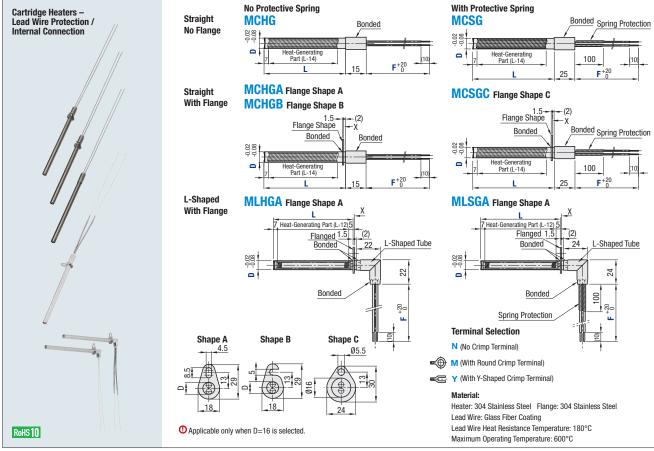
Cartridge Heaters

Lead Wire Protection / Internal Connection





Part Number		L 1 mm Increment		V (Vol	ltage) ction		(Electrical Power)	F (Lead Wire Length)	Terminal Selection
Туре	D		400 440		10 W Increment	10 mm Increment			
	8		100	110	000	000	50-500		
No Protective Spring MCHG	_	50–400	100		200	220	50-1100	300–1000	N M Y
	10 12 16		100	110			50-600		
					200	220	50-1600		
With Dont - No.			100	110			50-900		
With Protective Spring MCSG					200	220	50-1800		
			100	110			50-1000		
					200	220	50-2000		
		1							
Part Number		L	V (Voltage)			W (Electrical Power)	(Floatrical Power) F (Lead Wire Length)		
Туре	D	1 mm Increment	Selection			10 W Increment	10 mm Increment	Selection	
No Protective	Q		100	110			50-500		

300-1000 **MLHGA** With Protective Spring 200 220 50-2000

O 2≤W/cm²≤15 W/cm²=W{/D∞(L-14) */100} *L-12 for Shape L (Calculate with the electrical power density of heat-generating part, not with the full length.)



Part Number

- V200 - W250 -

① Please refer to "Precautions for Use" in the Cartridge Heaters Overview on P.3704.

Precautions for Use

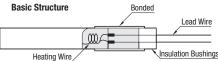
- Do not let heater run idle in the atmosphere. Operating the heater when heat-generating part is out of heated products, the wire may break due to abnormal heating.
- Keep the temperature around the lead wire exit at 180°C or less.
- Cartridge Heater with protective spring is recommended for a use at a moving part

Type of Terminal

Symbols	Type of Terminal	Nominal Size of Screw		
N	No Crimp Terminal	_		
M	Crimp Terminal – Round Type	M4		
Υ	Crimp Terminal – Y-Shaped	M4		

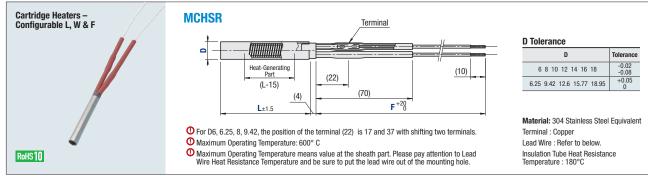
Features

- Heat generating wire and lead wire are connected in stainless steel sheath.
- Since crimp terminal is not exposed, it has stronger structure against breakage due to bending and vibration



Cartridge Heaters

Configurable L, W & F



Part Number		L 5mm	V (Voltage)	W (Electric	F (Lead V	Vire)	Electrical Power
Туре	D	Increments	v (voitage)	Power) 10W Increment	Lead Wire Type	10mm Increment	Density (W/cm
	6		100	50-500			● 2≤W/cm²≤15 W/cm²= W/clowlate with the electrical power density of heat-generating part, not with the overall length.
		50–250	110	50-500	G Silicon Rubber Wire		
			200	60-600			
			220	80-600			
			100	50-500			
	6.25 1/4 inch		110	50-500			
			200	60-600			
			220	80-600			
			100	50-600			
	8		110 200	50-600 50-1200			
			220	70–1200			
		50-400	100	50-600			
	0.40		110	50-600			
	9.42 3/8 inch		200	50-1200			
			220	70–1200			
			100	50-600			
			110	50-600			
	10		200	50-1200			
			220	70–1200		100–1000	
			100	50-800			
	12		110	50-800			
			200	50-1600			
MOUCD			220	70-1600			
MCHSR			100	50-800			
	12.6		110	50-800			
	1/2 inch	- 50–600	200	50-1600			
			220	70–1600			
	14		100	50-800			
			110	50-800			
			200	60-1600			
			220	80–1600			
	15.77 5/8 inch		100	50-800			
			110	60-800			
			200	70–1600			
			220	90-1600			
	16		100	50-800			
			110	50-800			
			200	60-1600			
			220 100	90–1600			
			110	50-800			
	18	-	200	60-800 100-1600			
			220	130-1600			
		-	100	50-800			
	18.95		110	60-800			
	3/4 inch		200	100-1600	1		
	3,		200	100 1000			

Lead Wire Type

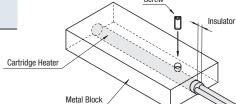
Symbol	Lead Wire Type	Heat Resistance Temperature	Features
G	Silicon Rubber + Tin Plated Annealed Copper Wire	180°C	For chemical and water resistant items
Т	Teflon + Nickel Plated Annealing Copper Wire	260°C	For chemical, water and weather resistant items
*M	Mica Polyimide- Wound Silica + Nickel Coated Copper Wire	400°C	For heat resistant items

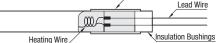


Application Example

Precautions for Use

- ① Do not let heater run exposed in the atmosphere. Operating the heater when heat-generating part is out of heated products, the wire may break or ignite due to abnormal heating.
- O Pay attention to insulation tube as it is easy to fall off.
- Keep the temperature around the lead wire exit at 130°C or less





- 60 - V200 - W80 -

F Lead Wire

Lead Wire Type

220

• Please refer to "Precautions for Use" in the Cartridge Heaters Overview on P.3704.

Part Number

Example

MCHSR is not available between L301-L600 for D6 and D6.25, and between L401-600 for D8 and D9.42.