KSR™
Self-Regulating Heating Cable

Product Specifications

Application: Snow and Ice Melting

KSR self-regulating heating cables are an integral part of Thermon's SnoTrace™ snow and ice melting systems. Designed and approved specifically for direct burial, KSR cable withstands the abuse encountered during concrete placement.

The self-regulating heat output of KSR cable varies in response to the surrounding concrete temperatures. When the concrete is at or below freezing temperatures, KSR will deliver the maximum power output. As the concrete warms-up, the power output of the cable will decrease. Energy efficiency can be accomplished without special or sophisticated controls.

Easy to Design . . .

Determining the circuit layout of KSR cable for a snow and ice melting system is easy. The step-by-step design guide leads the reader through determining the heating requirements, selecting the cable spacing and establishing the number of heating circuits and accessories required to complete the SnoTrace system. (For more information, refer to the SnoTrace KSR Design Guide, Form CPD1057.)

With cut-to-length parallel circuitry, KSR cables are easily adapted to variations in design found at the job site. This can reduce or eliminate the need to redesign circuits off-site without details or sufficient time to react.

Easy to Install . . .

The demanding environment associated with forms, reinforcing steel and concrete placement requires that the cable be rugged. The fluoropolymer jacketed KSR with an additional silicone rubber outer jacket provides the needed durability. Yet it is flexible enough to adapt to steps, curved walkways, landings or other confined areas.

Installing and terminating the cable is easy. Simply unreel the amount of cable needed for the area/circuit and terminate with Thermon circuit fabrication kits and accessories. Power connection, splice kits, end termination and expansion joint kits are all designed specifically for the demanding application.

THERMON®

ISO 9001 REGISTERED

THERMON . . . The Heat Tracing Specialists®

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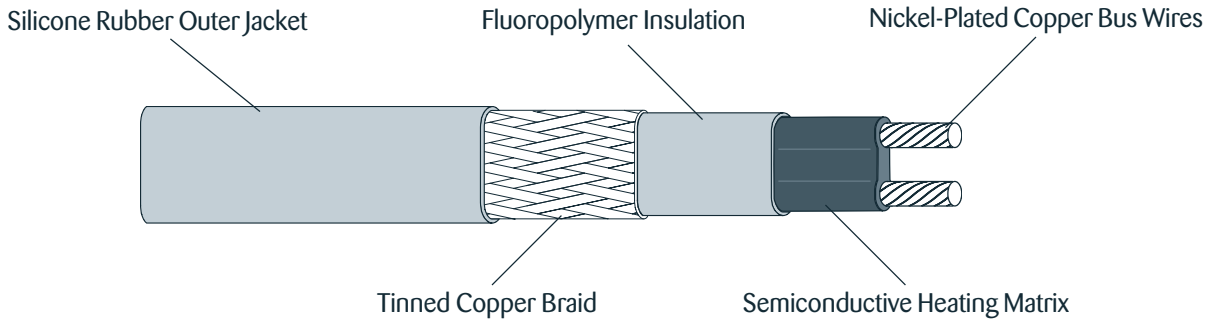
Characteristics . . .



Bus wire ..... 16 AWG nickel-plated copper
Heating core ..... semiconductive heating matrix
Primary dielectric insulation ..... high performance fluoropolymer
Metallic braid ..... tinned copper
Outer jacket ..... silicone rubber
Maximum Temperature Exposure ..... 350°F (177°C)
Minimum bend radius ..... 1.25" (32 mm)
Supply voltage ..... 208-277 Vac
Circuit protection ..... 30 mA ground-fault protection required

Cable Selection[1] . . .

Catalog Number	Start-Up Temperature	Operating Voltage	Installation Method	Maximum Circuit Length vs. Breaker Size 15 Amp	20 Amp	30 Amp	40 Amp
KSR-2	0°F (-18°C)	208 Vac	Direct Burial	80' (24 m)	105' (32 m)	160' (49 m)	210' (64 m)
KSR-2	0°F (-18°C)	220 Vac	Direct Burial	80' (24 m)	105' (32 m)	165' (50 m)	215' (66 m)
KSR-2	0°F (-18°C)	240 Vac	Direct Burial	85' (26 m)	110' (34 m)	170' (52 m)	225' (69 m)
KSR-3	0°F (-18°C)	277 Vac	Direct Burial	100' (30 m)	135' (41 m)	205' (62 m)	270' (82 m)
KSR-2	20°F (-7°C)	208 Vac	Direct Burial	85' (26 m)	110' (34 m)	165' (50 m)	220' (67 m)
KSR-2	20°F (-7°C)	220 Vac	Direct Burial	85' (26 m)	110' (34 m)	170' (52 m)	225' (69 m)
KSR-2	20°F (-7°C)	240 Vac	Direct Burial	90' (27 m)	120' (37 m)	180' (55 m)	225' (69 m)
KSR-3	20°F (-7°C)	277 Vac	Direct Burial	110' (34 m)	150' (46 m)	225' (69 m)	270' (82 m)

KSR Cables Meet or Exceed the Following Requirements[2] . . .

Test	Standard Followed
Water Resistance Test	IEEE 515.1 (4.2.2), CSA 130.2 (6.1.8)
Cold Impact	IEEE 515.1 (4.2.9), CSA 130.2(6.1.10)
Cold Bend	IEEE 515.1 (4.2.10), CSA 130.2 (6.3.6)
Deformation	IEEE 515.1 (4.2.8), CSA 130.2(6.1.7.4)
Flammability	IEEE 515.1 (4.2.7)
Resistance to Cutting	IEEE 515.1 (4.3.3), CSA 130.2(6.1.6)
Resistance to Crushing	IEEE 515.1 (4.4.2)
Thermal Stability	IEEE 515.1 (4.2.6)

UL LISTED

Underwriters Laboratories Inc.
5N23 De-Icing and Snow-Melting Equipment (KOBQ).

Canadian Standards Association
Certified Snow Melting Equipment for Applications Having a Type Designation of 2B

Notes . . .

1. For design and installation requirements, refer to SnoTrace KSR Design Guide, Form CPD1057, or contact Thermon for assistance.
2. For other approvals and certifications requirements, contact Thermon for assistance.

Form CPD1056-0105 Printed in U.S.A.