



EChatwatt 45


EChatwatt 55

EChatwatt 70

The EChatwatt is a self-limiting heating cable that is used for temperature maintenance of hot water supply and other fluids that need to maintain a certain temperature. The self-limiting capability of the cable ensures that the output of the cable increase or decrease according to ambient temperature. All self-limiting heating cables must be over-temperature protected by a thermostat, as the output will decrease, but never be zero, and be protected by a RCD with a maximum trip current of 30 mA.

EChatwatt ensures hot water in all taps and savings when circulation of the whole pipe system is unnecessary.

Product specifications

Benefits <ul style="list-style-type: none"> • Cut to length on site • Black version is UV protected • PVC free Compliance symbols:  Standard compliance <ul style="list-style-type: none"> • DIN VDE 0254: 1994-06 	Nominal voltage	230 V AC
	Nominal output (min-max): EChatwatt 45 EChatwatt 55 EChatwatt 70	7 W/m @ 45 °C (6,5-9,5 W/m @ 45 °C) 9 W/m @ 55 °C (8,5-13,0 W/m @ 55 °C) 12 W/m @ 70 °C (11,3-15,2 W/m @ 70 °C)
	Outer sheath: EChatwatt 45 EChatwatt 55 EChatwatt 70	Black, TPE Green, TPE Red, TPE
	Maximum permissible use temperature	80 °C, powered 100 °C, unpowered
	Minimum installation temperature	-5 °C
	Cable dimensions	11,8 mm × 5,8 mm
	Screen	Tinned copper braid, 1,25 mm ²
	Minimum braid coverage	70%
	Maximum resistance protective braid	18,2 Ω/Km
	Bending diameter, min.	50 mm (Ø to the inside of the cable)
	IP Class	IPX7

EChatwatt 45

Item no.	Type	Length	Min-max length per drum	Number of length allowed on drum, max	EAN no.
088L1360	EChatwatt 45	Drum, 305 m	305 m	1	5703466114360
088L1088	EChatwatt 45	Cut-to-length	max 305 m	1	5703466196816

EChatwatt 55

Item no.	Type	Length	Min-max length per drum	Number of length allowed on drum, max	EAN no.
088L1362	EChatwatt 55	Drum, 305 m	305 m	1	5703466114377
088L1090	EChatwatt 55	Cut-to-length	max 305 m	1	5703466196878

EChatwatt 70

Item no.	Type	Length	Min-max length per drum	Number of length allowed on drum, max	EAN no.
088L1364	EChatwatt 70	Drum, 305 m	305 m	1	5703466114384
088L1092	EChatwatt 70	Cut-to-length	max 305 m	1	5703466196892

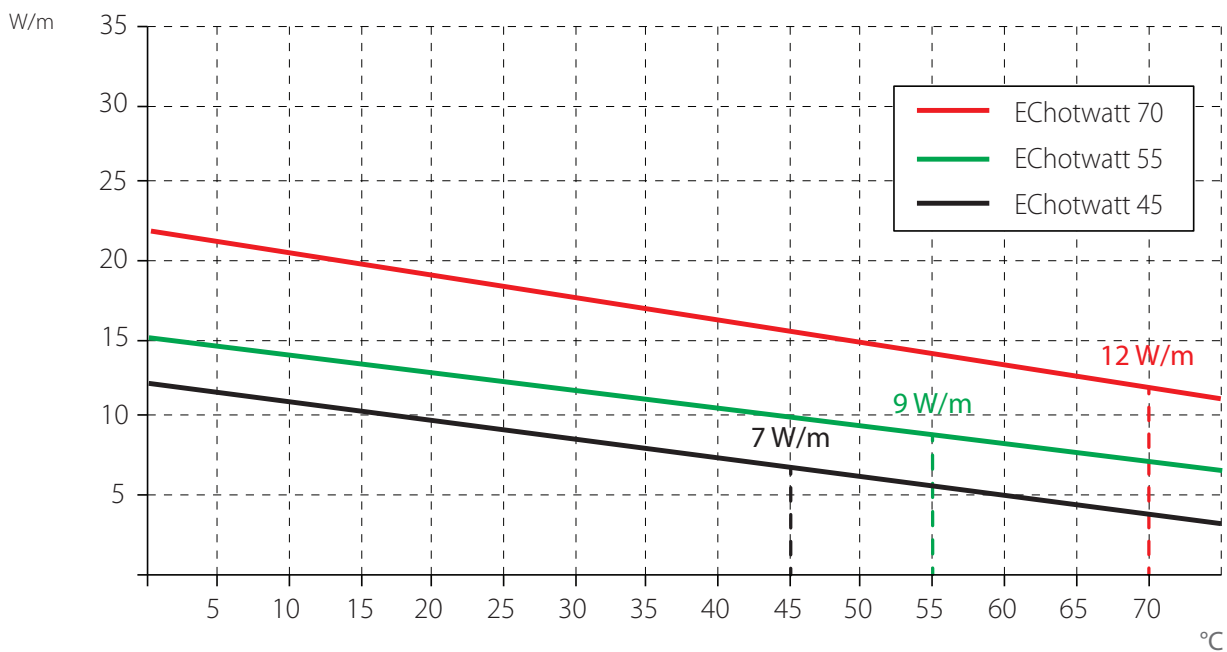
RCD of 30 mA is required, max. 500 m of self-limiting heating cable per RCD.

Maximum heating circuit length on a pipe, with circuit breaker with C-characteristic

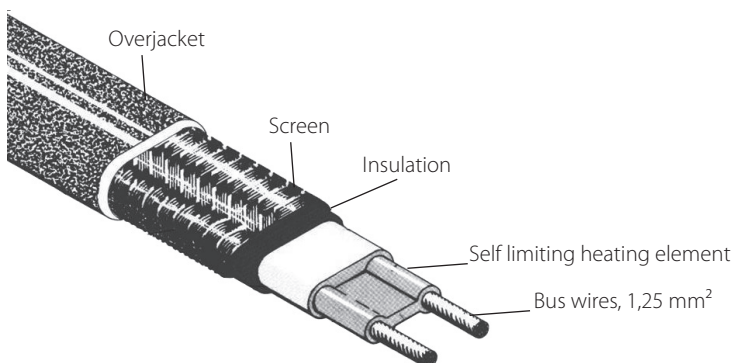
Switch on temperature	Power W/m	EHotwatt 45					Power W/m	EHotwatt 55					Power W/m	EHotwatt 70				
		10 A	16 A	20 A	25 A	32 A		10 A	16 A	20 A	25 A	32 A		10 A	16 A	20 A	25 A	32 A
20 °C	10,3	153	231	231	231	231	12,5	108	173	188	188	188	19,5	99	146	146	146	146
10 °C	11,6	144	230	231	231	231	13,5	102	164	188	188	188	21	71	113	142	146	146
-10 °C	14,3	129	203	231	231	231	15,5	93	148	185	188	188	24	45	72	90	113	143
-25 °C	16,3	119	191	231	231	231	17	86	138	173	188	188	26,3	37	64	80	103	133

Power output characteristic

Output of heating cable installed and measured on a pipe.



Construction



- Nickel plated copper bus wires
- Radiation Cross-Linked Semiconductive Heating Matrix
- Radiation Cross-Linked Primary Dielectric Insulation
- Tinned copper braid
- Polyolefin over jacket