

OSR-WA Medium Temperature Self-Regulating Heating Cable ELSR-WA



Features

Outer jacket

- Thermoplastic (AO, BO).

Bus wire

- Nickel plated copper.

Minimum start-up temperature

- -30 °C (-22 °F).

Maximum operating temperature (power on)

- 80 °C (176 °F).

Maximum continuous exposure temperature (power off)

- 90 °C (194 °F).

Nominal voltage

- 120V, 240/208V.

Bending radius, minimum

- 20 mm (3/4 in.).

Installation temperature, minimum

- -45 °C (-49 °F).

Classification

- Class I, Zone 1, AEx / Ex e II, T5.
- Class I, Division 2, Groups A, B, C, D.
- Class II, Division 1, Groups E, F, G.
- Class III, Division 1.

Standards

- IEEE 515, CSA 22.2 130.03.

Certification

- FM CUS 3050047.

Rating

- Wet rated, for outdoor use (WS).

Warranty

- 1-year basic warranty on the heating cable.

Application

- Freeze protection of heated lines or pipes, food processing industry, drain lines in canteens and large scale kitchens, hot water supply installations.

Models

Application	Nominal Output W/ft.	Product #		Outer jacket/Mechanical shield			Cable dimension approx. (mm)
		120V ^{1,3}	240V ^{1,2,3}	AO	BO		
When used for water supply lines	3	ELSR-WA-55-1-XX	ELSR-WA-55-2-XX	✓	✓		13.8 x 5.6
When used for water supply lines	5	ELSR-WA-65-1-XX	ELSR-WA-65-2-XX	✓	✓		13.8 x 5.6
When used with fat/oil lines	7	ELSR-WA-65-1-XX	ELSR-WA-65-2-XX	✓	✓		13.8 x 5.6

¹ XX = Outer jacket/Mechanical shield.

AO Aluminum foil and a thermoplastic outer jacket.

BO Protective braid and a thermoplastic outer jacket.

² For operations at 208V, please consult Correction Factors/Multipliers at next page.

³ When ordering, the quantity on the purchase order is equal to the length in feet of the cable required.

E.g.: To order a 500 ft. cable, write 500 for quantity with product code.

Custom cutting service available for all lengths other than 500 ft. and 1000 ft. (minimum of 25 ft.).

Options

See OSR Options and Controls section

OSR-WA

Heating circuit length for ELSR-WA models

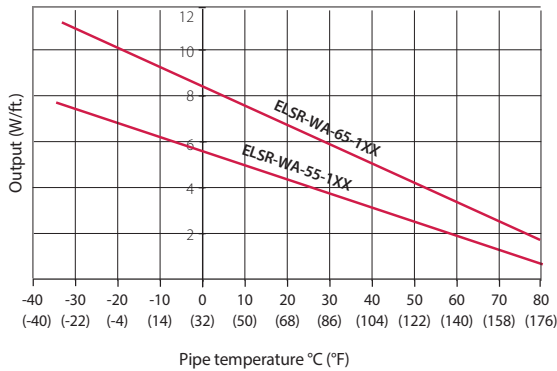
Start-up temperature	120V			240V		
	CB capacity (A)	Maximum heating circuit (ft.) for		CB capacity (A)	Maximum heating circuit (ft.) for	
		ELSR-WA-55-1	ELSR-WA-65-1		ELSR-WA-55-2	ELSR-WA-65-2
10 °C (50 °F)	10	144	97	10	231	149
	15	219	145	15	348	226
	20	246	194	20	430	302
	25	246	198	25	430	348
	30	246	198	30	430	348
0 °C (32 °F)	10	131	87	10	207	136
	15	197	133	15	312	203
	20	233	176	20	405	272
	25	233	189	25	405	326
-10 °C (14 °F)	30	233	189	30	405	326
	10	118	81	10	187	123
	15	180	121	15	279	184
	20	221	160	20	372	247
-30 °C (-22 °F)	25	221	180	25	384	310
	30	221	180	30	384	312
	10	102	68	10	158	105
	15	153	103	15	237	160
	20	202	139	20	315	212
	25	203	167	25	353	263
	30	203	167	30	353	286

Maximum heating circuit ELSR-WA-XX on the following conditions:

- 120/240 Voltage
- Voltage drop max. 10%
- MCB type QO (100% utilization)
- Single cable fed 1 end

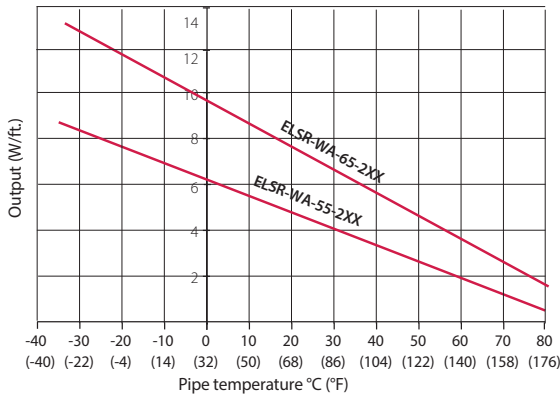
ELSR-WA-XX-1-XX output

(on insulated metallic pipes, in accordance with IEEE 515/CSA 22.2 130-03)



ELSR-WA-XX-2-XX output

(on insulated metallic pipes, in accordance with IEEE 515/CSA 22.2 130-03)



Eltherm® Correction Factors/Multipliers for Operation of Heating Cables in 208V

To calculate the corrected power output for operation in 208V, multiply the published output at 240V (in W/ft.) by the nominal output factor provided for the applicable heating cable type.

To calculate maximum heating circuit lengths for operation in 208V (tables provided in product data sheets), multiply the published max. heating circuit length at 240V provided for the applicable heating cable type.

Heating Cable Correction Factors/ Multipliers	Nominal Output 208V vs. 240V	Heating Circuit Length 208V vs. 240V
ELSR-WA-XX-2	0.80	1.00