


Cartridge Heaters

Flanged / Flanged, Lead Wire Selectable

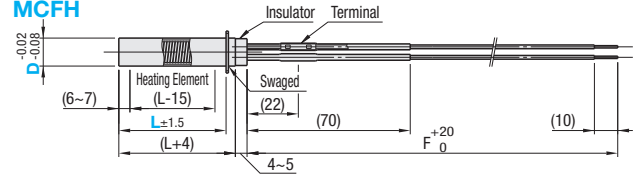
Be sure to refer to "Precautions for Use" in the Cartridge Heater Overview on P.1605.

Flanged

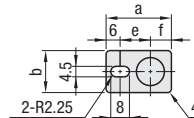


RoHS 10

MCFH



⚠ When D=9.42 or 12.6, the O.D. tolerance will be +0.05 - 0.
 ⚠ For D6 and D8, the position of the terminal (22) is (17) and (37) with shifting two terminals.
 ⚠ Insulator is not attached for D=D6.
 ⚠ Maximum Operating Temperature: 600°C
 ⚠ Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.



D	a	b	e	f
6	22	12	10	6
8-12.6	28	18	13	9
14	30	20	14	10

Ⓜ Material Heater : SUS321
 Terminal : Copper
 Lead Wire : Nickel (Ni)
 Lead Wire Film : Glass Braid
 Lead Wire Heat Resistance Temperature: 180°C

Part Number Type	D	L 1mm Increment	V (Voltage) Selection	W (Electric Power) 10W Increment	F (Lead Wire Length)	Electrical Power Density (W/cm ²)	Unit Price							
							L50-100	L101-200	L201-300	L301-400	L401-500	L501-600		
MCFH	6	50-250	100	50- 500	1000	$2 \leq W/cm^2 \leq 15$ $W/cm^2 = \frac{W}{D \pi (L-15)/100}$ (Calculate with the electrical power density of heat-generating part, not with the overall length.)								
			110	50- 500										
			200	60- 600										
			220	80- 600										
			100	50- 600										
			110	50- 600										
	8	50-400	200	50-1200										
			220	70-1200										
			200	50- 600										
			110	50- 600										
			220	70-1200										
			100	50- 600										
	9.42 (3/8 inch)	50-400	220	70-1200										
			100	50- 600										
			110	50- 600										
			200	50-1200										
			220	70-1200										
			100	50- 600										
	10	50-600	110	50- 600										
			200	50-1200										
			220	70-1200										
			100	50- 800										
			110	50- 800										
			200	50-1600										
12	50-600	220	70-1600											
		100	50- 800											
		110	50- 800											
		200	50-1600											
		220	70-1600											
		100	50- 800											
12.6 (1/2 inch)	50-600	110	50- 800											
		200	50-1600											
		220	70-1600											
		100	50- 800											
		110	50- 800											
		200	50-1600											
14	50-600	220	80-1600											
		100	50- 800											
		110	50- 800											
		200	50-1600											
		220	80-1600											
		100	50- 800											

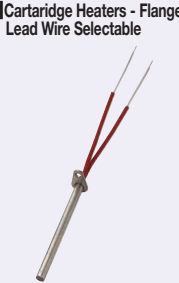
- Features**

 - Cartridge heater with a flange mounted on the end section. The heater can be easily secured with M4 bolts.
 - Prevent the Cartridge Heater from falling off from the device.

Precautions for Use

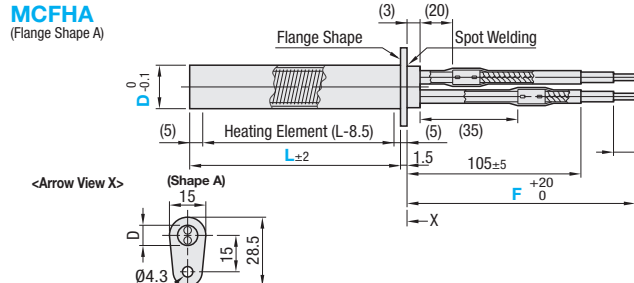
 - ⚠ Do not let the heaters run idle in the atmosphere. If the heater is used with some or the whole of the heating element projected from the heated objects, the wire may break or ignite due to abnormal heating.

Cartridge Heaters - Flanged, Lead Wire Selectable



RoHS 10

MCFHA
(Flange Shape A)



⚠ Maximum Operating Temperature: 600°C
 ⚠ Maximum Operating Temperature means value at the sheath part. Please pay attention to Lead Wire Heat Resistance Temperature and be sure to put the lead wire out of the mounting hole.

Terminal

- N (No Crimp Terminal)
- M (With Round Crimp Terminal)
- Y (With Crimp Spade)

Ⓜ Material Heater : SUS304
 Lead Wire: See Below
 Terminal : Copper (Tin Plating)
 Flange : Stainless Steel

Part Number Type	D	L 1mm Increment	V (Voltage) Selection	W (Electric Power) 10W Increment	F (Lead Wire Length)		Terminal	Electrical Power Density (W/cm ²)
					Lead Wire Type	10mm Increment		
MCFHA	8	50-400	100	50- 600	B	100-1000	N M Y	$2 \leq W/cm^2 \leq 15$ $W/cm^2 = \frac{W}{D \pi (L-8.5)/100}$ (Calculate with the electrical power density of heat-generating part, not with the overall length.)
			200	50-1200	G			
			220	80- 600	T			
	10	50-600	100	50- 800	M			
			110	50- 800				
			200	50-1600				

Type of Lead Wire

Symbol	Type of Lead Wire	Heat Resistance Temperature	Features
B	Tin Plated Annealed Copper Fiber Glass Braided Wire	180°C	General Use
G	Silicon Rubber + Tin Plated Annealed Copper Wire	180°C	For chemical and water resistant items
T	Teflon + Nickel Plated Annealed Copper Wire	260°C	For chemical, water and weather resistant items
M	Mica Polyimide-Wound Silica + Nickel Coated Copper Wire	400°C	For heat resistant items

Type of Terminal

Symbol	Type of Terminal	Nominal Screw
N	No Crimp Terminal	
M	Crimp Terminal - Round	M4
Y	Crimp Terminal - Y-Shaped	M4

D	Heater Body Price						Additional Lead Wire Price (Body Price +)				Additional Terminal Price (Body Price +)			
	L50-100	L101-200	L201-300	L301-400	L401-500	L501-600	B	G	T	M	N	M	Y	
8														
10														
12														

Ordering Example

Part Number - L - V - W - F Lead Wire - Terminal

Lead Wire Type Length

MCFHA12 - 300 - V100 - W350 - M 1000 - Y

- Precautions for Use**
- ⚠ Do not let the heaters run idle in the atmosphere. If the heater is used with some or the whole of the heating element projected from the heated objects, the wire may break or ignite due to abnormal heating.
 - ⚠ Keep the temperature around the flange at 180°C or less.
 - ⚠ Keep the temperature around the lead wire exit at 130°C or less.