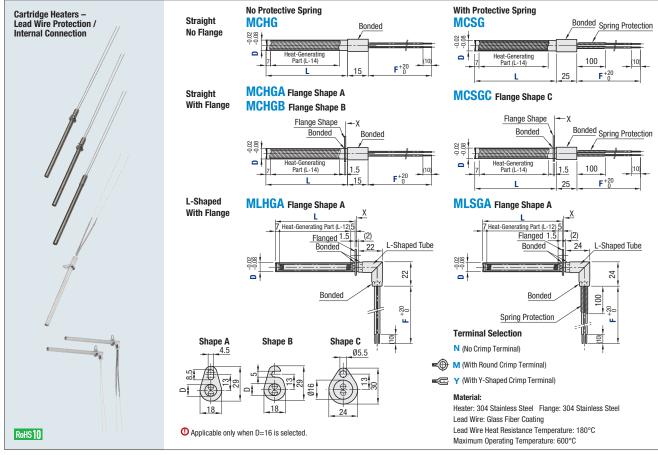
Cartridge Heaters

Lead Wire Protection / Internal Connection





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

200

220

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



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

Part Number

- V200 - W250 -

Precautions for Use

MLHGA With Protective Spring

- 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

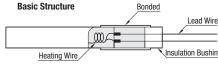
Type of Terminal

50-2000

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

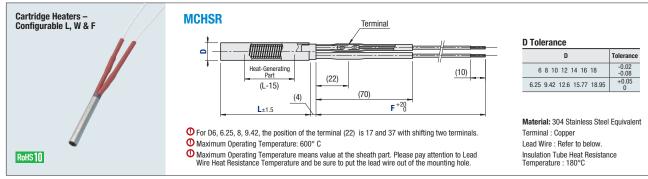
Features

- 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



Co

								9		
onfigu	rable L,	, W & F						Lead \	Wire Type	
Part Number			V (Voltage)	W (Electric	F (Lead V	Vire)	Florida d Boom			Τ
Туре	D	L 5mm Increments	v (voitage)	Power) 10W Increment	Lead Wire Type	10mm Increment	Electrical Power Density (W/cm²)	Symbol	Lead Wire Type	Т
			100	50-500				G	Silicon Rubber + Tin Plated Annealed Copper Wire	
			110	50-500						
	6		200	60-600						
		E0 2E0	220	80-600						
		50–250	100	50-500				Т	Teflon + Nickel Plated Annealing Copper Wire	
	6.25		110	50-500						
	1/4 inch		200	60-600	G Silicon Rubber Wire					
			220	80-600						
			100	50-600				*M	Mica Polyimide- Wound Silica + Nickel Coated Copper Wire	-
			110	50-600						
	8		200	50-1200						
		E0 400	220	70-1200						
		50-400	100	50-600						_
	9.42		110	50-600						
	3/8 inch		200	50-1200						
			220	70-1200						
			100	50-600						
	10		110	50-600						
	10		200	50-1200						
			220	70-1200						
			100	50-800			1 2≤W/cm ² ≤15			
1	12		110	50-800	T Teflon Wire	100–1000	W/Cm²= W/{Dor(L-15)/100} Calculate with the electrical power density of heat-generating part, not with the overall length.			
	12		200	50-1600						
			220	70–1600						
	12.6 1/2 inch	- 50–600	100	50-800						
			110	50-800						
			200	50-1600						
			220	70–1600						
	14		100	50-800						
			110	50-800						
			200	60-1600						
			220	80-1600						
		30-600	100	50-800	*M Silica Wire					
	15.77		110	60-800						
	5/8 inch		200	70–1600						
			220	90-1600						
			100	50-800					Application Example	
	16		110	50-800]			A PORT OF THE PROPERTY OF THE		
				00 1000	1					

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.

Heat Resistance

Temperatur

180°C

260°C

400°C

Features

For chemical

and water resistant items

For chemical.

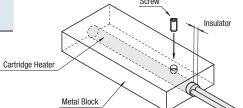
water and

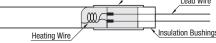
weather

resistant items

For heat

resistant items





F Lead Wire

Lead Wire Type

200

220

100

110

200

220

100

110

200

220

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

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

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Part Number

Example

60-1600

90-1600

50-800

100-1600

130-1600

60-800

100-1600

130-1600

- 60 - V200 - W80 -