

SST & QST Split Sheath Insertion Heaters

- 3/8 - 1 Inch Diameter
- 5 - 60 Inch Lengths (SST)
- 5 - 36 Inch Lengths (QST)
- Sheath Temperatures up to 1600°F (871°C)

Applications

- Platens
- Presses
- Dies
- Molds

Description

The SST and QST Split Sheath Insertion Heaters are designed especially for platen, die or mold heating applications where the holes are poorly drilled or worn through age. Independent expansion of each section of the SST and QST when energized, creates intimate contact with the wall of the hole

- Split Sheath design
- Improved conductive heater
- Easily inserted and removed from long holes
- Incoloy® Sheath for long life at extreme temperatures
- Compacted to maximum density for excellent element to sheath heat transfer and dielectric strength

SST Split Sheath Insertion Heater

Fig. 001



Fig. 20C QST Quad Sheath Insertion Heater

Terminations

Flexible Leads – SST & QST are available with flexible lead wires machine connected to the terminal pins, for temperatures to 850°F (450°C). 12" length is standard. Specify longer length.

Screw Terminals – SST and QST are available with standard 8/32 x 1" welded nickel plated steel studs. Easy terminal connections are made using lugs, leads or bus bar. Stainless steel, and other thread sizes or lengths are available. Consult Omega sales.



Unenergized SST



Energized SST



Unenergized QST



Energized QST

Tolerances and Limitations						
Nominal Sheath Diameter	3/8"	1/2"	5/8"	11/16"	3/4"	1"
Actual Sheath Diameter (±.003)	.370"	.495"	.620"	.682"	.745"	.995"
Minimum Sheath Length	5"	5"	5"	5"	5"	5"
Maximum Sheath Length – SST	60"	60"	60"	60"	60"	60"
Maximum Sheath Length – QST	N/A	36"	36"	36"	36"	N/A
Minimum Ohms/inch of EHL*	SST .278	.308	.296	.296	.350	.350
	QST -	.593	.593	.593	.593	-
Maximum Ohms/inch of EHL*	SST 11	21	21	21	26	26
	QST -	38	38	38	38	-
Maximum Standard Voltage		240	240	240	480	480
Maximum Amperage	SST 15	30	40	40	40	40
	QST -	30	30	30	30	-
Wattage						+5% – 10%
Resistance						+10% – 5%
Sheath Length						±3% up to 20"; ±2% over 20"

*EHL: Effective Heat Length

SST & QST Split Sheath Insertion Heaters (cont'd.)

Fig. 04C Stainless Steel Armor CableLead Protection

Armor Cable is the best protection against abrasion or other damage to lead wires. A straight transition adapter with 12" stainless steel armor cable and 14" lead wires is standard. Specify longer length.

Fig. 15C Right Angle Stainless Steel Armor Cable Lead Protection

Figure 15C Shows an SST Insertion Heater with right angle stainless steel armor cable protect leads. Figure DS is for use where spacing is limited and for wiring convenience. 12" cable and 14" overall lengths are standard. Specify longer length.

Fig. 17C Right Angle Flexible Stainless Steel Braided Leads

Figure 17C right angle flexible stainless steel braid protects lead wires from abrasion and are full length flexible at right angle orientation for installations with limited spacing. 12" stainless steel braid with 14" leads are standard. Specify longer length.

Fig. 10C Mounting Flange

Figure 10Cw is a stop washer or mounting flange. Specify distance from lead end, outside diameter and mounting hole centers, if required.

Adaptor Dimensions

SST or QST* Diameter	Figures 04C, 15C, 13C & 17C	Cable O.D.*
3/8"	5/8" x 1-1/2"	15/32
1/2"	5/8" x 1-1/2"	
5/8"	3/4" x 1-1/2"	
11/16"	3/4" x 1-1/2"	
3/4"	7/8" x 1-1/2"	
1"	1-1/8" x 1-1/2"	

* QST (QUAD) N/A in 3/8" Diameter

** Not applicable to Fig. 13C or Fig. 17C



Ordering Information

To Order — Complete the Model Number using the Matrix provided.

Model

SST Single Split-Sheath Cartridge Heater

QST Quad Split-Sheath Cartridge Heater

Code Nominal Sheath Diameter

375	3/8" (QST not available)
500	1/2"
625	5/8"
687	11/16"
750	3/4"
1000	1"

Code Insertion Length (inches of shaft)

mm Enter desired shaft insertion length

Code Voltage

120	120 Vac	480	480 Vac
240	240 Vac	5	Other (Consult Sales)
380	380 Vac		

Code Wattage

XXXX

Code Termination Option

001	12" Leadwire
10C	Mounting flange/stop washer
15C	Right angle fitting with flexible stainless steel armor cable (transition 1-1/2" in length)
40C	Straight Flexible Stainless Steel Armor Cable Fitting (transition 1-1/2" in length)
17C	Right angle fitting with stainless steel braided lead protection (transition 1-1/2" in length)
13C	Straight flexible stainless steel braided lead protection (transition 1-1/2" in length)
20C	Threaded post terminal connection

SST 375 6 120 1000 15C Typical Model Number