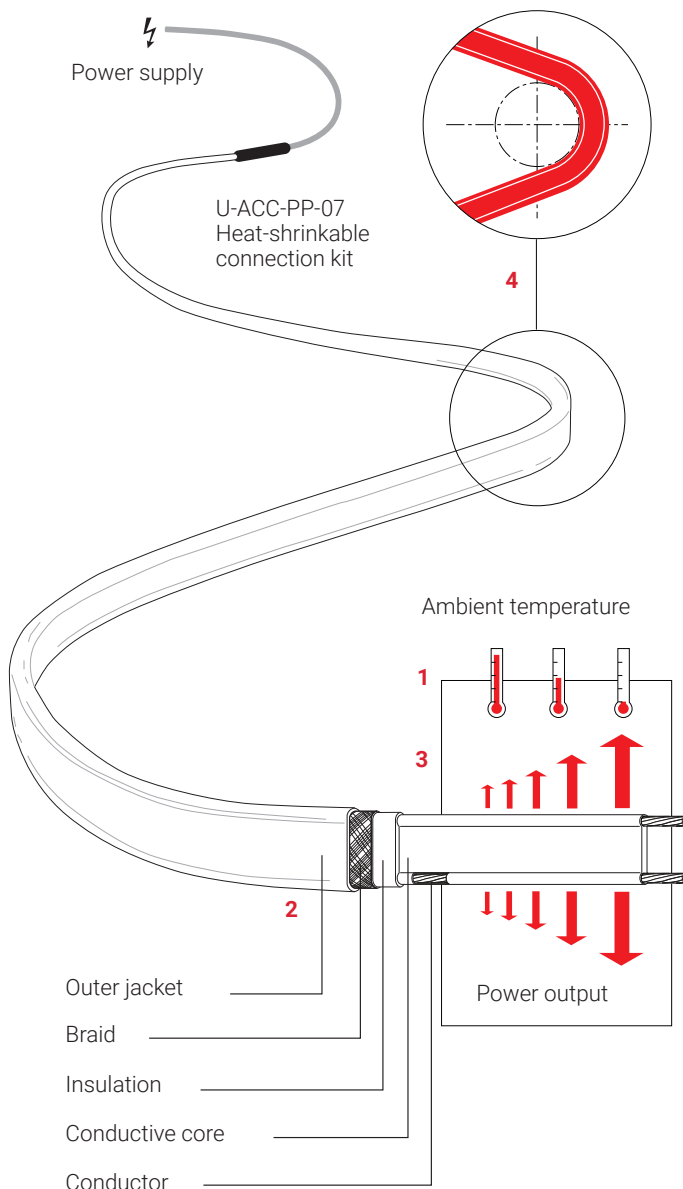


## SELF-REGULATING HEATING CABLES FOR THE REFRIGERATION INDUSTRY



### **FROST PROTECTION CONDENSATION PREVENTION**

The nVent RAYCHEM FreezGard family of self-regulating heating systems can be used for frost protection of drain lines and freezer doors and also for anti-condensation in refrigerated window displays. Other applications include freezer cabinets, cold rooms, hand rails, compressors, condensers and evaporators.

#### **1. Self-regulating technology**

No thermostats are required. The FreezGard System features a self-regulating heating cable specially developed by RAYCHEM, the industry leader, to prevent condensation and to protect against frost. Since the heating cable is self-regulating, the heat output adjusts automatically to ambient conditions at each point along its length. It can never overheat, even when overlapped or closely spaced.

#### **2. Increased reliability and safety**

The FreezGard System is more reliable and safe. It will withstand up to 7 years of rigorous use. Self-regulation prevents overheating, and a special 0.14 mm<sup>2</sup> thick braid gives greater mechanical and electrical protection to both employees and customers. Once installed, it operates automatically and users can almost forget it is there.

#### **3. Energy efficiency and economy**

The FreezGard System is costeffective, saving money through low maintenance and operating costs. Energy consumption is reduced by automatically decreasing the thermal output as the ambient temperature rises. Compared with conventional systems, power consumption is reduced significantly.

#### **4. Easy to design and install**

Due to the special geometry and a small bending radius, the FreezGard System is simple to design and to install. Moreover, all FreezGard Systems use the same components, thereby providing maximum flexibility.

## TECHNICAL CHARACTERISTICS

	FreezGard-Gardian W31	FreezGard-Gardian W32	FreezGard-Gardian W51	FreezGard-Gardian W52
Power output (W/m at 5°C)	10 W/m	10 W/m	15 W/m	15 W/m
Supply voltage	110 Vac	240 Vac	110 Vac	240 Vac
Maximum exposure temperature				
• continuous	50°C	50°C	50°C	50°C
• intermittent	85°C	85°C	85°C	85°C
Product dimensions				
• Thickness (mm)	3,8	5,8	5,8	5,8
• Width (mm)	6,4	8,5	8,5	8,5
Inner jacket material	cross-linked modified polyolefin	cross-linked modified polyolefin	cross-linked modified polyolefin	cross-linked modified polyolefin
Outer jacket material	None	modified polyolefin	modified polyolefin	modified polyolefin
Minimum installation temperature	-20°C	-20°C	-20°C	-20°C
Minimum bend radius	10 mm	10 mm	10 mm	10 mm

### Maximum heating cable length per circuit (m)

Maximum circuit length  
(if started at 10°C)

Electrical protection sizing 16A	60 m	80 m	50 m	75 m
----------------------------------	------	------	------	------

nVent RAYCHEM strongly recommends the use of a 30mA residual current device to provide maximum safety and protection.

## COMPONENTS

**nVent RAYCHEM U-ACC-PP-07** Connection and end seal kit

## INSTALLATION

Specific installation instructions will be supplied with the components. Installation must be carried out by trained personnel

### United Kingdom

Tel 0800 969 013  
Fax 0800 968 624  
salesthermalUK@nvent.com

### Ireland

Tel 1800 654 241  
Fax 1800 654 240  
salesIE@nvent.com



[nVent.com](https://www.nvent.com)

Our powerful portfolio of brands:

**CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER**