



# CARTRIDGE ELEMENTS

BJC Stainless steel cartridge elements feature...

- High heat density
- Fast Heating
- Stainless steel sheaths providing a stable, non-oxidising surface
- Maximum surface temperature 650°C (1200°F)
- Heat resistant flexible tails
- Heating element supported on high quality ceramic and solidly compacted with magnesium oxide
- Precision diameter tube for close fit in machined holes
- Basic list of designs are readily adaptable to suit special requirements, sizes and ratings
- Clearly stamp rated- Watts/Volts/Code No.

Our range of cartridge elements is commonly used in plastic dies, moulds, platens, bag sealers, carton making, shoe machinery, food vending, defrosting, electrical switch gear cabinets and a host of other applications. Listed at right are maximum wattages for each size and whilst they are not available from stock, these together with any other various lengths, wattages and voltages can be manufactured promptly.

## TOLERANCES

BJC cartridge elements are manufactured +0.00mm - 0.10mm for any given diameter. This sizing is maintained so that all units are a slide fit into a standard reamed hole. Thermal action will expand the element to ensure a close fit for maximum heat transfer. In most applications cartridge elements are inserted into reamed holes and dissipate their heat by direct contact thus allowing loadings up to 6.2 watts per square cm of surface area of the cartridge (40W per square inch) In applications where they are not in direct contact such as defrosting and air heating in switch gear cubicles, etc., then the maximum watt density must not exceed 3.1 watts per square cm of surface area (20W per square inch). All sizes feature flexible nickel wire leads with double glass insulation. Standard lead length is 250mm but longer leads can be supplied on application.



## 9.5 mm DIAMETER (3/8")

LENGTH mm	WATTAGE MAXIMUM	CAT NO.
50	80	62
65	100	625
75	125	63
90	145	635
100	170	64
115	190	645
125	215	65
140	240	655
150	260	66
180	300	67
205	350	68
230	400	69
255	440	610
280	485	611
305	530	612

## 12.7mm DIAMETER (1/2")

LENGTH mm	WATTAGE MAXIMUM	CAT NO.
50	100	82
65	135	825
75	165	83
90	195	835
100	225	84
115	260	845
125	290	85
140	320	855
150	350	86
180	410	87
205	470	88
230	530	89
255	590	810
280	650	811
305	710	812

## 15.8mm DIAMETER (5/8")

LENGTH mm	WATTAGE MAXIMUM	CAT NO.
50	125	102
65	165	1025
75	200	103
90	240	1035
100	280	104
115	320	1045
125	360	105
140	400	1055
150	440	106
180	520	107
205	600	108
230	680	109
255	750	1010
280	830	1011
305	910	1012

## 19mm DIAMETER (3/4")

LENGTH mm	WATTAGE MAXIMUM	CAT NO.
50	155	122
65	200	1225

75	245	123
90	290	1235
100	335	124
115	380	1245
125	425	125
140	470	1255
150	515	126
180	600	127
205	690	128
230	780	129
255	870	1210
280	960	1211
305	1050	1212

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