on demand	0,3
32	79 ... 99	IP54 ... IP68	on demand	0,3
40	79 ... 99	IP54 ... IP68	on demand	0,5
50	79 ... 99	IP54 ... IP68	on demand	0,5
65	90 ... 108	IP54 ... IP68	on demand	0,5
80	108 ... 129	IP54 ... IP68	on demand	0,5
100	129 ... 150	IP54 ... IP68	on demand	0,5

max. production length: 100 m

All data refers to a medium and ambient temperature of +20 °C  
Subject to technical changes and colour deviations.1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

## templine®-F

## Electrically heated hose with integrated temperature switch

**Material**

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

**Applications**

- maintaining temperature / frost protection for gases, granules and liquids of varying viscosity

**Available on request**

- patented braided templine® or wrapped templine®-Basic version

**Properties**

- homogenous heat distribution
- crush-resistant and antistatic constructions on demand
- templine® version: patented braiding with embedded heating conductors
- fittings made of steel or stainless steel
- applications up to 500 bar and vacuum
- low demand for energy
- maintaining the temperature of the medium at +5°C
- up to 690W switching capacity
- good flexibility

**Temperature Range**

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- other temperature profiles on demand

**Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)**

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3
25	59 ... 79	IP54 ... IP68	on demand	0,3

max. production length: 50 m

All data refers to a medium and ambient temperature of +20 °C  
 Subject to technical changes and colour deviations.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

### templine®-H

Insulated hose without electrical heating for simple temperature maintenance



#### Material

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

#### Applications

- sugar coating, chocolate production, beverage industry, gas analysis, adhesive technology, bitumen, etc.
- temperature maintenance of gases, granules and liquids of various viscosities

#### Available on request

- RFID labelling

#### Properties

- crush-resistant and antistatic constructions on demand
- fittings made of steel or stainless steel
- applications up to 500 bar and vacuum
- good flexibility

#### Temperature Range

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- metal hose up to +300°C (+572°F)
- other temperature profiles on demand

Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3
25	59 ... 79	IP54 ... IP68	on demand	0,3
32	79 ... 99	IP54 ... IP68	on demand	0,3
40	79 ... 99	IP54 ... IP68	on demand	0,5
50	79 ... 99	IP54 ... IP68	on demand	0,5
65	90 ... 108	IP54 ... IP68	on demand	0,5
80	108 ... 129	IP54 ... IP68	on demand	0,5
100	129 ... 150	IP54 ... IP68	on demand	0,5

max. production length: 100 m

All data refers to a medium and ambient temperature of +20 °C  
Subject to technical changes and colour deviations.1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16

## Electrically Heated Hoses

**templine®-A/-R/-B VARIO****Electrically heated hose with interchangeable internal hose****Material**

- outer casing made of mechanically resilient and abrasion resistant materials
- single/double/multiple pressure-reinforced medium hose made of PTFE, high resistance to chemicals
- thermal insulation: optional silicone foam or silicon-free textile cord

**Applications**

- maintaining and increasing temperatures for gases, granules and liquids of varying viscosity
- sugar coating, chocolate production, beverage industry, gas analysis, adhesive technology, bitumen, etc.

**Available on request**

- patented braided templine® or wrapped templine®-Basic version

**Properties**

- homogenous heat distribution
- crush-resistant and antistatic constructions on demand
- possible connection to external temperature controllers or PLC
- templine® version: patented braiding with embedded heating conductors
- applications up to 500 bar and vacuum
- low demand for energy
- fittings made of steel, stainless steel or open hose ends
- interchangeable medium hose
- good flexibility

**Temperature Range**

- single/double/multiple pressure-reinforced medium hoses made of PTFE up to +250°C (+482°F)
- other temperature profiles on demand

**Stock lengths and technical data / [www.masterflex.de/en](http://www.masterflex.de/en)**

DN mm	outer diameter mm	protection number	article number	min. length m
4	22 ... 39	IP54 ... IP68	on demand	0,3
6	22 ... 39	IP54 ... IP68	on demand	0,3
8	22 ... 39	IP54 ... IP68	on demand	0,3
10	28 ... 39	IP54 ... IP68	on demand	0,3
13	28 ... 39	IP54 ... IP68	on demand	0,3
16	32 ... 59	IP54 ... IP68	on demand	0,3
20	39 ... 79	IP54 ... IP68	on demand	0,3

max. production length: 20 m

All data refers to a medium and ambient temperature of +20 °C  
 Subject to technical changes and colour deviations.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16