

# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers

Diameter in.	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code Number
	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
1/8	1 1/4	(32.0)	120	25	87	(13)	0.02	(0.009)	Stock	C1E14
	1 1/4	(32.0)	120	50	174	(18)	0.02	(0.009)	Stock	C1E13
	1 1/4	(32.0)	240	35	113	(27)	0.02	(0.009)	Stock	C1E42
	1 1/2	(38.0)	120	30	78	(12)	0.02	(0.009)	Stock	C1J5
	1 1/2	(38.0)	120	60	156	(24)	0.02	(0.009)	Stock	C1J6
	2	(51.0)	120	50	87	(13)	0.02	(0.009)	Stock	C2A4
	2	(51.0)	120	100	174	(27)	0.02	(0.009)	Stock	C2A5
1/4	1	(25.0)	120	80	208	(32)	0.02	(0.009)	Stock	E1A51
	1	(25.0)	120	100	260	(40)	0.02	(0.009)	Stock	E1A52
	1	(25.0)	120	150	390	(60)	0.02	(0.009)	Stock	E1A53
	1	(25.0)	240	100	250	(39)	0.02	(0.009)	Stock	E1A66
	1 1/4	(32.0)	120	75	130	(20)	0.02	(0.009)	Stock	E1E41
	1 1/4	(32.0)	120	100	173	(27)	0.02	(0.009)	Stock	E1E42
	1 1/4	(32.0)	120	150	260	(40)	0.02	(0.009)	Stock	E1E43
	1 1/4	(32.0)	240	225	390	(60)	0.02	(0.009)	Stock	E1E61
	1 1/2	(38.0)	120	50	65	(10)	0.02	(0.009)	Stock	E1J39
	1 1/2	(38.0)	120	100	130	(20)	0.02	(0.009)	Stock	E1J40
	1 1/2	(38.0)	120	150	195	(30)	0.02	(0.009)	Stock	E1J41
	1 1/2	(38.0)	240	175	228	(35)	0.02	(0.009)	Stock	E1J49
	1 1/2	(38.0)	120	200	260	(40)	0.02	(0.009)	Stock	E1J42
	1 1/2	(38.0)	240	200	260	(40)	0.02	(0.009)	Stock	E1J52
	1 1/2	(38.0)	240	250	325	(50)	0.02	(0.009)	Stock	E1J35
	2	(51.0)	120	80	68	(11)	0.03	(0.014)	Stock	E2A136
	2	(51.0)	120	100	87	(13)	0.03	(0.014)	Stock	E2A55
	2	(51.0)	240	125	108	(17)	0.03	(0.014)	Stock	E2A82
	2	(51.0)	120	150	130	(20)	0.03	(0.014)	Stock	E2A56
	2	(51.0)	240	150	130	(20)	0.03	(0.014)	Stock	E2A77
	2	(51.0)	120	200	173	(27)	0.03	(0.014)	Stock	E2A57
	2	(51.0)	240	200	173	(27)	0.03	(0.014)	Stock	E2A50
	2	(51.0)	120	250	217	(33)	0.03	(0.014)	Stock	E2A72
	2	(51.0)	240	250	215	(33)	0.03	(0.014)	Stock	E2A76
	2	(51.0)	240	300	260	(40)	0.03	(0.014)	Stock	E2A83
	2 1/2	(64.0)	120	250	159	(25)	0.03	(0.014)	Stock	E2J80
	2 1/2	(64.0)	240	250	159	(25)	0.03	(0.014)	Stock	E2J49
	3	(76.0)	120	100	52	(8)	0.04	(0.018)	Stock	E3A48
	3	(76.0)	120	200	104	(16)	0.04	(0.018)	Stock	E3A49
	3	(76.0)	240	200	104	(16)	0.04	(0.018)	Stock	E3A60
	3	(76.0)	240	250	128	(20)	0.04	(0.018)	Stock	E3A124
	3	(76.0)	120	300	156	(24)	0.04	(0.018)	Stock	E3A50
	3	(76.0)	240	300	156	(24)	0.04	(0.018)	Stock	E3A51
	4	(102.0)	120	100	37	(6)	0.04	(0.018)	Stock	E4A28
	4	(102.0)	120	200	74	(11)	0.04	(0.018)	Stock	E4A29
	4	(102.0)	240	200	74	(11)	0.04	(0.018)	Stock	E4A32
	4	(102.0)	120	300	111	(17)	0.04	(0.018)	Stock	E4A30
	4	(102.0)	240	300	111	(17)	0.04	(0.018)	Stock	E4A6
	4 1/2	(114.0)	120	200	64	(10)	0.05	(0.023)	Stock	E4J30
	5	(127.0)	240	350	101	(16)	0.05	(0.023)	Stock	E5A45
	5	(127.0)	120	400	113	(18)	0.05	(0.023)	Stock	E5A57
	5	(127.0)	240	400	113	(18)	0.05	(0.023)	Stock	E5A34
6	(152.0)	240	400	94	(14)	0.06	(0.027)	Stock	E6A46	
8	(203.0)	240	800	136	(21)	0.08	(0.036)	Stock	E8A76	

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	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
3/8	1	(25.0)	120	55	95	(15)	0.03	(0.014)	Stock	G1A71
	1	(25.0)	120	100	172	(26)	0.03	(0.014)	Stock	G1A29
	1	(25.0)	120	150	259	(40)	0.03	(0.014)	Stock	G1A38
	1	(25.0)	240	200	344	(53)	0.03	(0.014)	Stock	G1A83
1/4	1 1/4	(32.0)	120	100	115	(18)	0.03	(0.014)	Stock	G1E91
	1 1/4	(32.0)	120	125	144	(22)	0.03	(0.014)	Stock	G1E74
	1 1/4	(32.0)	120	150	172	(27)	0.03	(0.014)	Stock	G1E92
	1 1/4	(32.0)	240	150	172	(27)	0.03	(0.014)	Stock	G1E93
	1 1/4	(32.0)	120	200	230	(35)	0.03	(0.014)	Stock	G1E94
	1 1/4	(32.0)	240	200	230	(36)	0.03	(0.014)	Stock	G1E95
1 1/8	1 1/8	(32.0)	120	400	426	(66)	0.03	(0.014)	Stock	G1E99
	1 1/8	(33.3)	120	100	104	(16)	0.03	(0.014)	Stock	G1F13
	1 1/8	(33.3)	240	100	104	(16)	0.03	(0.014)	Stock	G1F15
1 1/16	1 1/16	(33.3)	120	150	160	(25)	0.03	(0.014)	Stock	G1F17
	1 1/8	(34.9)	240	160	151	(23)	0.03	(0.014)	Stock	G1G23
1 7/16	1 7/16	(36.5)	120	100	94	(15)	0.03	(0.014)	Stock	G1H6
	1 1/2	(38.0)	120	50	43	(7)	0.04	(0.018)	Stock	G1J25
1 1/2	1 1/2	(38.0)	120	75	65	(10)	0.04	(0.018)	Stock	G1J70
	1 1/2	(38.0)	120	80	68	(11)	0.04	(0.018)	Stock	G1J66
	1 1/2	(38.0)	120	100	86	(13)	0.04	(0.018)	Stock	G1J59
	1 1/2	(38.0)	240	100	86	(13)	0.04	(0.018)	Stock	G1J110
	1 1/2	(38.0)	240	125	106	(16)	0.04	(0.018)	Stock	G1J182
	1 1/2	(38.0)	120	150	129	(20)	0.04	(0.018)	Stock	G1J31
	1 1/2	(38.0)	240	150	129	(20)	0.04	(0.018)	Stock	G1J39
	1 1/2	(38.0)	120	200	173	(27)	0.04	(0.018)	Stock	G1J85
	1 1/2	(38.0)	240	200	173	(27)	0.04	(0.018)	Stock	G1J73
	1 1/2	(38.0)	120	250	216	(33)	0.04	(0.018)	Stock	G1J86
1 1/4	1 1/4	(38.0)	240	250	216	(33)	0.04	(0.018)	Stock	G1J54
	1 1/4	(45.0)	120	125	86	(13)	0.05	(0.023)	Stock	G1N45
	1 1/4	(45.0)	120	175	122	(19)	0.05	(0.023)	Stock	G1N46
	1 1/4	(45.0)	120	250	172	(27)	0.05	(0.023)	Stock	G1N43
1 3/8	1 3/8	(45.0)	240	250	172	(27)	0.05	(0.023)	Stock	G1N32
	1 13/16	(46.0)	240	150	98	(15)	0.05	(0.023)	Stock	G1P14
	1 13/16	(46.0)	120	200	129	(20)	0.05	(0.023)	Stock	G1P15
	1 13/16	(46.0)	240	250	161	(25)	0.05	(0.023)	Stock	G1P11
1 1/2	1 1/2	(47.6)	120	250	152	(24)	0.05	(0.023)	Stock	G1R14
	2	(51.0)	120	50	29	(5)	0.06	(0.027)	Stock	G2A53
2	2	(51.0)	120	75	42	(7)	0.06	(0.027)	Stock	G2A192
	2	(51.0)	120	100	57	(9)	0.06	(0.027)	Stock	G2A84
	2	(51.0)	240	100	57	(9)	0.06	(0.027)	Stock	G2A76
	2	(51.0)	120	150	86	(13)	0.06	(0.027)	Stock	G2A56
	2	(51.0)	240	150	86	(13)	0.06	(0.027)	Stock	G2A81
	2	(51.0)	120	200	115	(18)	0.06	(0.027)	Stock	G2A127
	2	(51.0)	240	200	115	(18)	0.06	(0.027)	Stock	G2A37
	2	(51.0)	120	250	144	(22)	0.06	(0.027)	Stock	G2A47
	2	(51.0)	240	250	144	(22)	0.06	(0.027)	Stock	G2A73
	2	(51.0)	120	300	172	(27)	0.06	(0.027)	Stock	G2A139
2	2	(51.0)	240	300	172	(27)	0.06	(0.027)	Stock	G2A98
	2	(51.0)	120	400	230	(36)	0.06	(0.027)	Stock	G2A153
	2	(51.0)	240	400	230	(36)	0.06	(0.027)	Stock	G2A146
	2	(51.0)	120	500	282	(44)	0.06	(0.027)	Stock	G2A95

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	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
%	2	(51.0)	240	500	282	(44)	0.06	(0.027)	Stock	G2A97
	2 1/8	(54.0)	240	200	106	(16)	0.06	(0.027)	Stock	G2C13
%	2 1/4	(57.0)	120	75	37	(6)	0.07	(0.032)	Stock	G2E88
	2 1/4	(57.0)	120	125	62	(10)	0.07	(0.032)	Stock	G2E89
%	2 1/4	(57.0)	240	125	62	(10)	0.07	(0.032)	Stock	G2E138
	2 1/4	(57.0)	240	150	73	(11)	0.07	(0.032)	Stock	G2E68
%	2 1/4	(57.0)	120	175	86	(13)	0.07	(0.032)	Stock	G2E90
	2 1/4	(57.0)	120	250	123	(19)	0.07	(0.032)	Stock	G2E2
%	2 1/4	(57.0)	240	250	123	(19)	0.07	(0.032)	Stock	G2E78
	2 1/4	(57.0)	120	300	148	(23)	0.07	(0.032)	Stock	G2E108
%	2 1/4	(57.0)	240	300	148	(23)	0.07	(0.032)	Stock	G2E12
	2 1/4	(57.0)	120	350	173	(27)	0.07	(0.032)	Stock	G2E91
%	2 1/4	(57.0)	240	350	173	(27)	0.07	(0.032)	Stock	G2E75
	2 1/2	(64.0)	120	200	87	(13)	0.07	(0.032)	Stock	G2J110
%	2 1/2	(64.0)	240	200	87	(13)	0.07	(0.032)	Stock	G2J81
	2 1/2	(64.0)	120	250	108	(17)	0.07	(0.032)	Stock	G2J46
%	2 1/2	(64.0)	240	250	108	(17)	0.07	(0.032)	Stock	G2J80
	2 1/2	(64.0)	120	300	130	(20)	0.07	(0.032)	Stock	G2J118
%	2 1/2	(64.0)	240	300	130	(20)	0.07	(0.032)	Stock	G2J119
	2 1/2	(64.0)	120	400	174	(27)	0.07	(0.032)	Stock	G2J26
%	2 1/2	(64.0)	240	400	174	(27)	0.07	(0.032)	Stock	G2J146
	2 1/2	(64.0)	120	500	216	(33)	0.07	(0.032)	Stock	G2J109
%	2 1/2	(64.0)	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	(76.0)	120	100	34	(5)	0.08	(0.036)	Stock	G3A55	
	(76.0)	240	100	34	(5)	0.08	(0.036)	Stock	G3A137	
3	(76.0)	120	150	52	(8)	0.08	(0.036)	Stock	G3A121	
	(76.0)	120	200	69	(11)	0.08	(0.036)	Stock	G3A61	
3	(76.0)	240	200	69	(11)	0.08	(0.036)	Stock	G3A39	
	(76.0)	120	250	86	(13)	0.08	(0.036)	Stock	G3A52	
3	(76.0)	240	250	86	(13)	0.08	(0.036)	Stock	G3A54	
	(76.0)	120	300	104	(16)	0.08	(0.036)	Stock	G3A73	
3	(76.0)	240	300	104	(16)	0.08	(0.036)	Stock	G3A92	
	(76.0)	120	400	138	(21)	0.08	(0.036)	Stock	G3A44	
3	(76.0)	240	400	138	(21)	0.08	(0.036)	Stock	G3A65	
	(76.0)	120	500	173	(27)	0.08	(0.036)	Stock	G3A119	
3	(76.0)	240	500	173	(27)	0.08	(0.036)	Stock	G3A120	
	(76.0)	240	600	208	(32)	0.08	(0.036)	Stock	G3A133	
3 1/16	(84.2)	120	500	152	(24)	0.08	(0.036)	Stock	G3F24	
3 1/2	(89.0)	120	250	72	(11)	0.09	(0.041)	Stock	G3J77	
	(89.0)	240	250	72	(11)	0.09	(0.041)	Stock	G3J65	
3 1/2	(89.0)	120	300	87	(13)	0.09	(0.041)	Stock	G3J87	
	(89.0)	240	300	87	(13)	0.09	(0.041)	Stock	G3J68	
3 1/2	(89.0)	120	500	144	(22)	0.09	(0.041)	Stock	G3J22	
	(89.0)	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	
	(96.8)	240	500	128	(20)	0.09	(0.041)	Stock	G3P3	

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				W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
½	4 (102.0)	120	125	31	(5)	0.09	(0.041)	Stock	<b>G4A54</b>
	4 (102.0)	240	125	31	(5)	0.09	(0.041)	Stock	<b>G4A163</b>
	4 (102.0)	120	150	37	(6)	0.09	(0.041)	Stock	<b>G4A78</b>
	4 (102.0)	120	175	43	(7)	0.09	(0.041)	Stock	<b>G4A191</b>
	4 (102.0)	120	250	62	(10)	0.09	(0.041)	Stock	<b>G4A40</b>
¾	4 (102.0)	240	250	62	(10)	0.09	(0.041)	Stock	<b>G4A87</b>
	4 (102.0)	120	300	74	(11)	0.09	(0.041)	Stock	<b>G4A94</b>
	4 (102.0)	240	300	74	(11)	0.09	(0.041)	Stock	<b>G4A95</b>
	4 (102.0)	120	400	99	(15)	0.09	(0.041)	Stock	<b>G4A48</b>
	4 (102.0)	240	400	99	(15)	0.09	(0.041)	Stock	<b>G4A44</b>
1	4 (102.0)	240	450	109	(17)	0.09	(0.041)	Stock	<b>G4A64</b>
	4 (102.0)	120	500	123	(19)	0.09	(0.041)	Stock	<b>G4A96</b>
	4 (102.0)	240	500	123	(19)	0.09	(0.041)	Stock	<b>G4A92</b>
	4 (102.0)	120	550	134	(21)	0.09	(0.041)	Stock	<b>G4A200</b>
1¼	4 (108.0)	240	300	67	(10)	0.09	(0.041)	Stock	<b>G4E25</b>
	4 (108.0)	240	750	167	(26)	0.09	(0.041)	Stock	<b>G4E15</b>
1½	4 (114.0)	120	300	65	(10)	0.10	(0.045)	Stock	<b>G4J54</b>
	4 (114.0)	240	300	65	(10)	0.10	(0.045)	Stock	<b>G4J33</b>
	4 (114.0)	120	500	108	(17)	0.10	(0.045)	Stock	<b>G4J55</b>
	4 (114.0)	240	500	108	(17)	0.10	(0.045)	Stock	<b>G4J37</b>
1⅝	4 (122.2)	240	300	59	(9)	0.11	(0.050)	Stock	<b>G4P11</b>
	4 (122.2)	240	500	98	(15)	0.11	(0.050)	Stock	<b>G4P3</b>
2	5 (127.0)	120	150	29	(4)	0.11	(0.050)	Stock	<b>G5A68</b>
	5 (127.0)	240	150	29	(4)	0.11	(0.050)	Stock	<b>G5A56</b>
	5 (127.0)	120	300	58	(9)	0.11	(0.050)	Stock	<b>G5A69</b>
	5 (127.0)	240	300	58	(9)	0.11	(0.050)	Stock	<b>G5A70</b>
	5 (127.0)	120	500	96	(15)	0.11	(0.050)	Stock	<b>G5A38</b>
2½	5 (127.0)	240	500	96	(15)	0.11	(0.050)	Stock	<b>G5A71</b>
	5 (127.0)	240	750	144	(22)	0.11	(0.050)	Stock	<b>G5A67</b>
	5 (127.0)	240	1000	192	(30)	0.11	(0.050)	Stock	<b>G5A115</b>
	5 (127.0)	240	1000	192	(30)	0.11	(0.050)	Stock	<b>G5A115</b>
2¾	5 (133.0)	240	200	45	(7)	0.12	(0.054)	Stock	<b>G5E16</b>
	5 (140.0)	240	600	104	(16)	0.12	(0.054)	Stock	<b>G5J36</b>
3	5 (140.0)	240	1000	173	(27)	0.12	(0.054)	Stock	<b>G5J45</b>
	6 (152.0)	120	200	31	(5)	0.13	(0.059)	Stock	<b>G6A80</b>
3½	6 (152.0)	120	250	39	(6)	0.13	(0.059)	Stock	<b>G6A40</b>
	6 (152.0)	240	250	39	(6)	0.13	(0.059)	Stock	<b>G6A92</b>
	6 (152.0)	120	400	63	(10)	0.13	(0.059)	Stock	<b>G6A81</b>
	6 (152.0)	240	400	63	(10)	0.13	(0.059)	Stock	<b>G6A82</b>
	6 (152.0)	120	500	79	(12)	0.13	(0.059)	Stock	<b>G6A125</b>
	6 (152.0)	240	500	79	(12)	0.13	(0.059)	Stock	<b>G6A59</b>
	6 (152.0)	120	600	94	(15)	0.13	(0.059)	Stock	<b>G6A56</b>
	6 (152.0)	240	600	94	(15)	0.13	(0.059)	Stock	<b>G6A51</b>
	6 (152.0)	240	750	117	(18)	0.13	(0.059)	Stock	<b>G6A46</b>
	6 (152.0)	240	1000	157	(24)	0.13	(0.059)	Stock	<b>G6A83</b>
4	6 (152.0)	240	1000	157	(24)	0.13	(0.059)	Stock	<b>G6A83</b>
	6 (152.0)	240	1000	157	(24)	0.13	(0.059)	Stock	<b>G6A83</b>
4½	6 (165.0)	240	600	86	(13)	0.14	(0.064)	Stock	<b>G6J23</b>
	6 (165.0)	240	1000	144	(22)	0.14	(0.064)	Stock	<b>G6J33</b>
5	7 (178.0)	120	250	33	(5)	0.14	(0.064)	Stock	<b>G7A40</b>
	7 (178.0)	240	250	33	(5)	0.14	(0.064)	Stock	<b>G7A32</b>
	7 (178.0)	240	500	65	(10)	0.14	(0.064)	Stock	<b>G7A30</b>
	7 (178.0)	120	600	80	(12)	0.14	(0.064)	Stock	<b>G7A41</b>

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12 inch crimped on GGS leads supplied unless otherwise specified.

# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code Number
	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
¾	7	(178.0)	240	600	80	(12)	0.14	(0.064)	Stock	<b>G7A42</b>
	7	(178.0)	240	1000	133	(21)	0.14	(0.064)	Stock	<b>G7A43</b>
	7½	(191.0)	240	600	74	(11)	0.15	(0.068)	Stock	<b>G7J27</b>
	7½	(191.0)	240	1000	124	(19)	0.15	(0.068)	Stock	<b>G7J28</b>
	7⅝	(198.5)	240	750	87	(13)	0.15	(0.068)	Stock	<b>G7P5</b>
	8	(203.0)	120	300	34	(5)	0.16	(0.073)	Stock	<b>G8A54</b>
	8	(203.0)	240	300	34	(5)	0.16	(0.073)	Stock	<b>G8A47</b>
	8	(203.0)	120	400	45	(7)	0.16	(0.073)	Stock	<b>G8A109</b>
	8	(203.0)	120	500	58	(9)	0.16	(0.073)	Stock	<b>G8A81</b>
	8	(203.0)	240	500	58	(9)	0.16	(0.073)	Stock	<b>G8A32</b>
	8	(203.0)	120	600	69	(11)	0.16	(0.073)	Stock	<b>G8A53</b>
	8	(203.0)	240	600	69	(11)	0.16	(0.073)	Stock	<b>G8A37</b>
	8	(203.0)	240	700	79	(12)	0.16	(0.073)	Stock	<b>G8A98</b>
	8	(203.0)	240	1000	115	(18)	0.16	(0.073)	Stock	<b>G8A45</b>
	8⅞	(219.0)	240	500	52	(8)	0.17	(0.077)	Stock	<b>G8L3</b>
	9	(229.0)	240	1000	100	(16)	0.18	(0.082)	Stock	<b>G9A37</b>
	9½	(241.0)	240	600	57	(9)	0.19	(0.086)	Stock	<b>G9J20</b>
	9½	(241.0)	240	1000	96	(15)	0.19	(0.086)	Stock	<b>G9J12</b>
	10	(254.0)	120	400	36	(6)	0.19	(0.086)	Stock	<b>G10A48</b>
	10	(254.0)	120	600	54	(8)	0.19	(0.086)	Stock	<b>G10A35</b>
	10	(254.0)	240	600	54	(8)	0.19	(0.086)	Stock	<b>G10A31</b>
	10	(254.0)	240	1000	91	(14)	0.19	(0.086)	Stock	<b>G10A32</b>
	10⅞	(274.7)	240	375	31	(5)	0.20	(0.091)	Stock	<b>G10P5</b>
	12	(305.0)	120	400	30	(5)	0.22	(0.100)	Stock	<b>G12A45</b>
12	(305.0)	120	600	45	(7)	0.22	(0.100)	Stock	<b>G12A29</b>	
12	(305.0)	240	600	45	(7)	0.22	(0.100)	Stock	<b>G12A46</b>	
12	(305.0)	240	1000	75	(12)	0.22	(0.100)	Stock	<b>G12A47</b>	
12⅞	(325.5)	240	1000	69	(11)	0.23	(0.104)	Stock	<b>G12P3</b>	
½	1	(25.0)	120	50	65	(10)	0.06	(0.027)	Stock	<b>J1A30</b>
	1	(25.0)	120	150	193	(30)	0.06	(0.027)	Stock	<b>J1A31</b>
	1¼	(32.0)	120	50	43	(7)	0.07	(0.032)	Stock	<b>J1E50</b>
	1¼	(32.0)	120	125	107	(17)	0.07	(0.032)	Stock	<b>J1E51</b>
	1¼	(32.0)	240	125	107	(17)	0.07	(0.032)	Stock	<b>J1E58</b>
	1¼	(32.0)	240	200	172	(27)	0.07	(0.032)	Stock	<b>J1E52</b>
	1¼	(32.0)	240	250	212	(33)	0.07	(0.032)	Stock	<b>J1E88</b>
	1½	(38.0)	120	50	32	(3)	0.08	(0.036)	Stock	<b>J1J47</b>
	1½	(38.0)	120	150	97	(15)	0.08	(0.036)	Stock	<b>J1J48</b>
	1½	(38.0)	240	150	97	(15)	0.08	(0.036)	Stock	<b>J1J96</b>
	1½	(38.0)	120	200	128	(20)	0.08	(0.036)	Stock	<b>J1J59</b>
	1½	(38.0)	240	200	128	(20)	0.08	(0.036)	Stock	<b>J1J38</b>
	2	(51.0)	120	75	32	(5)	0.09	(0.041)	Stock	<b>J2A80</b>
	2	(51.0)	120	200	86	(13)	0.09	(0.041)	Stock	<b>J2A49</b>
	2	(51.0)	240	200	86	(13)	0.09	(0.041)	Stock	<b>J2A75</b>
	2	(51.0)	120	250	108	(17)	0.09	(0.041)	Stock	<b>J2A85</b>
	2	(51.0)	240	250	108	(17)	0.09	(0.041)	Stock	<b>J2A71</b>
	2	(51.0)	120	300	128	(20)	0.09	(0.041)	Stock	<b>J2A95</b>
	2	(51.0)	240	300	128	(20)	0.09	(0.041)	Stock	<b>J2A96</b>
	2	(51.0)	120	400	171	(27)	0.09	(0.041)	Stock	<b>J2A81</b>
	2	(51.0)	240	400	171	(27)	0.09	(0.041)	Stock	<b>J2A82</b>

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12 inch crimped on GGS leads supplied unless otherwise specified.

# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code Number
	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
½	2¼	(57.0)	120	75	28	(4)	0.10	(0.045)	Stock	J2E86
	2¼	(57.0)	120	125	46	(7)	0.10	(0.045)	Stock	J2E87
	2¼	(57.0)	120	250	92	(14)	0.10	(0.045)	Stock	J2E56
	2¼	(57.0)	240	250	92	(14)	0.10	(0.045)	Stock	J2E69
	2¼	(57.0)	120	400	147	(22)	0.10	(0.045)	Stock	J2E114
	2¼	(57.0)	240	400	147	(22)	0.10	(0.045)	Stock	J2E115
	2¼	(57.0)	120	500	184	(29)	0.10	(0.045)	Stock	J2E64
	2¼	(57.0)	240	500	184	(29)	0.10	(0.045)	Stock	J2E88
	2½	(60.3)	120	100	34	(5)	0.10	(0.045)	Stock	J2G35
	2½	(60.3)	240	100	34	(5)	0.10	(0.045)	Stock	J2G28
	2½	(60.3)	120	250	86	(13)	0.10	(0.045)	Stock	J2G34
	2½	(60.3)	240	250	86	(13)	0.10	(0.045)	Stock	J2G37
	2½	(60.3)	120	500	172	(27)	0.10	(0.045)	Stock	J2G36
	2½	(60.3)	240	500	172	(27)	0.10	(0.045)	Stock	J2G38
	2½	(64.0)	120	100	32	(5)	0.11	(0.050)	Stock	J2J67
	2½	(64.0)	240	100	32	(5)	0.11	(0.050)	Stock	J2J57
	2½	(64.0)	120	250	81	(13)	0.11	(0.050)	Stock	J2J68
	2½	(64.0)	240	250	81	(13)	0.11	(0.050)	Stock	J2J69
	2½	(64.0)	120	300	96	(15)	0.11	(0.050)	Stock	J2J109
	2½	(64.0)	240	300	96	(15)	0.11	(0.050)	Stock	J2J110
	2½	(64.0)	120	400	128	(20)	0.11	(0.050)	Stock	J2J81
	2½	(64.0)	240	400	128	(20)	0.11	(0.050)	Stock	J2J82
	2½	(64.0)	120	500	161	(24)	0.11	(0.050)	Stock	J2J66
	2½	(64.0)	240	500	161	(24)	0.11	(0.050)	Stock	J2J70
2⅞	(65.1)	120	350	108	(17)	0.11	(0.050)	Stock	J2K6	
2⅞	(65.1)	240	300	93	(14)	0.11	(0.050)	Stock	J2K3	
2¾	(70.0)	240	400	115	(18)	0.11	(0.050)	Stock	J2N43	
2¾	(70.0)	120	400	115	(18)	0.11	(0.050)	Stock	J2N45	
3	(76.0)	120	125	32	(5)	0.12	(0.054)	Stock	J3A108	
3	(76.0)	240	125	32	(5)	0.12	(0.054)	Stock	J3A109	
3	(76.0)	120	250	64	(10)	0.12	(0.054)	Stock	J3A107	
3	(76.0)	240	250	64	(10)	0.12	(0.054)	Stock	J3A89	
3	(76.0)	120	300	78	(12)	0.12	(0.054)	Stock	J3A65	
3	(76.0)	120	350	89	(14)	0.12	(0.054)	Stock	J3A173	
3	(76.0)	240	300	78	(12)	0.12	(0.054)	Stock	J3A73	
3	(76.0)	120	400	104	(16)	0.12	(0.054)	Stock	J3A132	
3	(76.0)	240	400	104	(16)	0.12	(0.054)	Stock	J3A29	
3	(76.0)	120	500	129	(20)	0.12	(0.054)	Stock	J3A110	
3	(76.0)	240	500	129	(20)	0.12	(0.054)	Stock	J3A111	
3	(76.0)	120	600	154	(24)	0.12	(0.054)	Stock	J3A51	
3	(76.0)	240	600	154	(24)	0.12	(0.054)	Stock	J3A127	
3	(76.0)	120	750	193	(30)	0.12	(0.054)	Stock	J3A137	
3	(76.0)	240	750	193	(30)	0.12	(0.054)	Stock	J3A112	
3	(76.0)	120	1000	254	(39)	0.12	(0.054)	Stock	J3A79	

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12 inch crimped on GGS leads supplied unless otherwise specified.

# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length in. (mm)	Volts	Watts	Watt Density W/in <sup>2</sup> (W/cm <sup>2</sup> )		Approx. Net Wt. lbs (kg)		Availability	Code Number
½	3½ (89.0)	120	250	54	(8)	0.14	(0.064)	Stock	J3J44
	3½ (89.0)	240	250	54	(8)	0.14	(0.064)	Stock	J3J64
	3½ (89.0)	240	350	75	(12)	0.14	(0.064)	Stock	J3J65
	3½ (89.0)	120	500	107	(17)	0.14	(0.064)	Stock	J3J45
	3½ (89.0)	240	500	107	(17)	0.14	(0.064)	Stock	J3J46
	3½ (89.0)	240	750	162	(25)	0.14	(0.064)	Stock	J3J63
	3⅞ (96.8)	120	500	96	(15)	0.15	(0.068)	Stock	J3P9
	3⅞ (96.8)	240	250	48	(7)	0.15	(0.068)	Stock	J3P2
	4 (102.0)	120	150	28	(4)	0.15	(0.068)	Stock	J4A117
	4 (102.0)	240	150	28	(4)	0.15	(0.068)	Stock	J4A122
	4 (102.0)	120	250	46	(7)	0.15	(0.068)	Stock	J4A118
	4 (102.0)	240	250	46	(7)	0.15	(0.068)	Stock	J4A90
	4 (102.0)	120	300	56	(9)	0.15	(0.068)	Stock	J4A63
	4 (102.0)	240	300	56	(9)	0.15	(0.068)	Stock	J4A26
	4 (102.0)	120	350	65	(10)	0.15	(0.068)	Stock	J4A1
	4 (102.0)	240	350	65	(10)	0.15	(0.068)	Stock	J4A103
	4 (102.0)	120	400	74	(11)	0.15	(0.068)	Stock	J4A139
	4 (102.0)	240	400	74	(11)	0.15	(0.068)	Stock	J4A68
	4 (102.0)	120	500	92	(14)	0.15	(0.068)	Stock	J4A16
	4 (102.0)	120	550	100	(16)	0.15	(0.068)	Stock	J4A242
4 (102.0)	240	500	92	(14)	0.15	(0.068)	Stock	J4A92	
4 (102.0)	120	750	138	(21)	0.15	(0.068)	Stock	J4A198	
4 (102.0)	240	750	138	(21)	0.15	(0.068)	Stock	J4A119	
4 (102.0)	240	1000	184	(28)	0.15	(0.068)	Stock	J4A73	
4½ (114.0)	120	500	80	(12)	0.17	(0.077)	Stock	J4J69	
4½ (114.0)	240	500	80	(12)	0.17	(0.077)	Stock	J4J57	
4½ (114.0)	120	750	120	(19)	0.17	(0.077)	Stock	J4J70	
4½ (114.0)	240	750	120	(19)	0.17	(0.077)	Stock	J4J32	
4⅞ (122.2)	240	300	44	(7)	0.19	(0.086)	Stock	J4P3	
4⅞ (122.2)	240	1000	148	(23)	0.19	(0.086)	Stock	J4P6	
5 (127.0)	120	200	29	(4)	0.19	(0.086)	Stock	J5A85	
5 (127.0)	240	200	29	(4)	0.19	(0.086)	Stock	J5A74	
5 (127.0)	120	350	50	(8)	0.19	(0.086)	Stock	J5A86	
5 (127.0)	240	350	50	(8)	0.19	(0.086)	Stock	J5A63	
5 (127.0)	120	400	58	(9)	0.19	(0.086)	Stock	J5A98	
5 (127.0)	240	400	58	(9)	0.19	(0.086)	Stock	J5A46	
5 (127.0)	120	500	72	(11)	0.19	(0.086)	Stock	J5A52	
5 (127.0)	240	500	72	(11)	0.19	(0.086)	Stock	J5A45	
5 (127.0)	120	750	108	(17)	0.19	(0.086)	Stock	J5A121	
5 (127.0)	240	750	108	(17)	0.19	(0.086)	Stock	J5A72	
5 (127.0)	240	1000	143	(22)	0.19	(0.086)	Stock	J5A87	
5½ (140.0)	240	200	25	(4)	0.20	(0.091)	Stock	J5J38	
5½ (140.0)	120	500	64	(10)	0.20	(0.091)	Stock	J5J43	
5½ (140.0)	240	500	64	(10)	0.20	(0.091)	Stock	J5J33	
5½ (140.0)	240	650	83	(13)	0.20	(0.091)	Stock	J5J69	
5½ (140.0)	120	750	97	(15)	0.20	(0.091)	Stock	J5J44	
5½ (140.0)	240	750	97	(15)	0.20	(0.091)	Stock	J5J45	
5¾ (146.0)	120	700	86	(13)	0.20	(0.091)	Stock	J5N6	
5¾ (146.0)	240	700	86	(13)	0.20	(0.091)	Stock	J5N8	
5⅞ (147.6)	240	300	36	(6)	0.21	(0.095)	Stock	J5P10	

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12 inch crimped on GGS leads supplied unless otherwise specified.

# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length		Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code Number
	in.	(mm)			W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)		
½	6	(152.0)	120	250	29	(4)	0.21	(0.095)	Stock	<b>J6A114</b>
	6	(152.0)	240	250	29	(4)	0.21	(0.095)	Stock	<b>J6A171</b>
	6	(152.0)	240	300	35	(6)	0.21	(0.095)	Stock	<b>J6A66</b>
	6	(152.0)	240	350	41	(7)	0.21	(0.095)	Stock	<b>J6A119</b>
	6	(152.0)	120	500	59	(9)	0.21	(0.095)	Stock	<b>J6A115</b>
	6	(152.0)	240	500	59	(9)	0.21	(0.095)	Stock	<b>J6A94</b>
	6	(152.0)	120	750	88	(14)	0.21	(0.095)	Stock	<b>J6A99</b>
	6	(152.0)	240	750	88	(14)	0.21	(0.095)	Stock	<b>J6A90</b>
	6	(152.0)	120	1000	117	(18)	0.21	(0.095)	Stock	<b>J6A53</b>
	6	(152.0)	240	1000	117	(18)	0.21	(0.095)	Stock	<b>J6A36</b>
	6½	(165.0)	240	500	54	(8)	0.23	(0.104)	Stock	<b>J6J45</b>
	6½	(165.0)	240	1000	108	(17)	0.23	(0.104)	Stock	<b>J6J27</b>
	7	(178.0)	120	250	25	(4)	0.24	(0.109)	Stock	<b>J7A79</b>
	7	(178.0)	120	500	50	(8)	0.24	(0.109)	Stock	<b>J7A80</b>
	7	(178.0)	240	500	50	(8)	0.24	(0.109)	Stock	<b>J7A57</b>
7	(178.0)	120	600	60	(9)	0.24	(0.109)	Stock	<b>J7A50</b>	
7	(178.0)	240	600	60	(9)	0.24	(0.109)	Stock	<b>J7A95</b>	
7	(178.0)	240	1000	99	(15)	0.24	(0.109)	Stock	<b>J7A81</b>	
7½	(191.0)	240	500	46	(7)	0.26	(0.118)	Stock	<b>J7J25</b>	
7½	(191.0)	240	1000	92	(14)	0.26	(0.118)	Stock	<b>J7J26</b>	
8	(203.0)	120	300	26	(4)	0.28	(0.127)	Stock	<b>J8A71</b>	
8	(203.0)	240	300	26	(4)	0.28	(0.127)	Stock	<b>J8A111</b>	
8	(203.0)	120	500	43	(7)	0.28	(0.127)	Stock	<b>J8A64</b>	
8	(203.0)	240	500	43	(7)	0.28	(0.127)	Stock	<b>J8A66</b>	
8	(203.0)	120	1000	86	(13)	0.28	(0.127)	Stock	<b>J8A84</b>	
8	(203.0)	240	1000	86	(13)	0.28	(0.127)	Stock	<b>J8A60</b>	
8	(203.0)	240	1500	129	(20)	0.28	(0.127)	Stock	<b>J8A100</b>	
8	(203.0)	240	2000	172	(27)	0.28	(0.127)	Stock	<b>J8A101</b>	
8½	(216.0)	240	300	24	(4)	0.29	(0.132)	Stock	<b>J8J39</b>	
8½	(216.0)	240	500	40	(6)	0.29	(0.132)	Stock	<b>J8J30</b>	
8½	(216.0)	240	1000	80	(12)	0.29	(0.132)	Stock	<b>J8J28</b>	
9	(229.0)	240	500	38	(6)	0.30	(0.136)	Stock	<b>J9A35</b>	
9	(229.0)	240	1000	76	(12)	0.30	(0.136)	Stock	<b>J9A58</b>	
9½	(241.0)	240	500	36	(6)	0.32	(0.145)	Stock	<b>J9J14</b>	
9½	(241.0)	240	1000	72	(11)	0.32	(0.145)	Stock	<b>J9J12</b>	
10	(254.0)	120	500	34	(5)	0.33	(0.150)	Stock	<b>J10A61</b>	
10	(254.0)	240	500	34	(5)	0.33	(0.150)	Stock	<b>J10A62</b>	
10	(254.0)	120	1000	68	(11)	0.33	(0.150)	Stock	<b>J10A63</b>	
10	(254.0)	240	1000	68	(11)	0.33	(0.150)	Stock	<b>J10A42</b>	
10	(254.0)	240	1500	102	(16)	0.33	(0.150)	Stock	<b>J10A33</b>	
10	(254.0)	240	2000	136	(21)	0.33	(0.150)	Stock	<b>J10A64</b>	
11	(279.0)	240	1000	61	(9)	0.36	(0.163)	Stock	<b>J11A60</b>	
12	(305.0)	120	500	28	(4)	0.40	(0.181)	Stock	<b>J12A63</b>	
12	(305.0)	240	500	28	(4)	0.40	(0.181)	Stock	<b>J12A76</b>	
12	(305.0)	120	1000	56	(9)	0.40	(0.181)	Stock	<b>J12A40</b>	
12	(305.0)	240	1000	56	(9)	0.40	(0.181)	Stock	<b>J12A49</b>	

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# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length in. (mm)	Volts	Watts	Watt Density W/in <sup>2</sup> (W/cm <sup>2</sup> )		Approx. Net Wt. lbs (kg)		Availability	Code Number
½	12 (305.0)	240	1500	84	(13)	0.40	(0.181)	Stock	J12A37
	12 (305.0)	240	2000	112	(17)	0.40	(0.181)	Stock	J12A89
	14 (356.0)	240	1000	48	(7)	0.48	(0.218)	Stock	J14A41
	14 (356.0)	240	2300	110	(17)	0.48	(0.218)	Stock	J14A39
	15 (381.0)	240	1500	66	(10)	0.50	(0.227)	Stock	J15A19
	16 (406.0)	240	1000	41	(7)	0.52	(0.236)	Stock	J16A12
	18 (457.0)	240	1500	55	(9)	0.57	(0.259)	Stock	J18A19
	18 (457.0)	240	1700	62	(9)	0.57	(0.259)	Stock	J18A23
¾	1¼ (32.0)	120	50	34	(5)	0.10	(0.045)	Stock	L1E26
	1¼ (32.0)	120	200	137	(21)	0.10	(0.045)	Stock	L1E24
	1¼ (32.0)	120	250	171	(27)	0.10	(0.045)	Stock	L1E27
	1½ (38.0)	120	250	128	(20)	0.11	(0.050)	Stock	L1J23
	1½ (38.0)	240	250	128	(20)	0.11	(0.050)	Stock	L1J24
	2 (51.0)	120	100	34	(5)	0.13	(0.059)	Stock	L2A48
	2 (51.0)	120	200	68	(11)	0.13	(0.059)	Stock	L2A49
	2 (51.0)	240	500	170	(26)	0.13	(0.059)	Stock	L2A54
	2¼ (57.0)	120	100	29	(4)	0.14	(0.064)	Stock	L2E49
	2¼ (57.0)	120	250	73	(11)	0.14	(0.064)	Stock	L2E50
	2¼ (57.0)	240	250	73	(11)	0.14	(0.064)	Stock	L2E12
	2¼ (57.0)	120	350	103	(16)	0.14	(0.064)	Stock	L2E40
	2¼ (57.0)	240	350	103	(16)	0.14	(0.064)	Stock	L2E51
	2½ (60.3)	120	280	77	(12)	0.16	(0.073)	Stock	L2G18
	2½ (60.3)	240	280	77	(12)	0.16	(0.073)	Stock	L2G19
	3 (76.0)	120	150	31	(5)	0.20	(0.091)	Stock	L3A81
	3 (76.0)	120	250	51	(8)	0.20	(0.091)	Stock	L3A82
	3 (76.0)	240	250	51	(8)	0.20	(0.091)	Stock	L3A9
	3 (76.0)	120	400	81	(13)	0.20	(0.091)	Stock	L3A94
	3 (76.0)	120	500	102	(16)	0.20	(0.091)	Stock	L3A113
	3 (76.0)	240	500	103	(16)	0.20	(0.091)	Stock	L3A33
	3 (76.0)	240	750	154	(24)	0.20	(0.091)	Stock	L3A71
	3¾ (95.0)	120	525	82	(13)	0.24	(0.109)	Stock	L3N12
	3¾ (95.0)	240	525	82	(13)	0.24	(0.109)	Stock	L3N1
	4 (102.0)	120	250	37	(6)	0.26	(0.118)	Stock	L4A99
	4 (102.0)	240	250	37	(6)	0.26	(0.118)	Stock	L4A104
	4 (102.0)	240	400	58	(9)	0.26	(0.118)	Stock	L4A47
	4 (102.0)	240	500	73	(11)	0.26	(0.118)	Stock	L4A53
	4 (102.0)	240	600	88	(14)	0.26	(0.118)	Stock	L4A44
	4 (102.0)	240	750	110	(17)	0.26	(0.118)	Stock	L4A100
	4 (102.0)	240	1000	146	(23)	0.26	(0.118)	Stock	L4A71
	5 (127.0)	120	250	28	(4)	0.29	(0.132)	Stock	L5A76
	5 (127.0)	240	250	28	(4)	0.29	(0.132)	Stock	L5A107
	5 (127.0)	240	500	57	(9)	0.29	(0.132)	Stock	L5A24
	5 (127.0)	240	750	86	(13)	0.29	(0.132)	Stock	L5A31
	5 (127.0)	240	1000	114	(18)	0.29	(0.132)	Stock	L5A77
	5½ (85.7)	120	800	84	(13)	0.30	(0.136)	Stock	L5G3
	5½ (85.7)	240	800	84	(13)	0.30	(0.136)	Stock	L5G1
	6 (152.0)	120	300	28	(4)	0.34	(0.154)	Stock	L6A28
	6 (152.0)	240	300	28	(4)	0.34	(0.154)	Stock	L6A64
	6 (152.0)	240	500	47	(7)	0.34	(0.154)	Stock	L6A73
	6 (152.0)	240	750	70	(11)	0.34	(0.154)	Stock	L6A70
6 (152.0)	240	1000	93	(14)	0.34	(0.154)	Stock	L6A71	

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# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length in. (mm)	Volts	Watts	Watt Density W/in <sup>2</sup> (W/cm <sup>2</sup> )		Approx. Net Wt. lbs (kg)		Availability	Code Number
½	6 (152.0)	120	1500	139	(22)	0.34	(0.154)	Stock	L6A163
	6 (152.0)	240	1500	140	(22)	0.34	(0.154)	Stock	L6A94
	6½ (165.0)	120	500	43	(7)	0.38	(0.172)	Stock	L6J43
	6½ (165.0)	240	500	43	(7)	0.38	(0.172)	Stock	L6J55
	7 (178.0)	120	500	39	(6)	0.40	(0.181)	Stock	L7A42
	7 (178.0)	240	500	39	(6)	0.40	(0.181)	Stock	L7A15
	7 (178.0)	240	1000	79	(12)	0.40	(0.181)	Stock	L7A37
	7 (178.0)	240	1500	118	(18)	0.40	(0.181)	Stock	L7A12
	8 (203.0)	120	500	34	(5)	0.47	(0.213)	Stock	L8A96
	8 (203.0)	240	500	34	(5)	0.47	(0.213)	Stock	L8A46
	8 (203.0)	240	850	58	(9)	0.47	(0.213)	Stock	L8A115
	8 (203.0)	240	1000	68	(10)	0.47	(0.213)	Stock	L8A10
	8 (203.0)	240	1500	102	(16)	0.47	(0.213)	Stock	L8A37
	8 (203.0)	240	2000	137	(21)	0.47	(0.213)	Stock	L8A80
	10 (254.0)	120	500	27	(4)	0.53	(0.240)	Stock	L10A51
	10 (254.0)	240	500	27	(4)	0.53	(0.240)	Stock	L10A40
	10 (254.0)	240	750	40	(6)	0.53	(0.240)	Stock	L10A69
	10 (254.0)	240	1000	54	(8)	0.53	(0.240)	Stock	L10A52
	10 (254.0)	480	1000	54	(8)	0.53	(0.240)	Stock	L10A193
	10 (254.0)	240	1500	81	(13)	0.53	(0.240)	Stock	L10A8
	10 (254.0)	240	2000	108	(17)	0.53	(0.240)	Stock	L10A50
	12 (305.0)	120	500	22	(3)	0.66	(0.300)	Stock	L12A81
	12 (305.0)	240	500	22	(3)	0.66	(0.300)	Stock	L12A80
	12 (305.0)	240	900	40	(6)	0.66	(0.300)	Stock	L12A102
	12 (305.0)	120	1000	45	(7)	0.66	(0.300)	Stock	L12A82
	12 (305.0)	240	1000	45	(7)	0.66	(0.300)	Stock	L12A34
	12 (305.0)	120	1500	66	(10)	0.66	(0.300)	Stock	L12A147
	12 (305.0)	240	1500	67	(10)	0.66	(0.300)	Stock	L12A39
	12 (305.0)	240	2000	89	(14)	0.66	(0.300)	Stock	L12A63
	14 (356.0)	240	3700	140	(22)	0.79	(0.358)	Stock	L14A21
	15 (381.0)	240	750	27	(4)	0.84	(0.381)	Stock	L15A35
	15 (381.0)	240	2400	84	(13)	0.84	(0.381)	Stock	L15A20
	15 (381.0)	480	2500	88	(14)	0.84	(0.381)	Stock	L15A88
	15 (381.0)	240	4000	141	(22)	0.84	(0.381)	Stock	L15A41
	16 (406.0)	240	2500	82	(13)	0.91	(0.412)	Stock	L16A33
	16 (406.0)	240	4500	148	(23)	0.91	(0.412)	Stock	L16A40
18 (457.0)	240	1500	44	(7)	1.03	(0.467)	Stock	L18A32	
18 (457.0)	240	3000	87	(13)	1.03	(0.467)	Stock	L18A34	
18 (457.0)	240	4700	137	(21)	1.03	(0.467)	Stock	L18A36	
20 (508.0)	240	1500	40	(6)	1.25	(0.567)	Stock	L20A19	
20 (508.0)	240	3500	92	(14)	1.25	(0.567)	Stock	L20A13	
20 (508.0)	480	3500	92	(14)	1.25	(0.567)	Stock	L20A96	
20 (508.0)	240	4700	123	(19)	1.25	(0.567)	Stock	L20A14	
24 (610.0)	240	2000	44	(7)	1.47	(0.667)	Stock	L24A19	
24 (610.0)	240	4700	102	(15)	1.47	(0.667)	Stock	L24A14	
36 (914.0)	240	3000	43	(7)	2.30	(1.04)	Stock	L36A8	
¾	2½ (57.0)	120	200	49	(8)	0.19	(0.086)	Stock	N2E8
	3 (76.0)	120	250	43	(7)	0.24	(0.109)	Stock	N3A11
	3 (76.0)	240	500	85	(13)	0.24	(0.109)	Stock	N3A12

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# Cartridge/Insertion Heaters

## FIREROD Cartridge Heaters

### Stock Heater Code Numbers (Continued)

Diameter in.	Sheath Length in. (mm)	Volts	Watts	Watt Density		Approx. Net Wt.		Availability	Code Number	
				W/in <sup>2</sup>	(W/cm <sup>2</sup> )	lbs	(kg)			
¾	4	(102.0)	120	250	31	(5)	0.31	(0.141)	Stock	N4A16
	4	(102.0)	240	500	61	(9)	0.31	(0.141)	Stock	N4A17
	4	(102.0)	240	1000	122	(19)	0.31	(0.141)	Stock	N4A15
	5	(127.0)	120	300	28	(4)	0.38	(0.172)	Stock	N5A19
	5	(127.0)	240	500	47	(7)	0.38	(0.172)	Stock	N5A12
	5	(127.0)	240	1000	95	(15)	0.38	(0.172)	Stock	N5A20
	6	(152.0)	120	500	39	(6)	0.44	(0.200)	Stock	N6A19
	6	(152.0)	240	500	39	(6)	0.44	(0.200)	Stock	N6A20
	6	(152.0)	240	1000	78	(12)	0.44	(0.200)	Stock	N6A21
	6	(152.0)	480	1000	78	(12)	0.44	(0.200)	Stock	N6A225
	6	(152.0)	240	1500	116	(18)	0.44	(0.200)	Stock	N6A82
	6	(152.0)	240	2000	155	(24)	0.44	(0.200)	Stock	N6A22
	7	(178.0)	120	500	33	(5)	0.51	(0.231)	Stock	N7A15
	7	(178.0)	240	500	33	(5)	0.51	(0.231)	Stock	N7A1
	7	(178.0)	240	1000	66	(10)	0.51	(0.231)	Stock	N7A16
	8	(203.0)	120	500	28	(4)	0.58	(0.263)	Stock	N8A19
	8	(203.0)	240	500	28	(4)	0.58	(0.263)	Stock	N8A20
	8	(203.0)	240	1000	57	(9)	0.58	(0.263)	Stock	N8A21
	8	(203.0)	240	2000	114	(17)	0.58	(0.263)	Stock	N8A22
	10	(254.0)	240	1000	45	(7)	0.72	(0.327)	Stock	N10A15
	10	(254.0)	240	2000	90	(14)	0.72	(0.327)	Stock	N10A14
	12	(305.0)	240	1000	37	(6)	0.84	(0.381)	Stock	N12A15
	12	(305.0)	240	2000	74	(11)	0.84	(0.381)	Stock	N12A24
	12	(305.0)	480	2000	74	(11)	0.84	(0.381)	Stock	N12A198
	12	(305.0)	240	4000	148	(23)	0.84	(0.381)	Stock	N12A25
	13	(330.0)	240	1000	34	(5)	0.93	(0.422)	Stock	N13A26
	14	(356.0)	240	1250	40	(6)	1.03	(0.467)	Stock	N14A22
	14	(356.0)	240	2500	79	(12)	1.03	(0.467)	Stock	N14A20
	14	(356.0)	240	4500	142	(22)	1.03	(0.467)	Stock	N14A21
	15	(381.0)	240	1500	44	(22)	1.09	(0.494)	Stock	N15A26
	16	(406.0)	240	1800	49	(8)	1.14	(0.517)	Stock	N16A26
	16	(406.0)	240	4700	129	(20)	1.14	(0.517)	Stock	N16A18
	18	(457.0)	240	2000	49	(8)	1.25	(0.567)	Stock	N18A13
	18	(457.0)	240	5000	122	(19)	1.25	(0.567)	Stock	N18A15
	20	(508.0)	240	1150	25	(4)	1.40	(0.635)	Stock	N20A21
	20	(508.0)	240	2250	49	(8)	1.40	(0.635)	Stock	N20A22
20	(508.0)	240	5250	115	(18)	1.40	(0.635)	Stock	N20A10	
24	(610.0)	240	1375	25	(4)	1.80	(0.816)	Stock	N24A24	
24	(610.0)	240	2750	50	(8)	1.80	(0.816)	Stock	N24A23	
24	(610.0)	480	2750	50	(8)	1.80	(0.816)	Stock	N24A78	
24	(610.0)	240	5500	100	(16)	1.80	(0.816)	Stock	N24A13	
36	(914.0)	240	2500	30	(6)	2.50	(1.13)	Stock	N36A4	

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