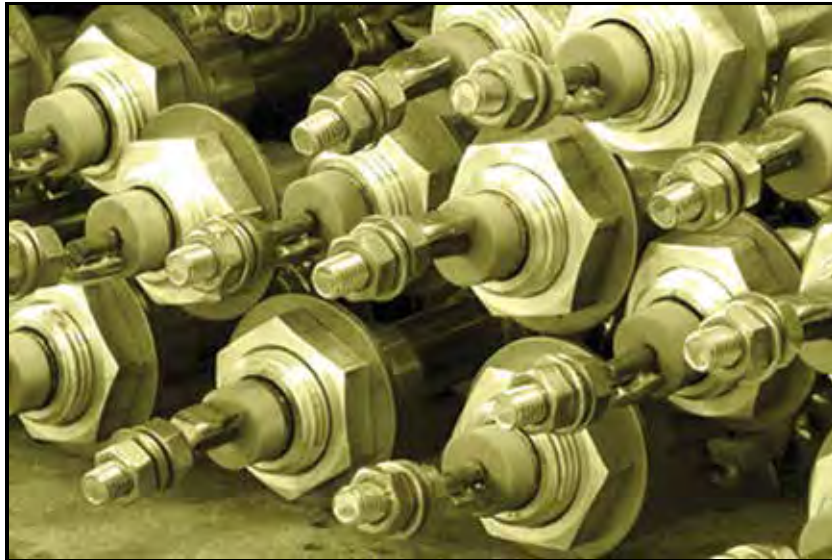


# Section 3

## Terminations

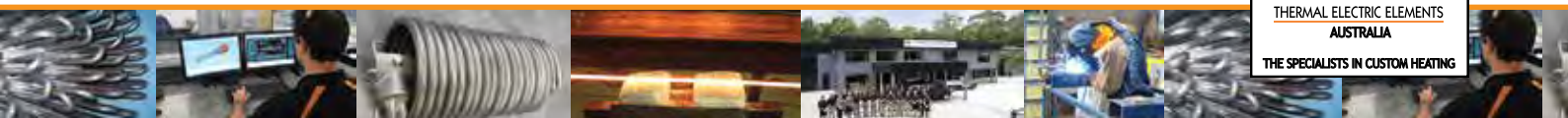


### Page

Leads and Termination Types  
Element Bushes & Locking Nuts

**3.1**

**3.3**



## Leads and Termination Types

### Leads

#### 1 Vulcanised Rubber Moulded Ends

A fully moisture resistant, high electrical insulated connection with extra mechanical strength around the cable to the element cold pin junction. Widely used within the refrigeration industry and applications where a wet environment exists.

#### 2 Heatshrink with Silicone or Rubber Leads

An economical alternative to the *vulcanised rubber moulded ends* type. Moisture resistant and also used within the refrigeration industry where less mechanical stress is present at the cable to element cold pin junction.

#### 3 High Temperature Leads with Silicone Coated Fibreglass or Teflon Sleeve

Used for ovens, heated platens, heater bands and nozzle elements.

### Terminations

#### 4 Stirrup

Used for higher temperature applications where the electrical connection can only be accessed from the front of the element.

#### 5 M5 Stud Spotweld

Used for higher temperatures where a firm connection with multiple cables or busbar is required. Supplied with locking nuts and washers.

#### 6 Flag

Used for higher temperature applications where an electrical connection can only be accessed 90° to the element.

#### 7 Quick Connect

Recommended to be used on heating elements not exceeding 1750 watts or 7.5 Amps current rating.

#### 8 M5 Brass Stud Crimp On

Used for lower temperature applications where a firm connection with multiple cables or busbar is required. Supplied with locking nuts and washers.

#### 9 Brass Post

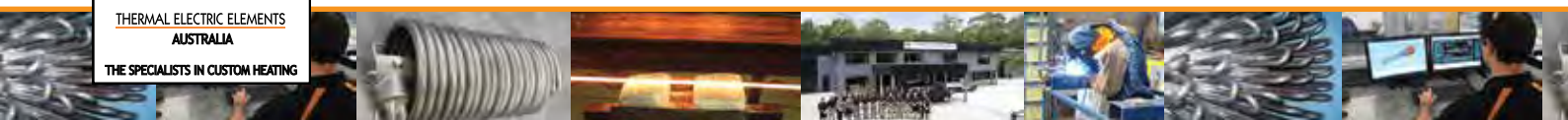
Used for lower temperature applications where an electrical connection can only be accessed from the front of the element.

#### 10 Trimmed Element Ends with Exposed Terminal Pin

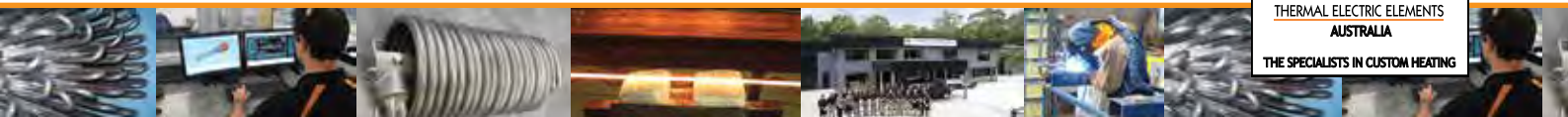
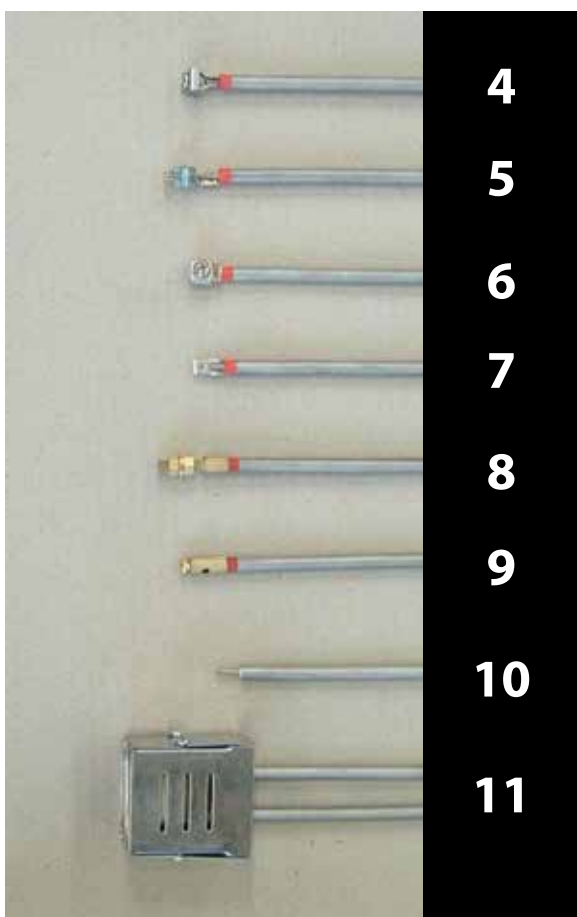
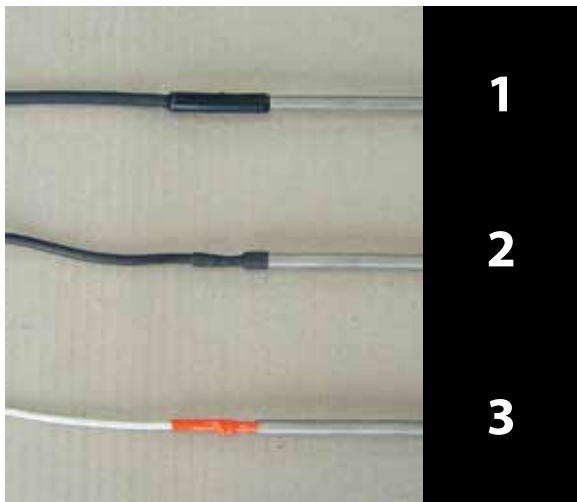
Lengths of 12mm to 50mm. Used where the end user has their own special electrical connections available.

#### 11 Plugall Socket

Used where electrical 2 pin ceramic or silicone Europlug is available. Widely used within the plastics industry, for heater bands, platen heaters, or any application where elements are being changed frequently for portable use.



## Leads and Terminations



## Element Bushes & Locking Nuts

Thermal's range of element bushes with matching locking nuts are available in SS, brass, aluminium and mild steel. Standard gaskets/washers available include brass, teflon, fibre, rubber, Clingerite, tooth lock and Kevlar with graphite high temperature/high pressure gaskets. Other options can be supplied upon request.

2" BSP Bush - Parallel Thread  
Thread Diameter - 60mm

1 1/2" BSP Bush - Taper Thread  
Thread Diameter - 48mm

1 1/4" BSP Bush - Parallel Thread  
Thread Diameter - 41mm

1" BSP Bush - Parallel Thread  
Thread Diameter - 33mm



### Crimp on Type

Suitable for dry applications, eg. air conditioning and ovens

3/8" BSP  
Thread Diameter - 16.5mm

1/4" BSP  
Thread Diameter - 13mm



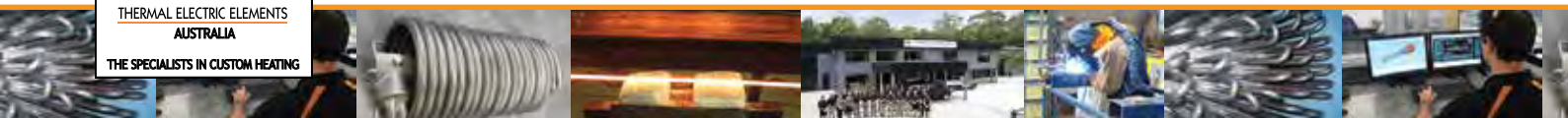
### Welded or Silver Brazed

Suitable for moist applications, eg. refrigeration or tanks

1/4" BSP  
Thread Diameter - 13mm

3/8" BSP  
Thread Diameter - 16.5mm

1/2" UNF  
Thread Diameter - 13mm



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