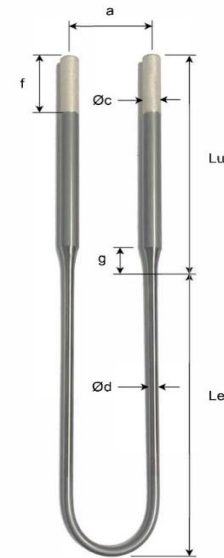


MoSi₂ Heating Element

Element Standard Sizes

Element Size (mm)	a (mm)		Le Ø (mm)	Lu Ø (mm)	g (mm)	f (mm)
	Min.	Std.				
3/6	20	25	3	6	15	25
4/9	20	25	4	9	15	40
6/12	40	50	6	12	25	40
9/18	50	60	9	18	30	75
12/24	60	80	12	24	40	100

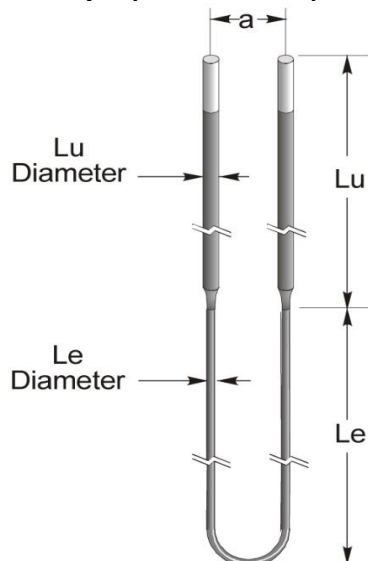


Notes:

Le: Element hot end length
 Lu: Element cold end length
 a: Center to center distance between legs
 Øc: Cold end diameter
 Ød: Hot end diameter
 g: Taper distance
 f: Metalized end length

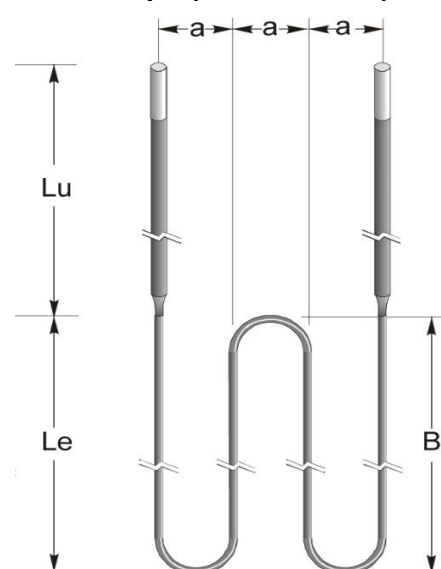
Element Shapes

U Shape (Two-Shanks)



Available in all sizes

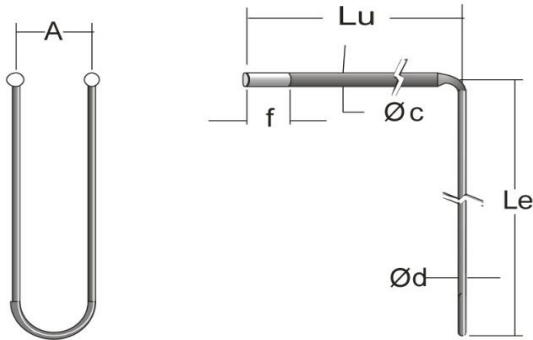
W Shape (Multi-Shanks)



Available in all sizes

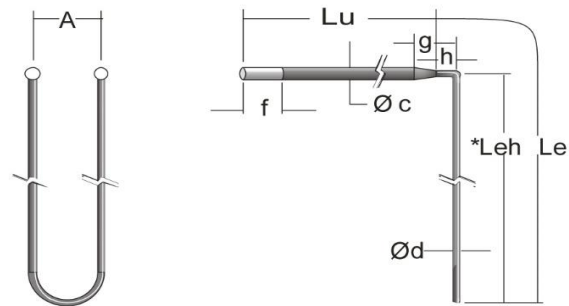
MoSi₂ Heating Element

90° Bend in Le



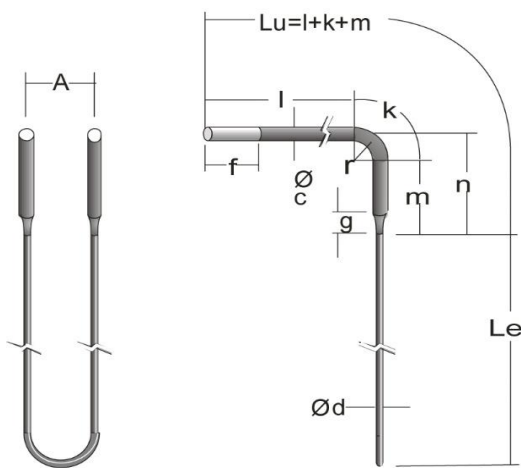
Available in 3/6, 4/9

90° Bend in Le



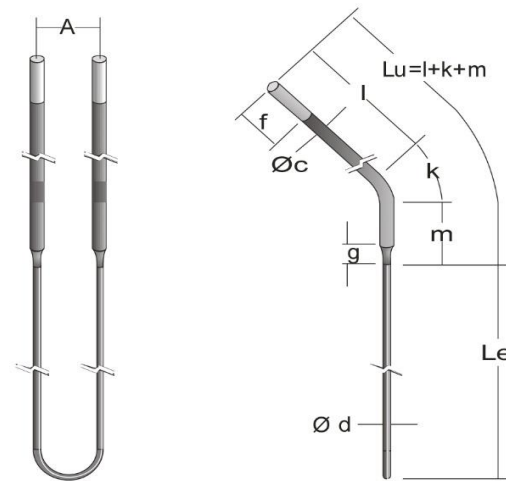
Available in 6/12, 9/18
 *Leh for 6/12=Le - 6mm
 *Leh for 9/18=Le - 9mm
 h for 6/12=15mm
 h for 9/18=20mm

90° Bend in Lu



Available in all sizes

45° Bend in Lu



Available in all sizes

Element Max. Temperature (under air)

Element Type	Max. Temperature		
	1700°C	1800°C	1850°C
3/6	√	√	√
4/9	√	√	√
6/12	√	√	√
9/18	√	√	√
12/24	√	√	x

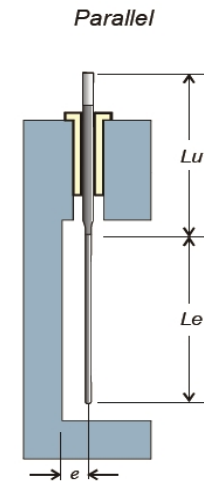
MoSi₂ Heating Element

Installation

Hot end distance to furnace wall (Parallel Installation)

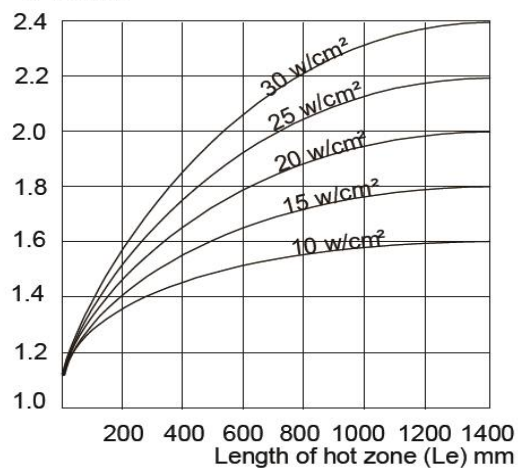
Hot end center to furnace wall (e)

Le Length (mm)	e (mm)
Le ≤ 300	15
300 < Le ≤ 1000	Lex5%
Le > 1000	≥ 50



Hot end distance to furnace wall (Perpendicular Installation)

f Factor

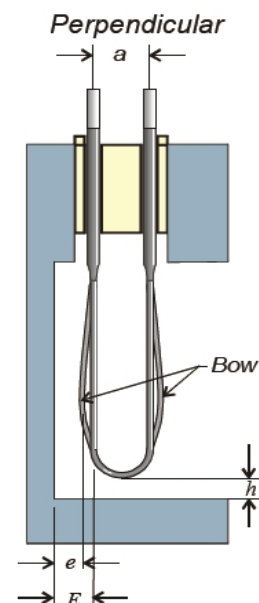


Value, *f*, one of the factors used to determine the distance to wall in the direction of the bow caused by the electro magnetic forces.

E: Min.distance to furance wall after bowing
e: Min.distance to furance wall before bowing

Bow factor = a x f

E = e + (axf)/2 - a/2



Hot end distance to floor (H)

Le Length (mm)	H (mm)
Le ≤ 200	10
Le > 200	Lex5%

Special Notes

*Initial use: New elements shall be brought to temperature at least 1200°C or higher quickly in air to form a protective layer of SiO₂ on surface

*Installation: Elements shall be properly installed to count in the lengthening and bowing effect during heating.

*TDS on request