

## Glass silk heating cord

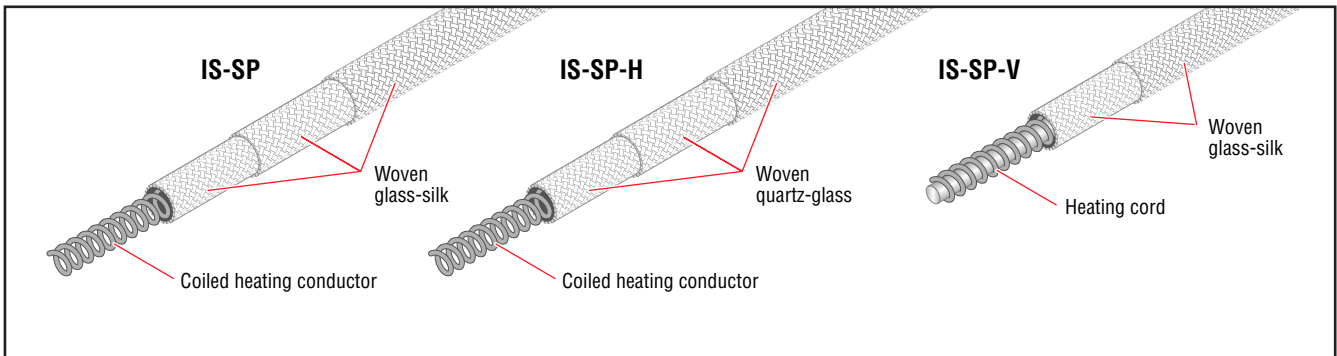
Isopad IS-SP is a preterminated, very flexible heating cord consisting of a glass silk insulated, flexible fabric weave with interior heating conductors. IS-SP-H is a higher temperature variant and SP-V is made with a central core to the spiral heating element.

The temperature depends on the power and application. Please make sure that the heating cord does not exceed the maximum withstand temperature.

Owing to its small dimensions, the heating cord is used for heating up and

compensating for heat loss on short pipes, glass apparatus, or other structures, mainly for laboratory requirements.

The heating cord is not moisture-protected and must only be used in dry areas.



### Area Specifications

Area classification	Nonhazardous, ordinary area
Ingress protection	IP20
Electrical protection class	See note
Maximum withstand temperature (power off)	450°C for IS-SP and IS-SP-V, 900°C for IS-SP-H
Storage temperature	-40 to +50°C
Minimum installation temperature	-40°C

Note: These are components for further installation. The protective arrangements of Protection Class I or Class II must be followed during installation of the components and are the responsibility of the assembly company. Please refer to the manual for further information.

### Standard Manufacturing Sizes

Outer diameter (OD)	Maximum 6 mm
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### Heater Construction

Type	Resistance heating cable
Material	Nickel-chrome-alloy
Material of insulation	Glass-silk for IS-SP and IS-SP-V, quartz-glass for IS-SP-H
Material of outer sheath	Woven glass-silk for IS-SP and IS-SP-V, woven quartz-glass for IS-SP-H

### Lead Connection

Connection length	Terminated at each end with a 1.5 m cold lead
Cross section	1.0 mm <sup>2</sup> for IS-SP and IS-SP-V, 1.5 mm <sup>2</sup> for IS-SP-H
Maximum operating temperature	200°C for IS-SP and IS-SP-V, 450°C for IS-SP-H
Insulation material	Silicone-glass-silk for IS-SP and IS-SP-V, glass-silk for IS-SP-H

**Technical Data**

Frequency	50-60 Hz
Nominal operating voltage	230 Vac
Power per meter	170 W/m for IS-SP and IS-SP-V, 450 W/m for IS-SP-H depending on the application
Maximum operating temperature	450°C for IS-SP and IS-SP-V, 900°C for IS-SP-H
Minimum bend radius	5 mm
Minimum spacing	5 mm

**Ordering Information**

	Part number	Length <sup>(1)</sup> (m)	Nominal Power <sup>(2)</sup> (W)	Nominal Voltage (Vac)
	175192-000	0.5	50	230
	209402-000	1.0	160	230
	490504-000	1.5	220	230
<b>These part numbers are for IS-SP only. IS-SP-V and IS-SP-H variants, other lengths and power specifications, etc., available upon request</b>	030246-000	2.0	330	230
	217452-000	2.5	380	230
	920078-000	3.0	490	230
	610730-000	4.0	600	230
	927312-000	5.0	710	230
	514784-000	6.0	820	230

<sup>(1)</sup> Tolerances <2.0 m ± (1% + 50 mm)  
>2.0 m ± (2% + 100 mm)

<sup>(2)</sup> Tolerances ±10%