Technical Information

Selection of the Selfregulating Heating Tape Type ELSR-...-BO for a Minimum Frost Protection Temperature + 5

Outside diameter of pipe : in		inch:	1/2	3/4	1	11/4	11/2	2	21/2	3	4	5	6	7	8	9	10	12
		DN:	15	20	25	32	40	50	65	80	100	125	150	175	200	225	250	300
Thickness of min. ambient				Heating Tape Type ELSRBO														
themal insulation (mm) emp.()																		
10	-15		10	10	20	20	20	30	30	30	40	2×30	2×30	2×40	2×40	2×40	2×30	3×40
	-20		10	20	20	20	30	30	40	40	2×30	2×30	2×40	2×40	3×30	3×40	3×40	4×40
	-25		10	20	20	30	30	40	40	2×30	2×30	2×40	2×40	3×40	3×40	3×40	4×40	4×40
20	-15		10	10	10	10	10	20	20	20	30	30	30	40	40	40	2×30	2×30
	-20		10	10	10	10	20	20	20	30	30	30	40	2×30	2×30	2×30	2×30	2×40
	-25		10	10	20	20	20	20	30	30	40	40	2×30	2×30	2×30	2×30	2×40	2×40
30	-15		10	10	10	10	10	10	10	20	20	20	20	30	30	30	40	40
	-20		10	10	10	10	10	20	20	20	20	20	30	30	40	40	40	2×30
	-25		10	10	10	10	20	20	20	20	30	30	30	40	40	2×30	2×30	2×30
40	-15		10	10	10	10	10	10	10	10	20	20	20	20	20	30	30	30
	-20		10	10	10	10	10	10	20	20	20	20	20	30	30	30	30	40
	-25		10	10	10	10	10	20	20	20	20	20	30	30	30	40	40	2×30
50	-15		10	10	10	10	10	10	10	10	10	20	20	20	20	20	20	30
	-20		10	10	10	10	10	10	10	10	20	20	20	20	30	30	30	30
	-25		10	10	10	10	10	10	20	20	20	20	20	30	30	30	30	40

Above calculation is based on a conduction coefficient of the insulation of 0.04 W/mK, a wind speed of 10 m/s and a safety margin of 20%

Technical Data		Frost Pr	rotection		Gutter	Hot \	Grease Pipe	
	ELSR-10-BO	ELSR-20-BO	ELSR-30-BO	ELSR-40-BO	ELSR-20-BO	ELSR-W-55-BO	ELSR-W-65-BO	ELSR-F-22-BO
Outer protection sheath TPE-O, colour	black	black	black	black	black	grey	grey	grey
Nominal voltage (V)	230	230	230	230	230	230	230	230
Nominal wattage on insulated pipes								
at + 5 (Watt / m)	11.5	23	33.5	40				
Nominal wattage at 0 in the air (Watt / m)				16				
Nominal wattage at 0 in ice-water (Watt / m)				35				
Nominal wattage at + 55 (Watt / m)						9		
Nominal wattage at + 65 (Watt / m)							13	
Nominal wattage at + 40 (Watt / m)								22
Max. allowable ambient temperature								
Heating tape switched off ()	80	80	80	80	80	120	120	120
Heating tape switched on ()	65	65	65	65	65	80	80	80
Cross-section of the bus wires (mm)	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
Max. length of the heating circuit								
at 0 with a 16A	142	94	70	62	94	150	120	150
delay circuit breaker (m)								
Min. bending radius (mm)	25	25	25	25	25	25	25	25
Dimensions; thickness (mm)	4.9	4.9	5.3	5.3	4.9	4.6	4.6	4.6
width (mm)	13	13	15.6	15.6	13	11.7	11.7	11.7
Min. installation temperature()	-10	-10	-10	-10	-10	-10	-10	-10
Weight of the tape (g / m)	126	126	153	153	126	118	118	118
Thermal class 0 acc. to VDE 0721 part 2A3 9/83								