Self-Regulating Floor Warming Heating Cable

The Raychem® RaySol® System is designed for the following floor warming applications:

Heat-loss replacement– replaces heat in concrete floors built over garages, loading docks, arcades and other cold spaces. The cable is placed in embedded conduit, or attached to the bottom of concrete floors.

Concrete floor warming– warms concrete floors in bathrooms, foyers, schools and gymnasiums. The cable is placed in embedded conduit, or attached to the bottom of concrete floors.

Tile and marble floor-warming– warms tile and marble floors in bath rooms and foyers. The cable is embedded in mortar under the tile and marble.

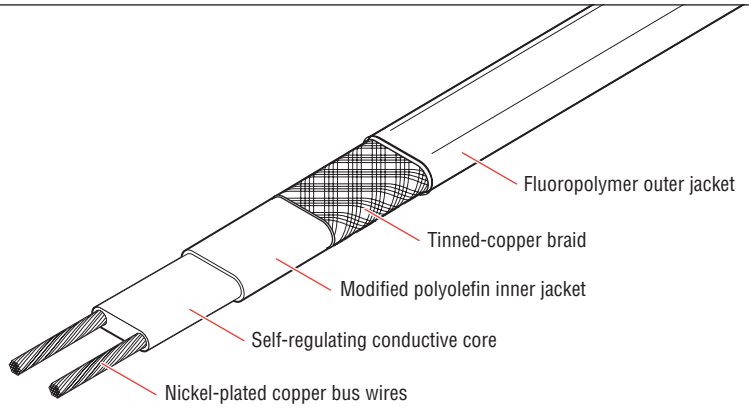
Freezer frost heave prevention– prevents heaving in soils under freezers, refrigerated warehouses and cold rooms. The cable is placed in conduit buried in soil or in the subflooring under the freezer floor.

Efficient and economical to operate

Because it's self-regulating, a RaySol system will supply the right heat only where and when it is needed. The radiant heat provided by the RaySol heating cable allows you to feel comfortable at lower air temperatures, resulting in lower heating costs.

Your Tyco Thermal Controls representative can provide design assistance and help you install the product that meets your goals for an efficient, cost-effective floor warming system.

Heating cable construction



Catalog number	RAYSOL-1	RAYSOL-2
Voltage	120 V	208 – 277 V
Minimum bend radius	5/8 in. (16 mm)	5/8 in. (16 mm)

Maximum circuit length in feet (meters)

		Cable operating voltage				
		120 V	208 V	220 V	240 V	277 V
Conduit or surface mounted	30 amps	240 (80)	410 (135)	410 (135)	425 (140)	430 (140)
	20 amps	160 (50)	275 (90)	275 (90)	280 (90)	290 (95)
	15 amps	120 (40)	205 (65)	205 (70)	210 (70)	215 (70)
		Cable operating voltage				
		120 V	**208 V**	**220 V**	**240 V**	**277 V**
Embedded in concrete	30 amps	160 (50)	275 (90)	275 (90)	280 (90)	290 (95)
	20 amps	105 (35)	185 (60)	185 (60)	190 (60)	190 (60)
	15 amps	80 (25)	140 (45)	140 (45)	140 (45)	145 (50)

*For start-up temperatures less than 40°F, contact your Tyco Thermal Controls representative.

Connection Kits

Raychem RayClic-E, FTC-P, FTC-XC, and FTC-HST components must be used to connect and to terminate RaySol heating cables. Refer to the *RaySol System Design Guide* (H54994) for proper connection kit selection.

Bus wires

16 AWG nickel-plated copper

Braid/outer jacket

Tinned-copper braid with fluoropolymer outer jacket

Dimensions

Maximum width	0.54 in. (14 mm)
Maximum thickness	0.24 in. (6 mm)

Nominal weight

92 lb/1000 ft (137 kg/1000 m)

Approvals

UL LISTED 9J86 Radiant Heating Cable

CSA DESIG. 1B

RaySol heating cables are UL Listed and CSA Certified when used with the appropriate agency-approved Raychem components 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 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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Important: *All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their particular application. Tyco Thermal Controls makes no warranties as to the accuracy or completeness of the information, and disclaims any liability regarding its use. Tyco Thermal Controls' only obligations are those in the Tyco Thermal Controls Standard Terms and Conditions of Sale for this product, and in no case will Tyco Thermal Controls or its distributors be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of the product. Specifications are subject to change without notice. In addition, Tyco Thermal Controls reserves the right to make changes—without notification to Buyer—to processing or materials that do not affect compliance with any applicable specification.*

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