HORNISSE

Product catalog
electric heating systems

Hornisse

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Hornisse is not just about modern, reliable, and safe electric heating systems. Hornisse is warmth, tailored to your needs. For 25 years, we have been creating solutions you can trust. They provide comfort and adaptability – exactly how you want it, where you want it, and when you want it.

Infrared heating foil

HORNISSE INFRARED HEATING FOIL
HO-305 / HO-310

The infrared heating foil is a modern solution designed to heat surfaces such as floors, walls, and ceilings. The composition includes cyclocarbon, copper, silver, and condensed PET film. When connected to the power supply, it emits heat through infrared radiation. Thanks to its even heat distribution, it ensures thermal comfort while reducing energy loss. The heating foils are flexible, easy to install, and offer benefits such as low energy consumption and fast heating. They are an excellent choice for underfloor heating systems in both, family residentials and commercial investments.

How does the heating foil work?

The heating foil operates by emitting infrared radiation, which is safe and health-friendly. This type of heating warms objects and surfaces in the room rather than the air itself. This ensures a pleasant and consistent warmth without drafts or cold spots. The heating foil is available in various lengths and widths, making it ideal for perfectly fitting individual installation needs. It is perfect for underfloor heating but can also be used for wall and ceiling heating.

Key benefits

The heating film is an exceptionally efficient solution that offers numerous advantages.
Its design enables rapid heat distribution, contributing to the even heating of spaces.

It is also energy-efficient, helping to reduce heating costs. Installing the heating film is simple and time-saving, while its low profile allows for installation without raising the floor level.

- Distributes heat evenly
- Saves energy
- Installs easily – fast and dust-free
- Provides an invisible heat source
- Heats quickly and responds well to temperature control
- Contains no mechanical parts – requires no repairs, replacements, or maintenance
- Has a low installation height – 5 mm plus the final flooring layer

ECO saving

The infrared heating foil is environmentally friendly, designed to minimize its impact. With lower CO_2 emissions and optimized energy usage, it reduces electricity consumption and contributes to lowering the overall carbon footprint.

This makes it a forward-thinking choice for those seeking greener heating solutions.

Where to use?

- Floors
- Walls
- Ceilings

Electric heating foils belong to the category of dry screed underfloor heating systems. There is no need to remove the existing floor – the heating foil can be installed directly on top of it.

Material

PCT cyclocarbon, copper, silver, and condensed PET film

Certificates

CE RoHS compliant

ISO 9001

ISO 14001

Quality and safety features

- The construction of the heating film is additionally reinforced with a frosted PET film – the frosted appearance results from the densification of the material, which provides enhanced abrasion resistance. Consequently, a vapour barrier layer on the upper layer of the installation is not required.
- High-quality copper strips.
- The fully printed silver strip allows for handling higher loads.
- The laminate is applied exclusively to the bottom layer of the mat to ensure the most durable electrical connection between the film and the clamp connector.

Specification

New generation of composite infrared foil

The composite heating foil differs from ladder-type foil by having a fully printed surface, significantly increasing the heating area. This ensures more even heat distribution across the surface.

Ladder-type foil has a structure resembling a ladder with parallel heating strips. Heat is generated only in the "rung" areas, which significantly reduces the overall heating surface.

Product ID	Width [cm]	Power [W/m]	Power [W/m²]	Voltage [V]	Available foil cutting every [cm]
HO-305	50	60	120	230	25
HO-310	100	120	120	230	25

Product ID	Density [mm]	Maximum film temperature [°C]	Maximum length of 1 film strip installation [m]	Maximum power of 1 film strip installation [W]
HO-305	0,338	35	20	1200
HO-310	0,338	35	10	1200

Electric underfloor heating mat

HORNISSE ELECTRIC UNDERFLOOR HEATING MAT
HOMAT-150-150-1.0 / 150-1500-10

Electric underfloor heating is a system of electric cables arranged on a self-adhesive fibreglass mesh, spaced 8 cm apart. The mat's mesh is fully coated with adhesive, ensuring stable adhesion to the substrate.

Electric heating mats are an excellent solution for both renovated and newly built spaces. They are ideal for use in one or several rooms and can also serve as the sole source of heating in a house or flat.

Key benefits

The heating mat provides exceptional comfort in bathrooms by warming the floor to a pleasant temperature for your feet.

Thanks to the use of electric heating in the bathroom, the wet floor after a shower dries significantly faster. The mat is installed directly under the tiles, allowing the floor to heat up very quickly. Temperature control is managed via a thermostat, which needs to be selected separately.

Specification

- Voltage: 230 V
- Power: 150 W/m²
- Power supply: single-sided
- Cable spacing: 8 cm
- Conductor insulation: fluoropolymer
- Power cable length: 2.5 m
- Mat thickness: 3.6 mm
- Cable construction: single conductor with screen
- Cold lead: Two wires plus ground braid
- Material: fibreglass, PVC

Hornisse set includes:

- Electric heating mat with a connection cable
- Flexible protective tube for the sensor
- Installation manual

Product ID	Heating surface [m²]	Mat dimensions [m x m]	Power 150 W/m²	Amperage [A]	Resistance [Ω]	Product weight net [kg]	Product dimensions net [cm]
HOMAT 150-150-1.0	1,0	0,5 x 2	150	0,7	352,7	0,8	50 x 10
HOMAT 150-225-1.5	1,5	0,5 x 3	225	1,0	235,1	0,9	50 x 11
HOMAT 150-300-2.0	2,0	0,5 x 4	300	1,3	176,3	1	50 x 12
HOMAT 150-450-3.0	3,0	0,5 x 6	450	2,0	117,6	1,4	50 x 12
HOMAT 150-600-4.0	4,0	0,5 x 8	600	2,6	88,2	1,7	50 x 13
HOMAT 150-750-5.0	5,0	0,5 x 10	750	3,3	70,5	2,1	50 x 15
HOMAT 150-900-6.0	6,0	0,5 x 12	900	3,9	58,8	2,4	50 x 16
HOMAT 150-1200-8.0	8,0	0,5 x 16	1200	5,2	44,1	3	50 x 20
HOMAT 150-1500-10.0	10,0	0,5 x 20	1500	6,5	35,3	3,8	50 x 21

On screed electric cable

HORNISSE ON SCREED ELECTRIC CABLE
HOCAB-OV-18-270 - 18-2775

Heating cables installed on screed or directly under ceramic tile flooring provide a modern and efficient heating solution for various types of rooms.
These cables are primarily used in underfloor heating systems, offering an ideal method for evenly distributing warmth, ensuring consistent thermal comfort throughout the space.

Key benefits

Installation on screed or directly under tiled floors – the cables are laid directly on a concrete or anhydrite subfloor, making installation easy under various types of flooring, such as tiles, panels, or stone.

Energy efficiency – precise temperature control and high thermal efficiency help significantly reduce heating costs.

Even heat distribution – the heating cable system ensures constant and even warmth across the entire floor, eliminating cold spots.

Easy installation – heating cables are flexible and can be easily installed, even in irregularly shaped rooms or hard-to-reach areas.

User benefits

Safety – Heating cables are designed with user safety in mind, being resistant to mechanical damage and moisture.

User comfort – A heated floor provides comfortable conditions indoors, especially during colder periods.

Long lifespan – Heating cables are durable and resistant to wear, ensuring long-term use.

This solution is particularly recommended for modern buildings and renovated interiors, where aesthetics and comfort go hand in hand with energy efficiency.

Specification

- Voltage: 230 V
- Output: 18 W/m
- Heating element length: 7.5 - 154.2 m (18 W/m)
- Maximum cable temperature: 45 °C
- Minimum installation temperature: 5 °C
- Power supply cable: Two-core cable with grounding braid, length of 2.5 m
- Core insulation: Fluoropolymer
- Cable construction: Two-core
- Outer insulation: PVC
- Maximum bending radius: 50 mm
- Cable diameter: 3.1 - 3.6 mm

Where to use?

Heating cables are suitable for both residential and commercial buildings. They can be used to heat entire rooms, bathrooms, kitchens, as well as an additional heat source, for example, in areas near windows or balcony doors.

Product ID	Length [m]	Power 18 W/m	Amperage [A]	Resistance [Ω]	Product weight net [kg]	Product dimensions net [cm]
HOCAB-OV-18-270	15,0	270	1,2	195,9	0,35	16 x 5
HOCAB-OV-18-400	22,2	400	1,7	132,3	0,5	16 x 5
HOCAB-OV-18-680	37,8	680	3,0	77,8	0,7	18 x 5
HOCAB-OV-18-800	44,4	800	3,5	66,1	0,75	19 x 5
HOCAB-OV-18-1100	61,1	1100	4,8	48,2	1	20 x 5
HOCAB-OV-18-1220	67,8	1220	5,3	43,4	1,2	20 x 5
HOCAB-OV-18-1500	83,3	1500	6,5	35,3	1,4	21 x 5
HOCAB-OV-18-1900	105,6	1900	8,3	27,8	1,8	23 x 5
HOCAB-OV-18-2295	127,5	2295	10,0	23,1	2,5	22 x 7
HOCAB-OV-18-2775	154,2	2775	12,1	19,1	3,5	25 x 7

NEW underfloor heating cable

HORNISSE NEW UNDERFLOOR HEATING CABLE
HOCAB-UND-15-225 - 18-2325

Electric heating cables laid under screed offer a modern solution designed for underfloor heating systems, ensuring efficient and comfortable heating of interior spaces. Installed beneath a screed layer (either concrete or anhydrite), these cables remain invisible and are compatible with various types of floor coverings, such as tiles, panels, or carpets.

Key benefits

Heating output of 15 W/m - delivering efficient yet economical energy consumption.

Installation under screed – the cables are laid directly beneath the screed layer, allowing for even heat distribution and g+ood heat retention, ensuring the floor maintains a comfortable temperature for an extended period.

Energy efficiency – precise temperature control and thermal efficiency help reduce heating costs while maintaining comfort.

Even heat distribution – the under-screed heating cable system ensures an even distribution of heat across the entire floor surface, eliminating cold spots.

Durability – heating cables with a power output of 15 W/m are highly durable, and their installation within the screed layer makes them resistant to mechanical damage and other external factors.

User benefits

Excellent heat accumulation – the screed acts as a thermal mass, which helps the floor retain heat for long periods, even after the system is turned off.

Interior aesthetics – the cables are completely hidden beneath the screed, ensuring that they do not interfere with the room's design.

Thermal comfort – a heated floor provides a pleasant sensation underfoot and ensures uniform temperature distribution throughout the room.

Durability and low operating costs – these systems are durable and reliable, requiring no maintenance during use.

Thanks to heating cables with a power output of 15 W/m installed under the screed, an efficient electric heating installation can be achieved that is also energy-efficient and environmentally friendly, making it an excellent choice for both new builds and the renovation of existing heating systems.

Specification

- Voltage: 230 V
- Power: 15 W/m
- Cable construction: Two-core
- Core insulation: XLPE and PVC
- Outer insulation: LSZH (Low Smoke Zero Halogen)
- Maximum bending radius: 50 mm
- Cable diameter: 4.8 - 5.6 mm
- Maximum cable temperature: 45 °C
- Minimum installation temperature: 5 °C
- Power supply cable: Two-core with a grounding braid, length of 2.5 m

Where to use?

Heating cables laid under screed are ideal for single-family homes, apartments, and commercial spaces. They perform particularly well in bathrooms, kitchens, living rooms, and other areas where underfloor heating is desired. Due to their power, they are especially recommended for both supplementary and primary heating systems in well-insulated spaces.

Product ID	Length [m]	Power 15 W/m	Amperage [A]	Resistance [Ω]	Product weight net [kg]	Product dimensions net [cm]
HOCAB-UND-15-225	15	225	1,0	235,1	0,5	17 x 5
HOCAB-UND-15-375	25	375	1,6	141,1	0,8	20 x 5
HOCAB-UND-15-600	40	600	2,6	88,2	1,2	22 x 5
HOCAB-UND-15-900	60	900	3,9	58,8	1,8	20 x 9
HOCAB-UND-15-1200	80	1200	5,2	44,1	2,4	22 x 10
HOCAB-UND-15-1500	100	1500	6,5	35,3	3	24 x 10
HOCAB-UND-15-1800	120	1800	7,8	29,4	3,8	25 x 10
HOCAB-UND-15-2100	140	2100	9,1	25,2	4,5	25 x 13
HOCAB-UND-15-2325	155	2325	10,1	22,8	5,3	26 x 13

Snow melting cables

de-icing heating system 6.5 mm

HORNISSE SNOW MELTING CABLE
HOCAB-ODR-30-300 - 30-2940

External anti-icing cables are a reliable solution for protecting outdoor surfaces from snow and ice. They are designed for installation on driveways, pavements, stairs, as well as on roofs in gutter and downpipe systems. These cables effectively prevent ice formation, reducing the risk of accidents and damage. Hornisse snow melting cables are a key component of de-icing systems, ensuring safety and convenience for outdoor surfaces during the winter season.

Key benefits

Weather resistance – the snow-melting cables are specifically designed to withstand harsh outdoor conditions, including low temperatures, moisture, and UV radiation.

Even heat distribution – they ensure effective melting of snow and ice across the entire surface where they are installed, preventing ice buildup.

Versatility of application – the cables can be used on driveways, sidewalks, stairs, as well as in gutters and downpipes, protecting both surfaces and drainage systems from freezing.

Automatic control – when combined with thermostats and moisture or temperature sensors, the snow-melting cables operate automatically, activating only when needed, which helps save energy.

Easy installation – the cables are flexible and easy to install, allowing quick placement on flat surfaces, in gutters, and even on complex structures.

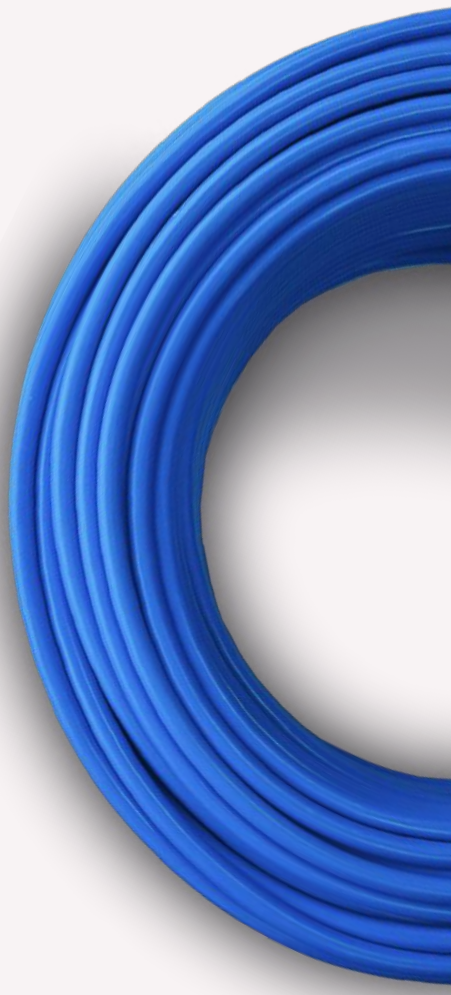
User benefits

Safety – minimizes the risk of slips and falls, especially in areas prone to icing.

Surface protection – using snow-melting cables prevents surface damage caused by ice expansion.

Automatic and energy-efficient operation – snow-melting systems are energy-efficient due to automatic controls, allowing for effective energy management.

Durability – the cables are made from high-quality materials, ensuring long-lasting performance even in extreme weather conditions.



Hornisse snow-melting cables are self-regulating, meaning they automatically adjust to the ambient temperature. This prevents the cables from exceeding 10°C. For easier temperature control, installing an NTC-10 sensor and thermostat is recommended.

Outdoor snow-melting cables are the ideal solution for individuals and businesses looking to ensure safety on their properties and protect drainage systems from damage. Used on driveways, sidewalks, stairs, and gutters, they provide comfort and safety even during the harshest winter conditions, making them essential in areas prone to heavy snowfall and icing.

Where to use?

Driveways and sidewalks – prevent the buildup of snow and ice on outdoor surfaces, ensuring safe movement.

Outdoor stairs – eliminate the risk of slipping on icy steps.

Gutters and downpipes – protect drainage systems from freezing, preventing damage, blockages, or cracks.

Outdoor use.
It is recommended to lay the cables with a spacing of 30 cm apart. The spacing between heating cables should not exceed 50 cm.

Specification

- Voltage: 230 V
- Core insulation: XLPE
- Outer insulation: PVC, UV-protected
- Cable construction: round, two-core with 100% shielding
- Shielding: 100% coverage with aluminium foil
- Minimum installation temperature: 5 °C
- Installation cable length: 3.0 m

Product ID	Length [m]	Power 30 W/m	Amperage [A]	Resistance [Ω]	Product weight net [kg]	Product dimensions net [cm]
HOCAB-ODR-30-300	10,0	300	1,4	176,3	0,6	16 x 5
HOCAB-ODR-30-630	21,0	630	2,9	84,0	1,2	24 x 5
HOCAB-ODR-30-960	32,0	960	4,4	55,1	1,7	26 x 5
HOCAB-ODR-30-1470	49,0	1470	6,7	36,0	2,7	31 x 5
HOCAB-ODR-30-2100	70,0	2100	9,5	25,2	3,7	25 x 10

Thermostats

HORNISSE ET44W THERMOSTAT WHITE/ BLACK
HOTHERM-44-WW / HOTHERM-44-WB

A flush-mounted wall thermostat with a minimalist design, intended for controlling the temperature of electric heating. The thermostat is compatible with the most popular frame systems, including Schneider Unica, Legrand Valena, Schneider Exxact, and other systems with an internal frame dimension of 56 x 56 mm.

Specification

- Voltage: 120~240 V, 50/60 Hz
- Maximum load: 16 A
- Power consumption in standby mode: <1 W
- Electrical installation (cable): ≤ 2.5 mm²
- Settings control via app
- IP class: IP21

GLOSSY WI-FI THERMOSTAT WHITE/ BLACK
HOTHERM-GLASS-W / HOTHERM-GLASS-B

The HOTHERM-GLASS-W / HOTHERM-GLASS-B thermostat is designed for controlling electric underfloor heating systems, water heating, or gas boilers. The thermostat is fully suitable for use in commercial, industrial, and residential buildings.

Specification

- Voltage: 95~240 VAC, 50~60 Hz
- Maximum load: 16 A
- Sensor: NTC3950, 10 K
- Accuracy: ±1 °C
- Temperature control range: 5-35 °C
- Display temperature range: 5 ~ 99 °C
- Energy consumption: <1.5 W
- Synchronization error: <1 %
- Casing material: PC + ABS (fire-resistant)
- Wire terminals: 2 x 1.5 mm² or 1 x 2.5 mm² solid wire
- IP class: IP20
- Buttons: capacitive touch buttons

SMART SOCKET THERMOSTAT WHITE/ BLACK
HOTHERM-SKT-W / HOTHERM-SKT-B

The HOTHERM-SKT-W / HOTHERM-SKT-B is a socket-plugged thermostat, compatible with electric radiators, electric cooling systems, and temperature control systems. It can be used as part of smart home systems and is compatible with infrared heaters.

Specification

- Voltage: 95~220 V, 50~60 Hz
- Maximum load: 16 A
- Sensor: NTC 10 K
- Accuracy: ±0.5 °C
- Casing material: PC+ABS (fire-resistant)
- IP class: IP20
- Display temperature range: 5~99 °C

Product ID	Product weight net [kg]	Weight gross [kg]	Dimensions (H x L x W) [cm]
HOTHERM-GLASS-W HOTHERM-GLASS-B	0,15	0,26	8,8 x 8,8 x 4

Product ID	Product weight net [kg]	Weight gross [kg]	Dimensions (H x L x W) [cm]
HOTHERM-44-WW HOTHERM-44-WB	0,09	0,2	10 x 10 x 7

Product ID	Product weight net [kg]	Weight gross [kg]	Dimensions (H x L x W) [cm]
HOTHERM-SKT-W HOTHERM-SKT-B	0,14	0,2	12 x 6 x 7,3

Tools and accessories

HOTOOL-PE-CAB

HORNISSE WIRE STRIPPING PLIERS Material: steel, plastics

The HORNISSE WIRE STRIPPING PLIERS are a specialist tool designed for the precise removal of insulation from electrical wires. They facilitate the work of electricians and installers, ensuring fast and accurate cable preparation without the risk of damaging the wire core. They are suitable for use with both single-core and multi-core wires, as well as cables of various thicknesses.

HOTOOL-AC4

HORNISSE AC4 CONNECTOR CRIMPER TOOL Material: steel, plastics

The HORNISSE AC4 CONNECTOR CRIMPER TOOL is designed primarily for crimping HORNISSE AC4 CONNECTOR CLAMPS during the installation of electric heating films. It enables fast and reliable wire connections, which are crucial for installation, repair, and maintenance tasks. The tool's flat crimping jaws and locking mechanism ensure a precise and secure crimp of the AC4 connector onto the heating film. It is compatible with cables of varying cross-sectional sizes, making it a versatile tool across multiple industries.

HOTOOL-CAB

HORNISSE SLEEVE CRIMPER TOOL 0,25 - 10 mm² Material: steel, plastics

The HORNISSE SLEEVE CRIMPER TOOL is a versatile tool designed for the precise crimping of sleeves onto wire ends, ensuring a secure and reliable electrical connection. It is suitable for crimping sleeves ranging from 0.25 mm² to 10 mm². This tool is an essential piece of equipment for electricians and installers, providing fast and durable cable terminations across various types of installations.

Product ID	Product weight net [kg]	Dimensions (L x W x H) [cm]
HOTOOL-PE-CAB	0,36	21 x 11 x 3
HOTOOL-AC4	0,6	23 x 8 x 2
HOTOOL-CAB	0,45	17 x 8 x 2

HOBIT-20

HORNISSE SELF-ADHESIVE BITUMIONOUS TAPE 20 LM/ ROLL

The bitumen tape (self-vulcanising) is designed for insulating and sealing connections in underfloor heating systems based on heating films. The tape effectively insulates the wire-to-film connections, protecting against short circuits and enhancing the overall safety of the system. It is applied at wire connection points.
Width: 50 mm.

Material: synthetic rubber and plasticiser

Product ID	Product weight net [kg]	Dimensions (D x H) [cm]
HOBIT-20	2,2	21 x 6

HOAC4

HORNISSE AC4 CONNECTOR CLAMP

The HORNISSE AC4 CONNECTOR CLAMP is designed for underfloor heating systems based on heating films. It ensures a secure and stable connection between electrical wires and the heating film, which is crucial for the correct operation of the system.
It is suitable for use in both small domestic installations and larger industrial projects.

Material: copper, tin-coated

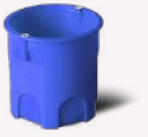
	Product dimensions			Single pack		
Product ID	Product weight net [kg]	Dimensions (L x W x H) [cm]	Quantity [pc.]	Weight gross [kg]	Dimensions (L x W x H) [cm]	Quantity [pc.]
HOAC4	0,003	3 x 1 x 1	1	1,7	21 x 14 x 6	500

HOPLAST-BOX-B

HORNISSE FLUSH-MOUNTED PLASTER BOX BLUE

The HORNISSE FLUSH-MOUNTED PLASTER BOX BLUE is designed for mounting a thermostat in electric underfloor heating systems using electric mats, cables, or heating foils.
It is non-flammable.

Diameter: 60 mm.

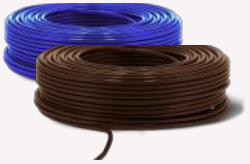


Product ID	Product weight net [kg]	Dimensions (D x H) [cm]
HOPLAST-BOX-B	0,03	6 x 7

HOPOW-CO-BR-1
HOPOW-CO-BL-1

HORNISSE DOUBLE-INSULATED POWER CORD BROWN/ BLUE

The HORNISSE DOUBLE-INSULATED POWER CORD BROWN/ BLUE is a universal cable designed for transmitting electrical power. It is widely applied in various domestic and industrial installations. Commonly used in lighting systems, electrical appliance connections, and power installations where phase wire identification is required. According to standards, the brown color indicates the live wire (L), which simplifies identification in electrical setups.



Material: PVC
LgY: 2.5 mm²

Product ID	Product weight net [kg]	Dimensions (W x H) [cm]
HOPOW-CO-BR-1	4,5	27 x 14
HOPOW-CO-BL-1	4,6	27 x 14

HOCORR-PE-12

HORNISSE CORRUGATED CONDUIT 12 MM WITH CAP

The protective conduit, or flexible conduit, is a flexible cover designed to protect floor sensor cables from mechanical damage, moisture, and external factors. The conduit is equipped with a rubber end cap, which prevents liquid products from entering. Thanks to this end cap, the sensor can be replaced at any time. Length: 3 m.

Material: PP

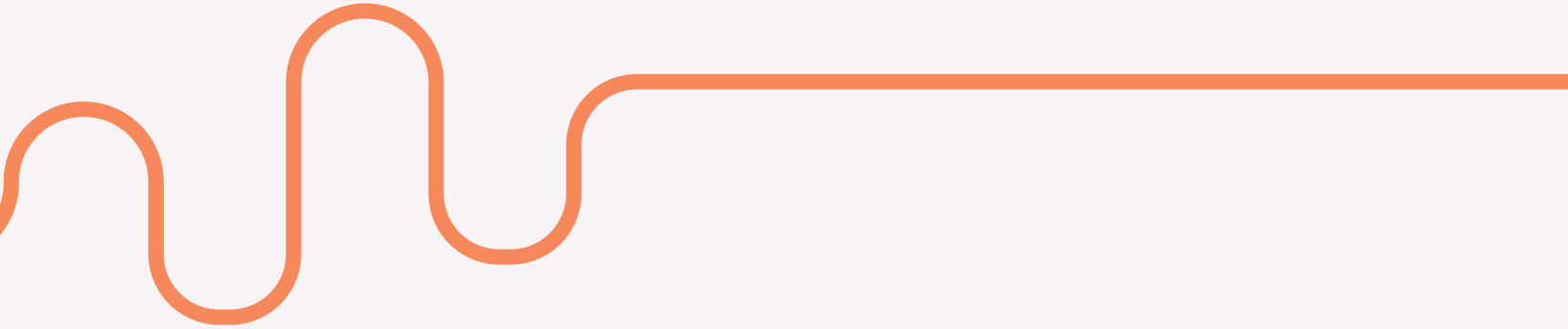
Product ID	Product weight net [kg]	Diameter [mm]	Length [m]	Dimensions (L x W x H) [cm]
HOCORR-PE-12	0,5	⌀ 12	3	50 x 5 x 5

HOFIX-50

HORNISSE FIXING TAPE 50 LM

HORNISSE FIXING TAPE – designed for joining individual strips of heating foil in electric heating systems using HO-305 and HO-310 foils. Width: 50 mm.

Product ID	Product weight net [kg]	Dimensions (D x H) [cm]
HOFIX-50	0,12	9,5 x 5



Hornisse. Warmth in the rythm of your life

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