



Description of Heating tape

- Self regulating
- 2 temperature ranges
- Variable loading
- high chemical resistance
- Limiters are not required
- Cut to length

Applications:

Frost protection and temperature maintenance of containers, pipes, valves, gutters, and many others. Except for the power connections, the cable can be installed in liquids.

For use in aggressive atmosphere, chemical and petrol chemical industries, the cable is fitted with a chemicals resistant outer protection sheath (option "T").

Function:

Self regulating heating tapes consist of 2 parallel copper bus wires, imbedded in a radiated and with carbon particles enriched synthetic heating element. This means that the heating element will change its loading depending on the

ambient temperature. With increasing temperature, the synthetic material expands by molecular force, the connections between the carbon particles diminish, the resistance increases and with that loading decreases. When cooling down, the process is inverted and loading increases.

Thus the heating power varies according to the temperature of the surface the tape is applied on. Because of their physical properties, self regulating heating tapes can overlap and can be installed without a limiter.

Technical Data

Nominal voltage	230V
Min. bending radius	20 mm flat
Min. installation temperature	-10
Moisture protected	yes

Standards

Manufactured acc. to	DIN VDE 0254:1994-06
El. code	NH1PXTPE QU TPE
Thermal safety	class 0 acc. to DIN VDE 0721 part 2A3

	Nominal loading on insulated pipes at 10 [W / m]	Max. allowed ambient temperature power on [] power off[]		Earth braiding Description	Cross sections of earth braiding [mm²]	Dimensions	Item-No.
ELSR-10-BO	10	65	80	tinned copper	5	13.3 × 5.2	0200110
ELSR-10-BOT	10	65	80	tinned copper	5	13.3 × 5.2	0200120
ELSR-A-10-BO	10	65	80	Aluminum foil / tinned copper	1.23	13.3 × 5.2	0200130
ELSR-A-10-BOT	10	65	80	Aluminum foil / tinned copper	1.23	13.3 × 5.2	0200140
ELSR-20-BO	20	65	80	tinned copper	5	13.3 × 5.2	0200210
ELSR-20-BOT	20	65	80	tinned copper	5	13.3 × 5.2	0200220
ELSR-A-20-BO	20	65	80	Aluminum foil / tinned copper	1.23	13.3 × 5.2	0200230
ELSR-A-20-BOT	20	65	80	Aluminum foil / tinned copper	1.23	13.3 × 5.2	0200240
ELSR-30-BO	30	65	80	tinned copper	5	15.0 × 5.2	0200310
ELSR-30-BOT	30	65	80	tinned copper	5	15.0 × 5.2	0200320
ELSR-A-30-BO	30	65	80	Aluminum foil / tinned copper	1.23	15.0 × 5.2	0200330
ELSR-A-30-BOT	30	65	80	Aluminum foil / tinned copper	1.23	15.0 × 5.2	0200340
ELSR-40-BO	40	65	80	tinned copper	5	15.0 × 5.2	0200410
ELSR-40-BOT	40	65	80	tinned copper	5	15.0 × 5.2	0200420
ELSR-A-40-BO	40	65	80	Aluminum foil / tinned copper	1.23	15.0 × 5.2	0200430
ELSR-A-40-BOT	40	65	80	Aluminum foil / tinned copper	1.23	13.3 × 5.2	0200440
ELSRH-28-T	24	120	190	tinned copper	5	10.5 × 5.0	0220110
ELSRH-212-T	37	120	190	tinned copper	5	10.5 × 5.0	0220210
ELSRH-215-T	46	120	190	tinned copper	5	10.5 × 5.0	0200310
ELSRH-218-T	56	120	190	tinned copper	5	10.5 × 5.0	0220410
ELSRH-220-T	63	120	190	tinned copper	5	10.5 × 5.0	0220510