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Self-regulating surface snow-melting and anti-icing heating cable

Raychem® ElectroMelt® provides surface snow melting and anti-icing in concrete pavement.

Self-regulating

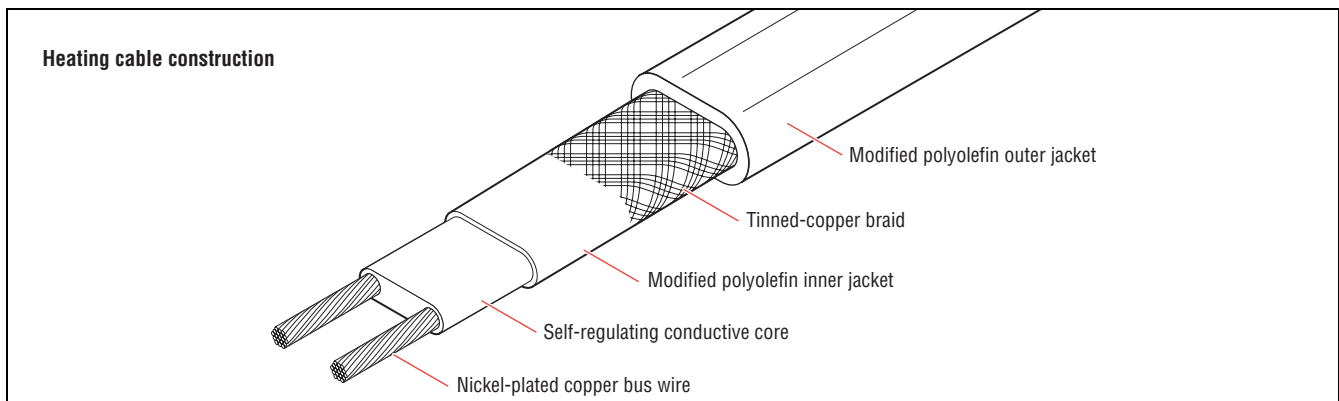
The polymer core of an ElectroMelt heating cable automatically adjusts power output at every point along its length in response to concrete pavement temperature. This response characteristic eliminates burnouts caused by overlapping cable and provides improved energy efficiency without the need for special controls.

Parallel circuitry

The crosslinked, conductive polymer core of the ElectroMelt heating cable is extruded between two 14 AWG copper bus wires, forming a parallel circuit. This allows ElectroMelt heating cables to be cut to length and to be spliced and repaired, if necessary, in the field.

Rugged

Specifically designed for direct burial in concrete, ElectroMelt heating cables are protected by a copper braid and encased in a 55-mil modified polyolefin outer jacket. With no exposed metal parts to corrode, no cold leads to fail, and no burnout due to overlaps or hot spots, rugged ElectroMelt heating cable offers the an ideal solution for all types of concrete pavement snow melting and anti-icing.



Catalog Number	EM2-XR		EM3-XR	
	Voltage	Power Output W/ft (W/m)	Voltage	Power Output W/ft (W/m)
Power Output W/ft (W/m)	208 V	30 (98)	347 V	24 (79)
	240 V	32 (105)		
	277 V	34 (112)		
Dimensions				
Maximum width	0.75 in (19 mm)		0.70 in (17.8 mm)	
Maximum thickness	0.38 in (10 mm)		0.31 in (7.9 mm)	
Minimum Installation Temperature	0°F (-18°C)		0°F (-18°C)	
Minimum Bend Radius	2 in (50 mm)		2 in (50 mm)	

Maximum Heating Cable Circuit Length for Startup at 20°F (-7°C) in ft (m)

Circuit Breaker	Heating cable supply voltage			
	208 V	240 V	277 V	347 V
15 Amp	80 (24)	85 (26)	100 (31)	120 (37)
20 Amp	105 (32)	115 (35)	130 (40)	165 (50)
30 Amp	160 (49)	170 (52)	195 (59)	250 (76)
40 Amp	210 (64)	230 (70)	260 (79)	330 (101)
50 Amp	265 (81)	285 (87)	325 (99)	†

Maximum Heating Cable Circuit Length for Startup at 0°F (-18°C) in ft (m)

Circuit Breaker	Heating cable supply voltage			
	208 V	240 V	277 V	347 V
15 Amp	75 (23)	80 (24)	90 (27)	107 (33)
20 Amp	100 (31)	110 (34)	120 (37)	148 (45)
30 Amp	145 (44)	160 (49)	180 (55)	225 (69)
40 Amp	200 (61)	210 (64)	240 (73)	288 (88)
50 Amp	245 (75)	265 (81)	300 (91)	†

† Not permitted

Bus Wires 14 AWG nickel-plated copper

Braid/Outer Jacket Heavy tinned-copper braid encased in a 55-mil modified polyolefin outer jacket

Nominal Weight 180 lb/1000 ft (268 kg/1000 m)

Connection Kits Raychem ElectroMelt connection kits must be used to terminate ElectroMelt heating cables. Refer to the *Surface Snow Melting and Anti-Icing Design Guide – ElectroMelt (H53393)* for proper connection kit selection.

Approvals



877Z De-icing and Snow-melting Equipment (for EM2-XR only)



The EM2-XR and EM3-XR heating cables are UL Listed and CSA Certified only when used with the appropriate agency-approved Tyco Thermal Controls connection kits and accessories.

Ground-Fault Protection

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of Tyco Thermal Controls, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection.

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