



Type ELSR-R-19-2-01 Type ELSR-R-27-2-BOT

Frost and Freeze Protection for Cold Storage Rooms

Application description

The "R" in the name of our self-regulating heating cable ELSR-R is an abbreviation for "round". This heating cable was specially developed to protect the doors and seals of cold storages against frost as well as all for applications requiring a round heating cable.

It is also often used in cold water lines by breweries and drinks manufacturers (as frost protection). The maximum exposure temperature is 55 °C.

Moreover, the heating cable ELSR-R is damp-protected and UV-resistant as are all eltherm® self-regulating heating cables.

Technical data:

Outer jacket.....TPE-O

Bus wire......Cu nickel-plated

Maximum exposure

temperature (deenergised)..... 55 °C

Maximum exposure

temperature (energised)......55 °C Nominal voltage.....230 V

Panding radius minimum 20 mm

Bending radius minimum......30 mm

Minimum installation

temperature..... 30 °C

Design:

B: Protective braid

BO: Protective braid and a thermoplastic

outer jacket

AO: Aluminium foil and a thermoplastic

outer jacket

OT: additional Fluoropolymer outer

jacket

BOT: Protective braid, thermoplastic outer

jacket and additional Fluoropolymer

outer jacket

Your benefits:

- Self regulating
- temperature adjustment according to environmental temperatur
- Energy saving by temperatur and function without additional devices
- Better heat transmission by round form
- overheating is impossible, no risk of fire
- Constant heat without gaps
- Moisture proof, Fluoropolymer outerjacket gives reliable protection and avoids damage
- UV-resistant, Fluoropolymer outer jacket gives reliable protection
- Highest chemical resistance, Fluoropolymer outer jacket gives reliable protection
- Flexible round cable can be installed easier, no risk of damage, better mechanical resistance because of Fluoropolymer outer jacket
- · cutting to each length is possible
- Long lasting high quality material and proven technic



Туре	Nominal output	Dimensions approx. Ø (mm)	Weight approx. (g/m)	Item number
ELSR-R-27-2-BOT	27 W/m at 10°C	7,3	74	B02000605
ELSR-R-19-2-OT	19 W/m at 10°C	6,9	54	B02000506



Type ELSR-R-27-2-BOT

Frost and Freeze Protection for Cold Storage Rooms

Cold storage room doors

In order to achieve good door sealing properties, ELSR-R-19-2-OT or ELSR-R-27-2-BOT heating is installed to the door frame, opposite of the door seal, or behind the door seal, to prevent the rubber seal from freezing and the door from sticking when opening.

Drainline heating

The ELSR-R-19-2-OT or ELSR-R-27-2-BOT heating cable is to be fitted to the drainlines, pipe work and even drip trays to keep them free of ice and permit the draining of water during the defrost cycle.

Fin defrosting

During operation ice will build up on the cooler fins and a defrosting cycle would be needed to take place. ELSR-R-19-2-OT or ELSR-R-27-2-BOT will be placed between the fins in order to melt the ice.

Comfort rails

ELSR-R-19-2-OT or ELSR-R-27-2-BOT heating cable is fitted to the underside of front rails on cabinets, to give the shopper a warm hold when reaching into the cabinet to select his or her purchases.

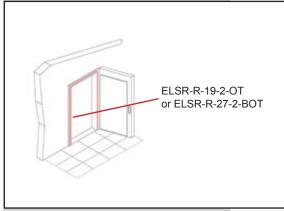
Anti condensation

ELSR-R-19-2-OT or ELSR-R-27-2-BOT heating cable is installed between the warm air surrounding of the cabinet and the cold refrigerated air inside the cabinet. Applying the heating cable in these areas prevents forming of moisture that would go inside the cabinet.

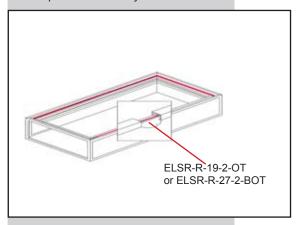
Demisting

ELSR-R-19-2-OT or ELSR-R-27-2-BOT heating cable is installed all around the double glazed units fitted to the fronts and sides of display cabinets to ensure clear vision of the products contained within the cabinet.





The round form of the self-regulating heating cable allows to position it exactly in the door frame



Heating circuit lengths ELSR-R-19-2 considering

230 V nominal voltage

tin-plated copper protected braid \

outer jacket

- . Delayed action circuit breakers (C-characteristic) with 80 % maximum load
- Maximum 10 % line voltage drop on the heating cable bus wire
- A (1) single end power input heating cable into consideration

Switch-on	Nominal cut-	Heating circuit length (m) for	
temperature (°C)	out value (A)	ELSR-R-19-2	
10	16	95.5	
10	20	95.5	
0	16	88	
U	20	88	
-10	16	82.5	
-10	20	82.5	
-20	16	77.5	
-20	20	77.5	
-40	16	70	
-40	20	70	

Please ask for further details, if needed.

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