

Cartridge Heaters

F.O.B.: St. Louis, Missouri

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
1/8	1 1/4	(31.8)	120	25	87	(13)	0.02	(0.009)	Stock	C1E14
	1 1/4	(31.8)	120	50	174	(18)	0.02	(0.009)	Stock	C1E13
	1 1/4	(31.8)	240	35	113	(27)	0.02	(0.009)	Stock	C1E42
	1 1/2	(38.1)	120	30	78	(12)	0.02	(0.009)	Stock	C1J5
	1 1/2	(38.1)	120	60	156	(24)	0.02	(0.009)	Stock	C1J6
	2	(50.8)	120	50	87	(13)	0.02	(0.009)	Stock	C2A4
2	(50.8)	120	100	174	(27)	0.02	(0.009)	Stock	C2A5	
1/4	1	(25.4)	120	80	208	(32)	0.02	(0.009)	Stock	E1A51
	1	(25.4)	120	100	260	(40)	0.02	(0.009)	Stock	E1A52
	1	(25.4)	120	150	390	(60)	0.02	(0.009)	Stock	E1A53
	1	(25.4)	240	100	250	(39)	0.02	(0.009)	Stock	E1A66
	1 1/4	(31.8)	120	75	130	(20)	0.02	(0.009)	Stock	E1E41
	1 1/4	(31.8)	120	100	173	(27)	0.02	(0.009)	Stock	E1E42
	1 1/4	(31.8)	120	150	260	(40)	0.02	(0.009)	Stock	E1E43
	1 1/4	(31.8)	240	225	390	(60)	0.02	(0.009)	Stock	E1E61
	1 1/2	(38.1)	120	50	65	(10)	0.02	(0.009)	Stock	E1J39
	1 1/2	(38.1)	120	100	130	(20)	0.02	(0.009)	Stock	E1J40
	1 1/2	(38.1)	120	150	195	(30)	0.02	(0.009)	Stock	E1J41
	1 1/2	(38.1)	240	175	228	(35)	0.02	(0.009)	Stock	E1J49
	1 1/2	(38.1)	120	200	260	(40)	0.02	(0.009)	Stock	E1J42
	1 1/2	(38.1)	240	200	260	(40)	0.02	(0.009)	Stock	E1J52
	1 1/2	(38.1)	240	250	325	(50)	0.02	(0.009)	Stock	E1J35
	2	(50.8)	120	80	68	(11)	0.03	(0.014)	Stock	E2A136
	2	(50.8)	120	100	87	(13)	0.03	(0.014)	Stock	E2A55
	2	(50.8)	240	125	108	(17)	0.03	(0.014)	Stock	E2A82
	2	(50.8)	120	150	130	(20)	0.03	(0.014)	Stock	E2A56
	2	(50.8)	240	150	130	(20)	0.03	(0.014)	Stock	E2A77
	2	(50.8)	120	200	173	(27)	0.03	(0.014)	Stock	E2A57
	2	(50.8)	240	200	173	(27)	0.03	(0.014)	Stock	E2A50
	2	(50.8)	120	250	217	(33)	0.03	(0.014)	Stock	E2A72
	2	(50.8)	240	250	215	(33)	0.03	(0.014)	Stock	E2A76
	2	(50.8)	240	300	260	(40)	0.03	(0.014)	Stock	E2A83
	2 1/2	(63.5)	120	250	159	(25)	0.03	(0.014)	Stock	E2J80
	2 1/2	(63.5)	240	250	159	(25)	0.03	(0.014)	Stock	E2J49
	3	(76.2)	120	100	52	(8)	0.04	(0.018)	Stock	E3A48
	3	(76.2)	120	200	104	(16)	0.04	(0.018)	Stock	E3A49
	3	(76.2)	240	200	104	(16)	0.04	(0.018)	Stock	E3A60
	3	(76.2)	240	250	128	(20)	0.04	(0.018)	Stock	E3A124
	3	(76.2)	120	300	156	(24)	0.04	(0.018)	Stock	E3A50
3	(76.2)	240	300	156	(24)	0.04	(0.018)	Stock	E3A51	
4	(101.6)	120	100	37	(6)	0.04	(0.018)	Stock	E4A28	
4	(101.6)	120	200	74	(11)	0.04	(0.018)	Stock	E4A29	
4	(101.6)	240	200	74	(11)	0.04	(0.018)	Stock	E4A32	
4	(101.6)	120	300	111	(17)	0.04	(0.018)	Stock	E4A30	
4	(101.6)	240	300	111	(17)	0.04	(0.018)	Stock	E4A6	
4 1/2	(114.3)	120	200	64	(10)	0.05	(0.023)	Stock	E4J30	
5	(127)	240	350	101	(16)	0.05	(0.023)	Stock	E5A45	
5	(127)	120	400	113	(18)	0.05	(0.023)	Stock	E5A57	
5	(127)	240	400	113	(18)	0.05	(0.023)	Stock	E5A34	
6	(152.4)	240	400	94	(14)	0.06	(0.027)	Stock	E6A46	
8	(203.2)	240	800	136	(21)	0.08	(0.036)	Stock	E8A76	

Cartridge Heaters

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Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
3/8	1	(25.4)	120	55	95	(15)	0.03	(0.014)	Stock	G1A71
	1	(25.4)	120	100	172	(26)	0.03	(0.014)	Stock	G1A29 ①
	1	(25.4)	120	150	259	(40)	0.03	(0.014)	Stock	G1A38 ①
	1	(25.4)	240	200	344	(53)	0.03	(0.014)	Stock	G1A83
1/4	1 1/4	(31.8)	120	100	115	(18)	0.03	(0.014)	Stock	G1E91
	1 1/4	(31.8)	120	125	144	(22)	0.03	(0.014)	Stock	G1E74
	1 1/4	(31.8)	120	150	172	(27)	0.03	(0.014)	Stock	G1E92 ①
	1 1/4	(31.8)	240	150	172	(27)	0.03	(0.014)	Stock	G1E93
	1 1/4	(31.8)	120	200	230	(35)	0.03	(0.014)	Stock	G1E94
	1 1/4	(31.8)	240	200	230	(36)	0.03	(0.014)	Stock	G1E95
	1 1/4	(31.8)	120	400	426	(66)	0.03	(0.014)	Stock	G1E99
	1 5/16	(33.3)	120	100	104	(16)	0.03	(0.014)	Stock	G1F13
1 5/16	(33.3)	240	100	104	(16)	0.03	(0.014)	Stock	G1F15	
1 5/16	(33.3)	120	150	160	(25)	0.03	(0.014)	Stock	G1F17	
1 3/8	(34.9)	240	160	151	(23)	0.03	(0.014)	Stock	G1G23	
1 7/16	(36.5)	120	100	94	(15)	0.03	(0.014)	Stock	G1H6	
1/2	1 1/2	(38.1)	120	50	43	(7)	0.04	(0.018)	Stock	G1J25
	1 1/2	(38.1)	120	75	65	(10)	0.04	(0.018)	Stock	G1J70
	1 1/2	(38.1)	120	80	68	(11)	0.04	(0.018)	Stock	G1J66
	1 1/2	(38.1)	120	100	86	(13)	0.04	(0.018)	Stock	G1J59
	1 1/2	(38.1)	240	100	86	(13)	0.04	(0.018)	Stock	G1J110
	1 1/2	(38.1)	240	125	106	(16)	0.04	(0.018)	Stock	G1J182
	1 1/2	(38.1)	120	150	129	(20)	0.04	(0.018)	Stock	G1J31
	1 1/2	(38.1)	240	150	129	(20)	0.04	(0.018)	Stock	G1J39 ①
	1 1/2	(38.1)	120	200	173	(27)	0.04	(0.018)	Stock	G1J85
	1 1/2	(38.1)	240	200	173	(27)	0.04	(0.018)	Stock	G1J73
3/4	1 3/4	(44.5)	120	250	216	(33)	0.04	(0.018)	Stock	G1J86
	1 3/4	(44.5)	240	250	216	(33)	0.04	(0.018)	Stock	G1J54
	1 3/4	(44.5)	120	125	86	(13)	0.05	(0.023)	Stock	G1N45
	1 3/4	(44.5)	120	175	122	(19)	0.05	(0.023)	Stock	G1N46
	1 3/4	(44.5)	120	250	172	(27)	0.05	(0.023)	Stock	G1N43
	1 3/4	(44.5)	240	250	172	(27)	0.05	(0.023)	Stock	G1N32
	1 13/16	(46)	240	150	98	(15)	0.05	(0.023)	Stock	G1P14
	1 13/16	(46)	120	200	129	(20)	0.05	(0.023)	Stock	G1P15
	1 13/16	(46)	240	250	161	(25)	0.05	(0.023)	Stock	G1P11
	1 7/8	(47.6)	120	250	152	(24)	0.05	(0.023)	Stock	G1R14
2	2	(50.8)	120	50	29	(5)	0.06	(0.027)	Stock	G2A53
	2	(50.8)	120	75	42	(7)	0.06	(0.027)	Stock	G2A192
	2	(50.8)	120	100	57	(9)	0.06	(0.027)	Stock	G2A84
	2	(50.8)	240	100	57	(9)	0.06	(0.027)	Stock	G2A76
	2	(50.8)	120	150	86	(13)	0.06	(0.027)	Stock	G2A56 ①
	2	(50.8)	240	150	86	(13)	0.06	(0.027)	Stock	G2A81 ①
	2	(50.8)	120	200	115	(18)	0.06	(0.027)	Stock	G2A127 ①
	2	(50.8)	240	200	115	(18)	0.06	(0.027)	Stock	G2A37 ①
	2	(50.8)	120	250	144	(22)	0.06	(0.027)	Stock	G2A47
	2	(50.8)	240	250	144	(22)	0.06	(0.027)	Stock	G2A73
	2	(50.8)	120	300	172	(27)	0.06	(0.027)	Stock	G2A139
	2	(50.8)	240	300	172	(27)	0.06	(0.027)	Stock	G2A98 ①
	2	(50.8)	120	400	230	(36)	0.06	(0.027)	Stock	G2A153
	2	(50.8)	240	400	230	(36)	0.06	(0.027)	Stock	G2A146
2	(50.8)	120	500	282	(44)	0.06	(0.027)	Stock	G2A95	

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① MI leads available from stock. Add "Z" after Code No. to order. ex: GIJ39Z

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3/8	2 (50.8)	240	500	282	(44)	0.06	(0.027)	Stock	G2A97
	2 1/8 (54)	240	200	106	(16)	0.06	(0.027)	Stock	G2C13
	2 1/4 (57.2)	120	75	37	(6)	0.07	(0.032)	Stock	G2E88
	2 1/4 (57.2)	120	125	62	(10)	0.07	(0.032)	Stock	G2E89
	2 1/4 (57.2)	240	125	62	(10)	0.07	(0.032)	Stock	G2E138
	2 1/4 (57.2)	240	150	73	(11)	0.07	(0.032)	Stock	G2E68
	2 1/4 (57.2)	120	175	86	(13)	0.07	(0.032)	Stock	G2E90
	2 1/4 (57.2)	120	250	123	(19)	0.07	(0.032)	Stock	G2E2
	2 1/4 (57.2)	240	250	123	(19)	0.07	(0.032)	Stock	G2E78
	2 1/4 (57.2)	120	300	148	(23)	0.07	(0.032)	Stock	G2E108
	2 1/4 (57.2)	240	300	148	(23)	0.07	(0.032)	Stock	G2E12
	2 1/4 (57.2)	120	350	173	(27)	0.07	(0.032)	Stock	G2E91
	2 1/4 (57.2)	240	350	173	(27)	0.07	(0.032)	Stock	G2E75
	2 1/2 (63.5)	120	200	87	(13)	0.07	(0.032)	Stock	G2J110
	2 1/2 (63.5)	240	200	87	(13)	0.07	(0.032)	Stock	G2J81
	2 1/2 (63.5)	120	250	108	(17)	0.07	(0.032)	Stock	G2J46
	2 1/2 (63.5)	240	250	108	(17)	0.07	(0.032)	Stock	G2J80
	2 1/2 (63.5)	120	300	130	(20)	0.07	(0.032)	Stock	G2J118
	2 1/2 (63.5)	240	300	130	(20)	0.07	(0.032)	Stock	G2J119
	2 1/2 (63.5)	120	400	174	(27)	0.07	(0.032)	Stock	G2J26
	2 1/2 (63.5)	240	400	174	(27)	0.07	(0.032)	Stock	G2J146
	2 1/2 (63.5)	120	500	216	(33)	0.07	(0.032)	Stock	G2J109
	2 1/2 (63.5)	240	500	216	(33)	0.07	(0.032)	Stock	G2J52
	2 13/16 (71.4)	120	60	22	(3)	0.08	(0.036)	Stock	G2P9
	2 13/16 (71.4)	120	250	92	(14)	0.08	(0.036)	Stock	G2P3
	2 13/16 (71.4)	240	300	110	(17)	0.08	(0.036)	Stock	G2P5
	3 (76.2)	120	100	34	(5)	0.08	(0.036)	Stock	G3A55
	3 (76.2)	240	100	34	(5)	0.08	(0.036)	Stock	G3A137
	3 (76.2)	120	150	52	(8)	0.08	(0.036)	Stock	G3A121
	3 (76.2)	120	200	69	(11)	0.08	(0.036)	Stock	G3A61
	3 (76.2)	240	200	69	(11)	0.08	(0.036)	Stock	G3A39 ①
	3 (76.2)	120	250	86	(13)	0.08	(0.036)	Stock	G3A52
	3 (76.2)	240	250	86	(13)	0.08	(0.036)	Stock	G3A54
	3 (76.2)	120	300	104	(16)	0.08	(0.036)	Stock	G3A73 ①
	3 (76.2)	240	300	104	(16)	0.08	(0.036)	Stock	G3A92
	3 (76.2)	120	400	138	(21)	0.08	(0.036)	Stock	G3A44
	3 (76.2)	240	400	138	(21)	0.08	(0.036)	Stock	G3A65
	3 (76.2)	120	500	173	(27)	0.08	(0.036)	Stock	G3A119 ①
	3 (76.2)	240	500	173	(27)	0.08	(0.036)	Stock	G3A120
	3 (76.2)	240	600	208	(32)	0.08	(0.036)	Stock	G3A133
	3 5/16 (84.2)	120	500	152	(24)	0.08	(0.036)	Stock	G3F24
	3 1/2 (88.9)	120	250	72	(11)	0.09	(0.041)	Stock	G3J77
3 1/2 (88.9)	240	250	72	(11)	0.09	(0.041)	Stock	G3J65	
3 1/2 (88.9)	120	300	87	(13)	0.09	(0.041)	Stock	G3J87	
3 1/2 (88.9)	240	300	87	(13)	0.09	(0.041)	Stock	G3J68	
3 1/2 (88.9)	120	500	144	(22)	0.09	(0.041)	Stock	G3J22	
3 1/2 (88.9)	240	500	144	(22)	0.09	(0.041)	Stock	G3J63	
3 13/16 (96.8)	120	150	38	(6)	0.09	(0.041)	Stock	G3P8	
3 13/16 (96.8)	240	500	128	(20)	0.09	(0.041)	Stock	G3P3	
4 (101.6)	120	125	31	(5)	0.09	(0.041)	Stock	G4A54	
4 (101.6)	240	125	31	(5)	0.09	(0.041)	Stock	G4A163	

Cartridge Heaters

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① MI leads available from stock. Add "Z" after Code No. to order.

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Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
3/8	4	(101.6)	120	150	37	(6)	0.09	(0.041)	Stock	G4A78
	4	(101.6)	120	175	43	(7)	0.09	(0.041)	Stock	G4A191
	4	(101.6)	120	250	62	(10)	0.09	(0.041)	Stock	G4A40
	4	(101.6)	240	250	62	(10)	0.09	(0.041)	Stock	G4A87
	4	(101.6)	120	300	74	(11)	0.09	(0.041)	Stock	G4A94
	4	(101.6)	240	300	74	(11)	0.09	(0.041)	Stock	G4A95
	4	(101.6)	120	400	99	(15)	0.09	(0.041)	Stock	G4A48
	4	(101.6)	240	400	99	(15)	0.09	(0.041)	Stock	G4A44
	4	(101.6)	240	450	109	(17)	0.09	(0.041)	Stock	G4A64
	4	(101.6)	120	500	123	(19)	0.09	(0.041)	Stock	G4A96
	4	(101.6)	240	500	123	(19)	0.09	(0.041)	Stock	G4A92 ①
	4	(101.6)	120	550	134	(21)	0.09	(0.041)	Stock	G4A200
	4 1/4	(108)	240	300	67	(10)	0.09	(0.041)	Stock	G4E25
	4 1/4	(108)	240	750	167	(26)	0.09	(0.041)	Stock	G4E15
	4 1/2	(114.3)	120	300	65	(10)	0.10	(0.045)	Stock	G4J54
	4 1/2	(114.3)	240	300	65	(10)	0.10	(0.045)	Stock	G4J33
	4 1/2	(114.3)	120	500	108	(17)	0.10	(0.045)	Stock	G4J55
	4 1/2	(114.3)	240	500	108	(17)	0.10	(0.045)	Stock	G4J37
	4 13/16	(122.2)	240	300	59	(9)	0.11	(0.050)	Stock	G4P11
	4 13/16	(122.2)	240	500	98	(15)	0.11	(0.050)	Stock	G4P3
5	5	(127)	120	150	29	(4)	0.11	(0.050)	Stock	G5A68
	5	(127)	240	150	29	(4)	0.11	(0.050)	Stock	G5A56
	5	(127)	120	300	58	(9)	0.11	(0.050)	Stock	G5A69
	5	(127)	240	300	58	(9)	0.11	(0.050)	Stock	G5A70 ①
	5	(127)	120	500	96	(15)	0.11	(0.050)	Stock	G5A38
	5	(127)	240	500	96	(15)	0.11	(0.050)	Stock	G5A71 ①
	5	(127)	240	750	144	(22)	0.11	(0.050)	Stock	G5A67
	5	(127)	240	1000	192	(30)	0.11	(0.050)	Stock	G5A115
	5 1/4	(133.4)	240	200	45	(7)	0.12	(0.054)	Stock	G5E16
	5 1/2	(139.7)	240	600	104	(16)	0.12	(0.054)	Stock	G5J36
	5 1/2	(139.7)	240	1000	173	(27)	0.12	(0.054)	Stock	G5J45
	6	6	(152.4)	120	200	31	(5)	0.13	(0.059)	Stock
6		(152.4)	120	250	39	(6)	0.13	(0.059)	Stock	G6A40 ①
6		(152.4)	240	250	39	(6)	0.13	(0.059)	Stock	G6A92
6		(152.4)	120	400	63	(10)	0.13	(0.059)	Stock	G6A81
6		(152.4)	240	400	63	(10)	0.13	(0.059)	Stock	G6A82
6		(152.4)	120	500	79	(12)	0.13	(0.059)	Stock	G6A125
6		(152.4)	240	500	79	(12)	0.13	(0.059)	Stock	G6A59
6		(152.4)	120	600	94	(15)	0.13	(0.059)	Stock	G6A56
6		(152.4)	240	600	94	(15)	0.13	(0.059)	Stock	G6A51
6		(152.4)	240	750	117	(18)	0.13	(0.059)	Stock	G6A46
6	(152.4)	240	1000	157	(24)	0.13	(0.059)	Stock	G6A83	
6 1/2	6 1/2	(165.1)	240	600	86	(13)	0.14	(0.064)	Stock	G6J23
	6 1/2	(165.1)	240	1000	144	(22)	0.14	(0.064)	Stock	G6J33
7	7	(177.8)	120	250	33	(5)	0.14	(0.064)	Stock	G7A40
	7	(177.8)	240	250	33	(5)	0.14	(0.064)	Stock	G7A32
	7	(177.8)	240	500	65	(10)	0.14	(0.064)	Stock	G7A30
	7	(177.8)	120	600	80	(12)	0.14	(0.064)	Stock	G7A41
	7	(177.8)	240	600	80	(12)	0.14	(0.064)	Stock	G7A42 ①
	7	(177.8)	240	1000	133	(21)	0.14	(0.064)	Stock	G7A43 ①
	7 1/2	(190.5)	240	600	74	(11)	0.15	(0.068)	Stock	G7J27 ①

CONTINUED 

① MI leads available from stock. Add "Z" after Code No. to order.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length inches (mm)	Volts	Watts	Watt Density W/in ² (W/cm ²)		Approx. Net Wt. lbs (kg)		Availability	Code No.	
3/8	7 1/2 (190.5)	240	1000	124	(19)	0.15	(0.068)	Stock	G7J28	
	7 13/16 (198.5)	240	750	87	(13)	0.15	(0.068)	Stock	G7P5	
	8 (203.2)	120	300	34	(5)	0.16	(0.073)	Stock	G8A54	
	8 (203.2)	240	300	34	(5)	0.16	(0.073)	Stock	G8A47	
	8 (203.2)	120	400	45	(7)	0.16	(0.073)	Stock	G8A109	
	8 (203.2)	120	500	58	(9)	0.16	(0.073)	Stock	G8A81	
	8 (203.2)	240	500	58	(9)	0.16	(0.073)	Stock	G8A32	
	8 (203.2)	120	600	69	(11)	0.16	(0.073)	Stock	G8A53	
	8 (203.2)	240	600	69	(11)	0.16	(0.073)	Stock	G8A37	
	8 (203.2)	240	700	79	(12)	0.16	(0.073)	Stock	G8A98	
	8 (203.2)	240	1000	115	(18)	0.16	(0.073)	Stock	G8A45 ①	
	8 5/8 (219)	240	500	52	(8)	0.17	(0.077)	Stock	G8L3	
	9 (228.6)	240	1000	100	(16)	0.18	(0.082)	Stock	G9A37	
	9 1/2 (241.3)	240	600	57	(9)	0.19	(0.086)	Stock	G9J20	
	9 1/2 (241.3)	240	1000	96	(15)	0.19	(0.086)	Stock	G9J12	
	10 (254)	120	400	36	(6)	0.19	(0.086)	Stock	G10A48	
	10 (254)	120	600	54	(8)	0.19	(0.086)	Stock	G10A35	
	10 (254)	240	600	54	(8)	0.19	(0.086)	Stock	G10A31 ①	
	10 (254)	240	1000	91	(14)	0.19	(0.086)	Stock	G10A32	
	10 13/16 (274.7)	240	375	31	(5)	0.20	(0.091)	Stock	G10P5	
	12 (304.8)	120	400	30	(5)	0.22	(0.100)	Stock	G12A45	
	12 (304.8)	120	600	45	(7)	0.22	(0.100)	Stock	G12A29	
	12 (304.8)	240	600	45	(7)	0.22	(0.100)	Stock	G12A46	
	12 (304.8)	240	1000	75	(12)	0.22	(0.100)	Stock	G12A47 ①	
	12 13/16 (325.5)	240	1000	69	(11)	0.23	(0.104)	Stock	G12P3	
	1/2	1 (25.4)	120	50	65	(10)	0.06	(0.027)	Stock	J1A30
		1 (25.4)	120	150	193	(30)	0.06	(0.027)	Stock	J1A31
		1 1/4 (31.8)	120	50	43	(7)	0.07	(0.032)	Stock	J1E50
1 1/4 (31.8)		120	125	107	(17)	0.07	(0.032)	Stock	J1E51	
1 1/4 (31.8)		240	125	107	(17)	0.07	(0.032)	Stock	J1E58	
1 1/4 (31.8)		240	200	172	(27)	0.07	(0.032)	Stock	J1E52	
1 1/4 (31.8)		240	250	212	(33)	0.07	(0.032)	Stock	J1E88	
1 1/2 (38.1)		120	50	32	(3)	0.08	(0.036)	Stock	J1J47	
1 1/2 (38.1)		120	150	97	(15)	0.08	(0.036)	Stock	J1J48	
1 1/2 (38.1)		240	150	97	(15)	0.08	(0.036)	Stock	J1J96	
1 1/2 (38.1)		120	200	128	(20)	0.08	(0.036)	Stock	J1J59	
1 1/2 (38.1)		240	200	128	(20)	0.08	(0.036)	Stock	J1J38	
2 (50.8)		120	75	32	(5)	0.09	(0.041)	Stock	J2A80	
2 (50.8)		120	200	86	(13)	0.09	(0.041)	Stock	J2A49	
2 (50.8)		240	200	86	(13)	0.09	(0.041)	Stock	J2A75	
2 (50.8)		120	250	108	(17)	0.09	(0.041)	Stock	J2A85	
2 (50.8)		240	250	108	(17)	0.09	(0.041)	Stock	J2A71 ①	
2 (50.8)		120	300	128	(20)	0.09	(0.041)	Stock	J2A95	
2 (50.8)		240	300	128	(20)	0.09	(0.041)	Stock	J2A96	
2 (50.8)		120	400	171	(27)	0.09	(0.041)	Stock	J2A81	
2 (50.8)		240	400	171	(27)	0.09	(0.041)	Stock	J2A82	
2 1/4 (57.2)		120	75	28	(4)	0.10	(0.045)	Stock	J2E86	
2 1/4 (57.2)		120	125	46	(7)	0.10	(0.045)	Stock	J2E87	
2 1/4 (57.2)		120	250	92	(14)	0.10	(0.045)	Stock	J2E56	
2 1/4 (57.2)		240	250	92	(14)	0.10	(0.045)	Stock	J2E69	
2 1/4 (57.2)		120	400	147	(22)	0.10	(0.045)	Stock	J2E114	

Cartridge Heaters

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① MI leads available from stock. Add "Z" after Code No. to order.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
½	2 ¼	(57.2)	240	400	147	(22)	0.10	(0.045)	Stock	J2E115
	2 ¼	(57.2)	120	500	184	(29)	0.10	(0.045)	Stock	J2E64
	2 ¼	(57.2)	240	500	184	(29)	0.10	(0.045)	Stock	J2E88
	2 ⅜	(60.3)	120	100	34	(5)	0.10	(0.045)	Stock	J2G35
	2 ⅜	(60.3)	240	100	34	(5)	0.10	(0.045)	Stock	J2G28
	2 ⅜	(60.3)	120	250	86	(13)	0.10	(0.045)	Stock	J2G34
	2 ⅜	(60.3)	240	250	86	(13)	0.10	(0.045)	Stock	J2G37
	2 ⅜	(60.3)	120	500	172	(27)	0.10	(0.045)	Stock	J2G36
	2 ⅜	(60.3)	240	500	172	(27)	0.10	(0.045)	Stock	J2G38
	2 ½	(63.5)	120	100	32	(5)	0.11	(0.050)	Stock	J2J67
	2 ½	(63.5)	240	100	32	(5)	0.11	(0.050)	Stock	J2J57
	2 ½	(63.5)	120	250	81	(13)	0.11	(0.050)	Stock	J2J68
	2 ½	(63.5)	240	250	81	(13)	0.11	(0.050)	Stock	J2J69
	2 ½	(63.5)	120	300	96	(15)	0.11	(0.050)	Stock	J2J109
	2 ½	(63.5)	240	300	96	(15)	0.11	(0.050)	Stock	J2J110
	2 ½	(63.5)	120	400	128	(20)	0.11	(0.050)	Stock	J2J81
	2 ½	(63.5)	240	400	128	(20)	0.11	(0.050)	Stock	J2J82
	2 ½	(63.5)	120	500	161	(24)	0.11	(0.050)	Stock	J2J66
	2 ½	(63.5)	240	500	161	(24)	0.11	(0.050)	Stock	J2J70
	2 ⅝	(65.1)	120	350	108	(17)	0.11	(0.050)	Stock	J2K6
2 ⅝	(65.1)	240	300	93	(14)	0.11	(0.050)	Stock	J2K3	
2 ¾	(69.9)	240	400	115	(18)	0.11	(0.050)	Stock	J2N43	
2 ¾	(69.9)	120	400	115	(18)	0.11	(0.050)	Stock	J2N45	
3	(76.2)	120	125	32	(5)	0.12	(0.054)	Stock	J3A108	
3	(76.2)	240	125	32	(5)	0.12	(0.054)	Stock	J3A109	
3	(76.2)	120	250	64	(10)	0.12	(0.054)	Stock	J3A107	
3	(76.2)	240	250	64	(10)	0.12	(0.054)	Stock	J3A89	
3	(76.2)	120	300	78	(12)	0.12	(0.054)	Stock	J3A65	
3	(76.2)	120	350	89	(14)	0.12	(0.054)	Stock	J3A173	
3	(76.2)	240	300	78	(12)	0.12	(0.054)	Stock	J3A73	
3	(76.2)	120	400	104	(16)	0.12	(0.054)	Stock	J3A132	
3	(76.2)	240	400	104	(16)	0.12	(0.054)	Stock	J3A29	
3	(76.2)	120	500	129	(20)	0.12	(0.054)	Stock	J3A110	
3	(76.2)	240	500	129	(20)	0.12	(0.054)	Stock	J3A111	
3	(76.2)	120	600	154	(24)	0.12	(0.054)	Stock	J3A51	
3	(76.2)	240	600	154	(24)	0.12	(0.054)	Stock	J3A127	
3	(76.2)	120	750	193	(30)	0.12	(0.054)	Stock	J3A137	
3	(76.2)	240	750	193	(30)	0.12	(0.054)	Stock	J3A112	
3	(76.2)	120	1000	254	(39)	0.12	(0.054)	Stock	J3A79	
3 ½	(88.9)	120	250	54	(8)	0.14	(0.064)	Stock	J3J44	
3 ½	(88.9)	240	250	54	(8)	0.14	(0.064)	Stock	J3J64	
3 ½	(88.9)	240	350	75	(12)	0.14	(0.064)	Stock	J3J65	
3 ½	(88.9)	120	500	107	(17)	0.14	(0.064)	Stock	J3J45	
3 ½	(88.9)	240	500	107	(17)	0.14	(0.064)	Stock	J3J46	
3 ½	(88.9)	240	750	162	(25)	0.14	(0.064)	Stock	J3J63	
3 ⅜	(96.8)	120	500	96	(15)	0.15	(0.068)	Stock	J3P9	
3 ⅜	(96.8)	240	250	48	(7)	0.15	(0.068)	Stock	J3P2	
4	(101.6)	120	150	28	(4)	0.15	(0.068)	Stock	J4A117	
4	(101.6)	240	150	28	(4)	0.15	(0.068)	Stock	J4A122	
4	(101.6)	120	250	46	(7)	0.15	(0.068)	Stock	J4A118	
4	(101.6)	240	250	46	(7)	0.15	(0.068)	Stock	J4A90 ①	

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Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
½	4	(101.6)	120	300	56	(9)	0.15	(0.068)	Stock	J4A63
	4	(101.6)	240	300	56	(9)	0.15	(0.068)	Stock	J4A26
	4	(101.6)	120	350	65	(10)	0.15	(0.068)	Stock	J4A1
	4	(101.6)	240	350	65	(10)	0.15	(0.068)	Stock	J4A103
	4	(101.6)	120	400	74	(11)	0.15	(0.068)	Stock	J4A139
	4	(101.6)	240	400	74	(11)	0.15	(0.068)	Stock	J4A68
	4	(101.6)	120	500	92	(14)	0.15	(0.068)	Stock	J4A16
	4	(101.6)	120	550	100	(16)	0.15	(0.068)	Stock	J4A242
	4	(101.6)	240	500	92	(14)	0.15	(0.068)	Stock	J4A92
	4	(101.6)	120	750	138	(21)	0.15	(0.068)	Stock	J4A198
	4	(101.6)	240	750	138	(21)	0.15	(0.068)	Stock	J4A119
	4	(101.6)	240	1000	184	(28)	0.15	(0.068)	Stock	J4A73
	4 ½	(114.3)	120	500	80	(12)	0.17	(0.077)	Stock	J4J69
	4 ½	(114.3)	240	500	80	(12)	0.17	(0.077)	Stock	J4J57
	4 ½	(114.3)	120	750	120	(19)	0.17	(0.077)	Stock	J4J70
	4 ½	(114.3)	240	750	120	(19)	0.17	(0.077)	Stock	J4J32
	4 13/16	(122.2)	240	300	44	(7)	0.19	(0.086)	Stock	J4P3
	4 13/16	(122.2)	240	1000	148	(23)	0.19	(0.086)	Stock	J4P6
	5	(127)	120	200	29	(4)	0.19	(0.086)	Stock	J5A85
	5	(127)	240	200	29	(4)	0.19	(0.086)	Stock	J5A74
	5	(127)	120	350	50	(8)	0.19	(0.086)	Stock	J5A86
	5	(127)	240	350	50	(8)	0.19	(0.086)	Stock	J5A63
	5	(127)	120	400	58	(9)	0.19	(0.086)	Stock	J5A98
	5	(127)	240	400	58	(9)	0.19	(0.086)	Stock	J5A46
	5	(127)	120	500	72	(11)	0.19	(0.086)	Stock	J5A52
	5	(127)	240	500	72	(11)	0.19	(0.086)	Stock	J5A45 ①
	5	(127)	120	750	108	(17)	0.19	(0.086)	Stock	J5A121
	5	(127)	240	750	108	(17)	0.19	(0.086)	Stock	J5A72
	5	(127)	240	1000	143	(22)	0.19	(0.086)	Stock	J5A87
	5 ½	(139.7)	240	200	25	(4)	0.20	(0.091)	Stock	J5J3
	5 ½	(139.7)	120	500	64	(10)	0.20	(0.091)	Stock	J5J43
	5 ½	(139.7)	240	500	64	(10)	0.20	(0.091)	Stock	J5J33
	5 ½	(139.7)	240	650	83	(13)	0.20	(0.091)	Stock	J5J69
	5 ½	(139.7)	120	750	97	(15)	0.20	(0.091)	Stock	J5J44
	5 ½	(139.7)	240	750	97	(15)	0.20	(0.091)	Stock	J5J45
	5 ¾	(146)	120	700	86	(13)	0.20	(0.091)	Stock	J5N6
	5 ¾	(146)	240	700	86	(13)	0.20	(0.091)	Stock	J5N8
	5 13/16	(147.6)	240	300	36	(6)	0.21	(0.095)	Stock	J5P10
	6	(152.4)	120	250	29	(4)	0.21	(0.095)	Stock	J6A114
	6	(152.4)	240	250	29	(4)	0.21	(0.095)	Stock	J6A171
	6	(152.4)	240	300	35	(6)	0.21	(0.095)	Stock	J6A66
	6	(152.4)	240	350	41	(7)	0.21	(0.095)	Stock	J6A119
6	(152.4)	120	500	59	(9)	0.21	(0.095)	Stock	J6A115	
6	(152.4)	240	500	59	(9)	0.21	(0.095)	Stock	J6A94 ①	
6	(152.4)	480	500	59	(9)	0.21	(0.095)	Stock	J6A301 ②	
6	(152.4)	120	750	88	(14)	0.21	(0.095)	Stock	J6A99	
6	(152.4)	240	750	88	(14)	0.21	(0.095)	Stock	J6A90	
6	(152.4)	120	1000	117	(18)	0.21	(0.095)	Stock	J6A53	
6	(152.4)	240	1000	117	(18)	0.21	(0.095)	Stock	J6A36 ①	
6 ½	(165.1)	240	500	54	(8)	0.23	(0.104)	Stock	J6J45	
6 ½	(165.1)	240	1000	108	(17)	0.23	(0.104)	Stock	J6J27 ①	

Cartridge Heaters

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① MI leads available from stock. Add "Z" after Code No. to order.
 ② Units with 480 volts cannot be supplied with LA lead terminations.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
½	7	(177.8)	120	250	25	(4)	0.24	(0.109)	Stock	J7A79
	7	(177.8)	120	500	50	(8)	0.24	(0.109)	Stock	J7A80
	7	(177.8)	240	500	50	(8)	0.24	(0.109)	Stock	J7A57
	7	(177.8)	120	600	60	(9)	0.24	(0.109)	Stock	J7A50
	7	(177.8)	240	600	60	(9)	0.24	(0.109)	Stock	J7A95
	7	(177.8)	240	1000	99	(15)	0.24	(0.109)	Stock	J7A81
	7 ½	(190.5)	240	500	46	(7)	0.26	(0.118)	Stock	J7J25
	7 ½	(190.5)	240	1000	92	(14)	0.26	(0.118)	Stock	J7J26
	8	(203.2)	120	300	26	(4)	0.28	(0.127)	Stock	J8A71
	8	(203.2)	240	300	26	(4)	0.28	(0.127)	Stock	J8A111
	8	(203.2)	120	500	43	(7)	0.28	(0.127)	Stock	J8A64
	8	(203.2)	240	500	43	(7)	0.28	(0.127)	Stock	J8A66
	8	(203.2)	120	1000	86	(13)	0.28	(0.127)	Stock	J8A84
	8	(203.2)	240	1000	86	(13)	0.28	(0.127)	Stock	J8A60
	8	(203.2)	480	1000	86	(13)	0.28	(0.127)	Stock	J8A35 ②
	8	(203.2)	240	1500	129	(20)	0.28	(0.127)	Stock	J8A100
	8	(203.2)	240	2000	172	(27)	0.28	(0.127)	Stock	J8A101 ①
	8 ½	(215.9)	240	300	24	(4)	0.29	(0.132)	Stock	J8J39
	8 ½	(215.9)	240	500	40	(6)	0.29	(0.132)	Stock	J8J30
	8 ½	(215.9)	240	1000	80	(12)	0.29	(0.132)	Stock	J8J28
	9	(228.6)	240	500	38	(6)	0.30	(0.136)	Stock	J9A35
	9	(228.6)	240	1000	76	(12)	0.30	(0.136)	Stock	J9A58
	9 ½	(241.3)	240	500	36	(6)	0.32	(0.145)	Stock	J9J14
	9 ½	(241.3)	240	1000	72	(11)	0.32	(0.145)	Stock	J9J12 ①
	10	(254)	120	500	34	(5)	0.33	(0.150)	Stock	J10A61
	10	(254)	240	500	34	(5)	0.33	(0.150)	Stock	J10A62
	10	(254)	120	1000	68	(11)	0.33	(0.150)	Stock	J10A63
	10	(254)	240	1000	68	(11)	0.33	(0.150)	Stock	J10A42
	10	(254)	240	1500	102	(16)	0.33	(0.150)	Stock	J10A33
	10	(254)	240	2000	136	(21)	0.33	(0.150)	Stock	J10A64 ①
	11	(279.4)	240	1000	61	(9)	0.36	(0.163)	Stock	J11A60
	12	(304.8)	120	500	28	(4)	0.40	(0.181)	Stock	J12A63
	12	(304.8)	240	500	28	(4)	0.40	(0.181)	Stock	J12A76
	12	(304.8)	120	1000	56	(9)	0.40	(0.181)	Stock	J12A40
	12	(304.8)	240	1000	56	(9)	0.40	(0.181)	Stock	J12A49
	12	(304.8)	480	1200	66	(10)	0.40	(0.181)	Stock	J12A215 ②
12	(304.8)	240	1500	84	(13)	0.40	(0.181)	Stock	J12A37	
12	(304.8)	240	2000	112	(17)	0.40	(0.181)	Stock	J12A89	
14	(355.6)	240	1000	48	(7)	0.48	(0.218)	Stock	J14A41	
14	(355.6)	240	2300	110	(17)	0.48	(0.218)	Stock	J14A39	
15	(381)	240	1500	66	(10)	0.50	(0.227)	Stock	J15A19	
16	(406.4)	240	1000	41	(7)	0.52	(0.236)	Stock	J16A12	
18	(457.2)	240	1500	55	(9)	0.57	(0.259)	Stock	J18A19	
18	(457.2)	240	1700	62	(9)	0.57	(0.259)	Stock	J18A23	
¾	1 ¼	(31.8)	120	50	34	(5)	0.10	(0.045)	Stock	L1E26
	1 ¼	(31.8)	120	200	137	(21)	0.10	(0.045)	Stock	L1E24
	1 ¼	(31.8)	120	250	171	(27)	0.10	(0.045)	Stock	L1E27
	1 ½	(38.1)	120	250	128	(20)	0.11	(0.050)	Stock	L1J23
	1 ½	(38.1)	240	250	128	(20)	0.11	(0.050)	Stock	L1J24
	2	(50.8)	120	100	34	(5)	0.13	(0.059)	Stock	L2A48

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① MI leads available from stock. Add "Z" after Code No. to order.

② Units with 480 volts cannot be supplied with LA lead terminations.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
5/8	2	(50.8)	120	200	68	(11)	0.13	(0.059)	Stock	L2A49
	2	(50.8)	240	500	170	(26)	0.13	(0.059)	Stock	L2A54
2 1/4	2 1/4	(57.2)	120	100	29	(4)	0.14	(0.064)	Stock	L2E49
	2 1/4	(57.2)	120	250	73	(11)	0.14	(0.064)	Stock	L2E50
2 1/4	2 1/4	(57.2)	240	250	73	(11)	0.14	(0.064)	Stock	L2E12
	2 1/4	(57.2)	120	350	103	(16)	0.14	(0.064)	Stock	L2E40
2 1/4	2 1/4	(57.2)	240	350	103	(16)	0.14	(0.064)	Stock	L2E51
	2 3/8	(60.3)	120	280	77	(12)	0.16	(0.073)	Stock	L2G18
2 3/8	2 3/8	(60.3)	240	280	77	(12)	0.16	(0.073)	Stock	L2G19
	3	(76.2)	120	150	31	(5)	0.20	(0.091)	Stock	L3A81
3	3	(76.2)	120	250	51	(8)	0.20	(0.091)	Stock	L3A82
	3	(76.2)	240	250	51	(8)	0.20	(0.091)	Stock	L3A9
3	3	(76.2)	120	400	81	(13)	0.20	(0.091)	Stock	L3A94
	3	(76.2)	120	500	102	(16)	0.20	(0.091)	Stock	L3A113
3	3	(76.2)	240	500	103	(16)	0.20	(0.091)	Stock	L3A33
	3	(76.2)	240	750	154	(24)	0.20	(0.091)	Stock	L3A71
3 3/4	3 3/4	(95.3)	120	525	82	(13)	0.24	(0.109)	Stock	L3N12
	3 3/4	(95.3)	240	525	82	(13)	0.24	(0.109)	Stock	L3N1
4	4	(101.6)	120	250	37	(6)	0.26	(0.118)	Stock	L4A99
	4	(101.6)	240	250	37	(6)	0.26	(0.118)	Stock	L4A104
4	4	(101.6)	240	400	58	(9)	0.26	(0.118)	Stock	L4A47
	4	(101.6)	240	500	73	(11)	0.26	(0.118)	Stock	L4A53
4	4	(101.6)	240	600	88	(14)	0.26	(0.118)	Stock	L4A44
	4	(101.6)	240	750	110	(17)	0.26	(0.118)	Stock	L4A100
4	4	(101.6)	240	1000	146	(23)	0.26	(0.118)	Stock	L4A71
	5	(127)	120	250	28	(4)	0.29	(0.132)	Stock	L5A76
5	5	(127)	240	250	28	(4)	0.29	(0.132)	Stock	L5A107
	5	(127)	240	500	57	(9)	0.29	(0.132)	Stock	L5A24
5	5	(127)	240	750	86	(13)	0.29	(0.132)	Stock	L5A31
	5	(127)	240	1000	114	(18)	0.29	(0.132)	Stock	L5A77
5 3/8	5 3/8	(85.7)	120	800	84	(13)	0.30	(0.136)	Stock	L5G3
	5 3/8	(85.7)	240	800	84	(13)	0.30	(0.136)	Stock	L5G1
6	6	(152.4)	120	300	28	(4)	0.34	(0.154)	Stock	L6A28
	6	(152.4)	240	300	28	(4)	0.34	(0.154)	Stock	L6A64
6	6	(152.4)	240	500	47	(7)	0.34	(0.154)	Stock	L6A73 ①
	6	(152.4)	240	750	70	(11)	0.34	(0.154)	Stock	L6A70
6	6	(152.4)	240	1000	93	(14)	0.34	(0.154)	Stock	L6A71 ①
	6	(152.4)	120	1500	139	(22)	0.34	(0.154)	Stock	L6A163
6	6	(152.4)	240	1500	140	(22)	0.34	(0.154)	Stock	L6A94 ①
	6 1/2	(165.1)	120	500	43	(7)	0.38	(0.172)	Stock	L6J43
6 1/2	6 1/2	(165.1)	240	500	43	(7)	0.38	(0.172)	Stock	L6J55
	7	(177.8)	120	500	39	(6)	0.40	(0.181)	Stock	L7A42
7	7	(177.8)	240	500	39	(6)	0.40	(0.181)	Stock	L7A15 ①
	7	(177.8)	240	1000	79	(12)	0.40	(0.181)	Stock	L7A37 ①
7	7	(177.8)	240	1500	118	(18)	0.40	(0.181)	Stock	L7A12 ①
	8	(203.2)	120	500	34	(5)	0.47	(0.213)	Stock	L8A96 ①
8	8	(203.2)	240	500	34	(5)	0.47	(0.213)	Stock	L8A46 ①
	8	(203.2)	240	850	58	(9)	0.47	(0.213)	Stock	L8A115 ①
8	8	(203.2)	240	1000	68	(10)	0.47	(0.213)	Stock	L8A10 ①
	8	(203.2)	240	1500	102	(16)	0.47	(0.213)	Stock	L8A37 ①
8	8	(203.2)	240	2000	137	(21)	0.47	(0.213)	Stock	L8A80 ①

Cartridge Heaters

CONTINUED

① MI leads available from stock. Add "Z" after Code No. to order.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.	
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)			
5/8	10	(254)	120	500	27	(4)	0.53	(0.240)	Stock	L10A51	
	10	(254)	240	500	27	(4)	0.53	(0.240)	Stock	L10A40 ①	
	10	(254)	240	750	40	(6)	0.53	(0.240)	Stock	L10A69	
	10	(254)	240	1000	54	(8)	0.53	(0.240)	Stock	L10A52 ①	
	10	(254)	480	1000	54	(8)	0.53	(0.240)	Stock	L10A193 ②	
	10	(254)	240	1500	81	(13)	0.53	(0.240)	Stock	L10A8 ①	
	10	(254)	240	2000	108	(17)	0.53	(0.240)	Stock	L10A50 ①	
	12	(304.8)	120	500	22	(3)	0.66	(0.300)	Stock	L12A81 ①	
	12	(304.8)	240	500	22	(3)	0.66	(0.300)	Stock	L12A80 ①	
	12	(304.8)	240	900	40	(6)	0.66	(0.300)	Stock	L12A102	
	12	(304.8)	120	1000	45	(7)	0.66	(0.300)	Stock	L12A82 ①	
	12	(304.8)	240	1000	45	(7)	0.66	(0.300)	Stock	L12A34 ①	
	12	(304.8)	120	1500	66	(10)	0.66	(0.300)	Stock	L12A147	
	12	(304.8)	240	1500	67	(10)	0.66	(0.300)	Stock	L12A39 ①	
	12	(304.8)	240	2000	89	(14)	0.66	(0.300)	Stock	L12A63 ①	
	14	(355.6)	240	3700	140	(22)	0.79	(0.358)	Stock	L14A21	
	15	(381)	240	750	27	(4)	0.84	(0.381)	Stock	L15A35 ①	
	15	(381)	240	2400	84	(13)	0.84	(0.381)	Stock	L15A20	
	15	(381)	480	2500	88	(14)	0.84	(0.381)	Stock	L15A88 ②	
	15	(381)	240	4000	141	(22)	0.84	(0.381)	Stock	L15A41	
	16	(406.4)	240	2500	82	(13)	0.91	(0.412)	Stock	L16A33	
	16	(406.4)	240	4500	148	(23)	0.91	(0.412)	Stock	L16A40	
	18	(457.2)	240	1500	44	(7)	1.03	(0.467)	Stock	L18A32	
	18	(457.2)	240	3000	87	(13)	1.03	(0.467)	Stock	L18A34	
	18	(457.2)	240	4700	137	(21)	1.03	(0.467)	Stock	L18A36	
	20	(508)	240	1500	40	(6)	1.25	(0.567)	Stock	L20A19 ①	
	20	(508)	240	3500	92	(14)	1.25	(0.567)	Stock	L20A13	
	20	(508)	480	3500	92	(14)	1.25	(0.567)	Stock	L20A96 ②	
	20	(508)	240	4700	123	(19)	1.25	(0.567)	Stock	L20A14	
	24	(609.6)	240	2000	44	(7)	1.47	(0.667)	Stock	L24A19 ①	
	24	(609.6)	240	4700	102	(15)	1.47	(0.667)	Stock	L24A14	
	36	(914.4)	240	3000	43	(7)	2.30	(1.04)	Stock	L36A8	
	¾	2 ¼	(57.2)	120	200	49	(8)	0.19	(0.086)	Stock	N2E8
		3	(76.2)	120	250	43	(7)	0.24	(0.109)	Stock	N3A11
		3	(76.2)	240	500	85	(13)	0.24	(0.109)	Stock	N3A12 ①
		4	(101.6)	120	250	31	(5)	0.31	(0.141)	Stock	N4A16 ①
4		(101.6)	240	500	61	(9)	0.31	(0.141)	Stock	N4A17 ①	
4		(101.6)	240	1000	122	(19)	0.31	(0.141)	Stock	N4A15	
5		(127)	120	300	28	(4)	0.38	(0.172)	Stock	N5A19	
5		(127)	240	500	47	(7)	0.38	(0.172)	Stock	N5A12 ①	
5		(127)	240	1000	95	(15)	0.38	(0.172)	Stock	N5A20 ①	
6		(152.4)	120	500	39	(6)	0.44	(0.200)	Stock	N6A19	
6		(152.4)	240	500	39	(6)	0.44	(0.200)	Stock	N6A20 ①	
6		(152.4)	240	1000	78	(12)	0.44	(0.200)	Stock	N6A21 ①	
6		(154.4)	480	1000	78	(12)	0.44	(0.200)	Stock	N6A225 ②	
6		(152.4)	240	1500	116	(18)	0.44	(0.200)	Stock	N6A82	
6		(152.4)	240	2000	155	(24)	0.44	(0.200)	Stock	N6A22 ①	
7		(177.8)	120	500	33	(5)	0.51	(0.231)	Stock	N7A15	
7		(177.8)	240	500	33	(5)	0.51	(0.231)	Stock	N7A1 ①	
7		(177.8)	240	1000	66	(10)	0.51	(0.231)	Stock	N7A16 ①	
8	(203.2)	120	500	28	(4)	0.58	(0.263)	Stock	N8A19		

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① MI leads available from stock. Add "Z" after Code No. to order.

② Units with 480 volts cannot be supplied with LA lead terminations.

Cartridge Heaters

FIREROD

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)		
¾	8	(203.2)	240	500	28	(4)	0.58	(0.263)	Stock	N8A20 ①
	8	(203.2)	240	1000	57	(9)	0.58	(0.263)	Stock	N8A21 ①
	8	(203.2)	240	2000	114	(17)	0.58	(0.263)	Stock	N8A22 ①
	10	(254)	240	1000	45	(7)	0.72	(0.327)	Stock	N10A15 ①
	10	(254)	240	2000	90	(14)	0.72	(0.327)	Stock	N10A14 ①
	12	(304.8)	240	1000	37	(6)	0.84	(0.381)	Stock	N12A15 ①
	12	(304.8)	240	2000	74	(11)	0.84	(0.381)	Stock	N12A24
	12	(304.8)	480	2000	74	(11)	0.84	(0.381)	Stock	N12A198 ②
	12	(304.8)	240	4000	148	(23)	0.84	(0.381)	Stock	N12A25
	13	(304.8)	240	1000	34	(5)	0.93	(0.422)	Stock	N13A26 ①
	14	(355.6)	240	1250	40	(6)	1.03	(0.467)	Stock	N14A22 ①
	14	(355.6)	240	2500	79	(12)	1.03	(0.467)	Stock	N14A20
	14	(355.6)	240	4500	142	(22)	1.03	(0.467)	Stock	N14A21
	15	(381)	240	1500	44	(22)	1.09	(0.494)	Stock	N15A26 ①
	16	(406.4)	240	1800	49	(8)	1.14	(0.517)	Stock	N16A26 ①
	16	(406.4)	240	4700	129	(20)	1.14	(0.517)	Stock	N16A18
	18	(457.2)	240	2000	49	(8)	1.25	(0.567)	Stock	N18A13
	18	(457.2)	240	5000	122	(19)	1.25	(0.567)	Stock	N18A15
	20	(508)	240	1150	25	(4)	1.40	(0.635)	Stock	N20A21 ①
	20	(508)	240	2250	49	(8)	1.40	(0.635)	Stock	N20A22 ①
20	(508)	240	5250	115	(18)	1.40	(0.635)	Stock	N20A10	
24	(609.6)	240	1375	25	(4)	1.80	(0.816)	Stock	N24A24	
24	(609.6)	240	2750	50	(8)	1.80	(0.816)	Stock	N24A23	
24	(609.6)	480	2750	50	(8)	1.80	(0.816)	Stock	N24A78 ②	
24	(609.6)	240	5500	100	(16)	1.80	(0.816)	Stock	N24A13	
36	(914.4)	240	2500	30	(6)	2.50	(1.13)	Stock	N36A4	

① MI leads available from stock. Add "Z" after Code No. to order.

② Units with 480 volts cannot be supplied with LA lead terminations.

Cartridge Heaters

FIREROD

Heaters for Hot Runner Systems

Diameter inches	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code No.	Incoe® Part No.
	inches	(mm)			W/in ²	(W/cm ²)	lbs	(kg)			
¾	1 ¼	(44.5)	240	200	142	(22)	0.09	(0.041)	Stock	G1NX39E	TJ38017
	2	(50.8)	240	250	152	(24)	0.09	(0.041)	Stock	G2AX163B	TJ38020
	2 ½	(63.5)	240	250	112	(17)	0.10	(0.045)	Stock	G2JX131D	TJ38025
	3	(76.2)	240	260	92	(14)	0.10	(0.045)	Stock	G3AX238K	TJ38030
	3 ½	(88.9)	240	320	91	(14)	0.12	(0.054)	Stock	G3JX114K	TJ38035
	4	(101.6)	240	370	92	(14)	0.12	(0.054)	Stock	G4AX255D	TJ38040
	4 ½	(114.3)	240	420	90	(14)	0.13	(0.059)	Stock	G4JX84E	TJ38045
	5	(127)	240	470	108	(17)	0.14	(0.064)	Stock	G5AX183E	TJ38050
	5 ½	(139.7)	240	525	91	(14)	0.15	(0.068)	Stock	G5JX64C	TJ38055
	6	(152.4)	240	575	90	(14)	0.15	(0.068)	Stock	G6AX222D	TJ38060
	6 ½	(165.1)	240	625	93	(15)	0.16	(0.073)	Stock	G6JX34C	TJ38065
	7	(177.8)	240	675	92	(14)	0.17	(0.077)	Stock	G7AX105C	TJ38070
	7 ½	(190.5)	240	725	101	(16)	0.18	(0.082)	Stock	G7JX36D	TJ38075
	8	(203.2)	240	775	91	(14)	0.19	(0.086)	Stock	G8AX202C	TJ38080
	3 ½	(88.9)	240	420	92	(14)	0.17	(0.077)	Stock	J3JX103C	TJ12035
	4	(101.6)	240	490	90	(14)	0.19	(0.086)	Stock	J4AX372A	TJ12040
4 ½	(114.3)	240	550	80	(12)	0.20	(0.091)	Stock	J4JX62C	TJ12045	
½	5	(127)	240	625	89	(14)	0.22	(0.100)	Stock	J5AX178B	TJ12050
	5 ½	(139.7)	240	700	91	(14)	0.23	(0.104)	Stock	J5JX54B	TJ12055
	6	(152.4)	240	775	104	(16)	0.25	(0.113)	Stock	J6AX412A	TJ12060
	6 ½	(165.1)	240	850	104	(16)	0.26	(0.118)	Stock	J6JX45C	TJ12065
	7 ½	(190.5)	240	975	100	(16)	0.29	(0.132)	Stock	J7JX88A	TJ12075

Note: All heaters have Type J thermocouple in location C and 36 inch swaged-in leads.