

Round Tubular Rail Heaters

The Fastrax™ electric round tubular rail heater is ideal for older switch installations that do not have the relief available for flat profile heaters. It resides within the recess web area of a rail to keep railway switch components free of ice and snow.

The heavy duty stainless steel construction resists corrosion and offers protection and durability in rugged environments. The heater is designed to withstand heavy shock and vibration found in rail traffic, and is suitable for use in extreme weather conditions.

The wire inside of the heating element is made of high grade resistance alloy and provides the source of heat. The resistance wire is surrounded by highly compacted magnesium oxide insulation, which provides excellent electrical and thermal properties.

Thermon Heating Systems Inc. has internal capabilities dedicated to the production of the highest quality tubular heating elements. We use only the best commercially available materials and we use design parameters proven to maximize element life expectancy.

Features

- Electrically isolated sheath
- Fastrax™ patented spring clamp technology allows for expansion and contraction of the heater without binding or losing contact with the rail
- 26' premium grade marine power cable lead is resistant to chemicals and severe weather
- Standard lengths ranging from 12' to 36'
- Available in AC or DC voltages, from 208V to 750V

Benefits

- Easy to install, no drilling required
- Excellent internal electrical insulation and heat conduction
- Compatible with most rail lines
- Capabilities to develop any type of round heater required in the rail industry
- Annealed specifically for easy application around railroad obstructions
- Watt density matches the SwitchBlade® heater output
- Custom lengths and wattages available



Model Coding

FHR	3	24	12	DC
Model Series	Watts/ft	Voltage	Overall Heater Length (ft)	Voltage Type
F – Fastrax™	3 – 300	20 – 208V	12, 16, 22,	AC, DC
Round Tubular Rail Heater	4 – 400	24 – 240V	30, 36	
	5 – 500	48 – 480V		
		60 – 600V		
		75 – 750V		

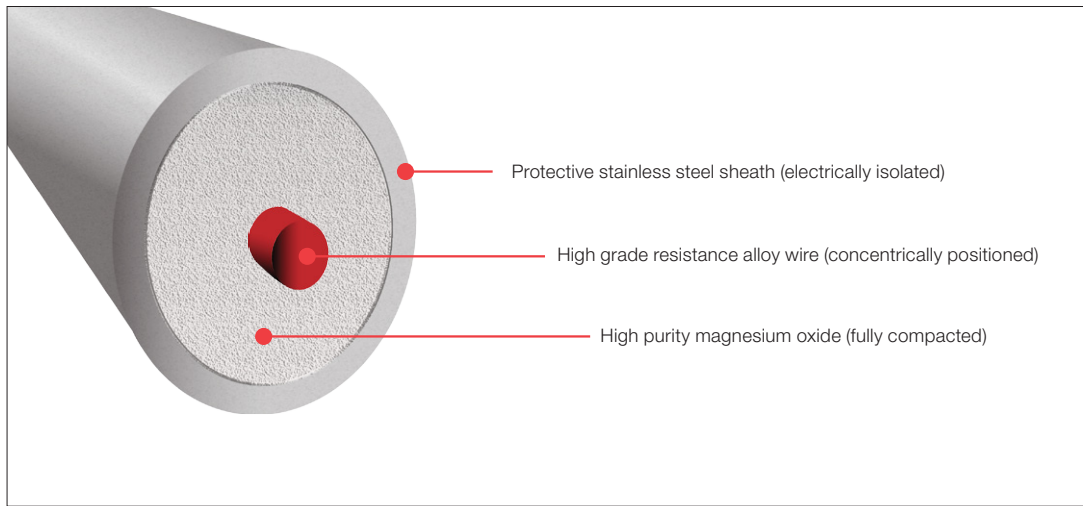


Figure 11 – Round tubular rail heater cross-section

Table 6 – Round Tubular Rail Heater Selection Guide

Overall Length	Heater Length	Voltage	Watts/Ft	Total kW	Part Number
12'	10'-8"	208	300	3.2	FHR32012
16'	14'-8"	208	300	5.0	FHR32016
22'	20'-8"	208	300	6.2	FHR32022
30'	28'-8"	208	300	8.6	FHR32030
36'	34'-8"	208	300	9.6	FHR32036
12'	10'-8"	208	400	4.4	FHR42012
16'	14'-8"	208	400	6.6	FHR42016
22'	20'-8"	208	400	8.2	FHR42022
30'	28'-8"	208	400	12.0	FHR42030
12'	10'-8"	208	500	5.2	FHR52012
16'	14'-8"	208	500	8.2	FHR52016
22'	20'-8"	208	500	10.2	FHR52022
12'	10'-8"	240	300	3.2	FHR32412
16'	14'-8"	240	300	5.0	FHR32416
22'	20'-8"	240	300	6.2	FHR32422
30'	28'-8"	240	300	8.6	FHR32430
12'	10'-8"	240	400	4.4	FHR42412
16'	14'-8"	240	400	6.6	FHR42416
22'	20'-8"	240	400	8.2	FHR42422
30'	28'-8"	240	400	12.0	FHR42430
36'	34'-8"	240	400	14.0	FHR42436
12'	10'-8"	240	500	5.2	FHR52412
16'	14'-8"	240	500	8.2	FHR52416
22'	20'-8"	240	500	10.2	FHR52422
30'	28'-8"	240	500	14.2	FHR52430
36'	34'-8"	240	500	17.2	FHR52436
12'	10'-8"	480	300	3.2	FHR34812
16'	14'-8"	480	300	5.0	FHR34816
22'	20'-8"	480	300	6.2	FHR34822

Overall Length	Heater Length	Voltage	Watts/Ft	Total kW	Part Number
30'	28'-8"	480	300	8.6	FHR34830
36'	34'-8"	480	300	9.6	FHR34836
12'	10'-8"	480	400	4.4	FHR44812
16'	14'-8"	480	400	6.6	FHR44816
22'	20'-8"	480	400	8.2	FHR44822
30'	28'-8"	480	400	12.0	FHR44830
36'	34'-8"	480	400	14.0	FHR44836
12'	10'-8"	480	500	5.2	FHR54812
16'	14'-8"	480	500	8.2	FHR54816
22'	20'-8"	480	500	10.2	FHR54822
30'	28'-8"	480	500	14.2	FHR54830
36'	34'-8"	480	500	17.2	FHR54836
12'	10'-8"	600	300	3.2	FHR36012
16'	14'-8"	600	300	5.0	FHR36016
22'	20'-8"	600	300	6.2	FHR36022
30'	28'-8"	600	300	8.6	FHR36030
36'	34'-8"	600	300	9.6	FHR36036
12'	10'-8"	600	400	4.4	FHR46012
16'	14'-8"	600	400	6.6	FHR46016
22'	20'-8"	600	400	8.2	FHR46022
30'	28'-8"	600	400	12.0	FHR46030
36'	34'-8"	600	400	14.0	FHR46036
12'	10'-8"	600	500	5.2	FHR56012
16'	14'-8"	600	500	8.2	FHR56016
22'	20'-8"	600	500	10.2	FHR56022
30'	28'-8"	600	500	14.2	FHR56030
36'	34'-8"	600	500	17.2	FHR56036

Note: 30' and 36' lengths require a splice.