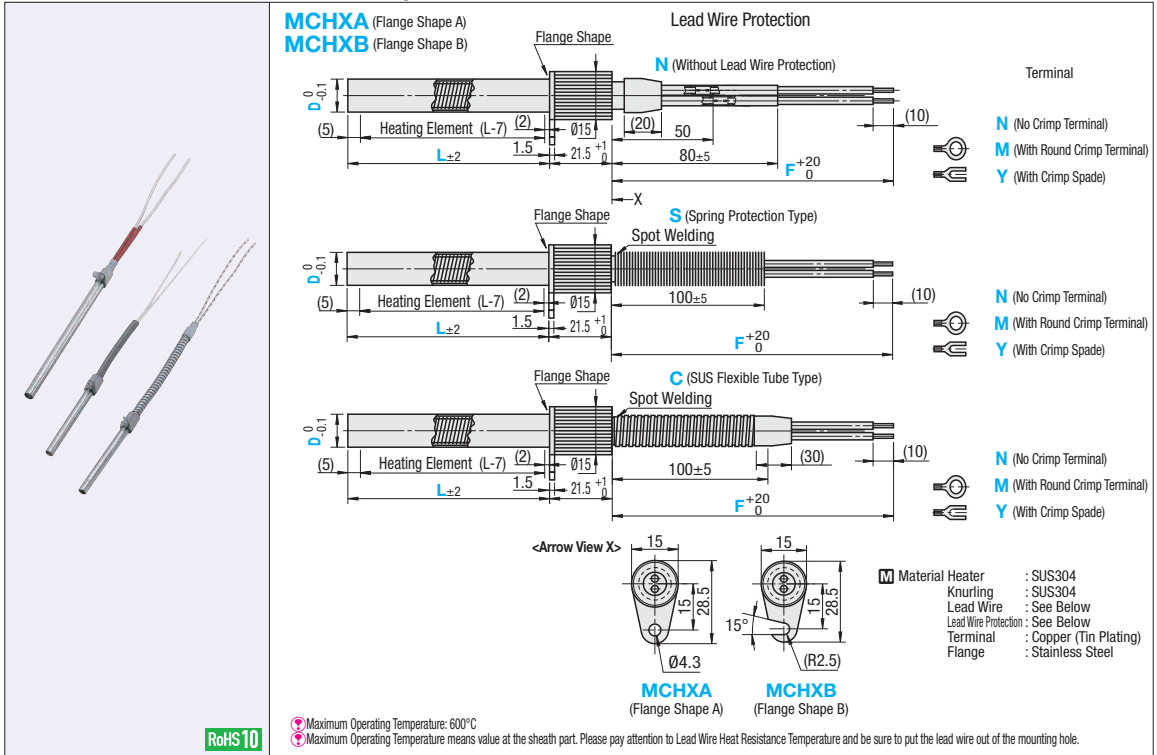


Cartridge Heaters

Wire Protection Type with Knurled Flange

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



Lead Wire Protection Type with Knurled Flange

Part Number	D	L 1mm Increment	V (Voltage) Selection	W (Electric Power) 10W Increment	F (Lead Wire Length)		Lead Wire Protection Selection	Terminal	Electrical Power Density (W/cm ²)
					Lead Wire Type	10mm Increment			
MCHXA MCHXB	8	50~400	100	50~600	B G T M	100~1000	N S C	N M Y	$2 \leq W/cm^2 \leq 15$ Ⓜ $W/cm^2 = W / (D \times (L-7) / 100)$ (Calculate with the electrical power density of heat-generating part, not with the overall length.)
			200	50~1200					
			10	50~600					
	200	50~1200							
	12	100	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

Lead Wire Protection

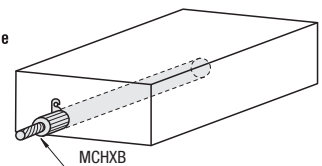
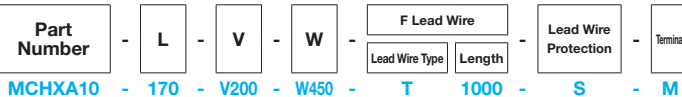
Symbol	Lead Wire Protection	Material	Attaching Portion
N	Without Lead Wire Protection	-	-
S	Spring Protection	Stainless Steel	Spring 100 mm
C	Stainless Steel Flexible Tube	Stainless Steel	Stainless Steel Flexible Tube 100mm

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 knurled head at 180°C or less.
- Ⓜ Do not pull or twist the lead wire, the spring, or the stainless steel flexible tube.



Ordering Example



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