

### 6.2.8 Cable Glanding

Cable glands shall be applied at all places where electrical signal cables enter the housings of instruments and junction boxes.

All cable glands shall be of stainless steel and of the type which provide an armour clamp, as per BS 6121 or equivalent.

The gland thread form shall match the equipment threaded cable entries directly without the use of adaptors wherever possible. Cable entries shall be ISO thread form wherever possible.

All glands shall be protected by the use of PVC shrouds and silicon grease (Type M54).

All cable installation shall be designed to prevent any ingress of moisture. Bottom gland entries to instrument and junction boxes shall be used wherever possible. Where this is not possible, e.g. side entries to junction boxes then cables shall be looped downwards, ('U' shaped loop to be used).

P.C.P sealing washers shall be used on all field gland entries except those with a tapered thread.

Sufficient slack cable shall be left at junction boxes, instruments and individual core terminals to allow for remaking connections.

### 6.2.9 Wire Terminations

Crimped ferrules shall be used for stranded conductors.

Sufficient slack cable shall be left neatly at the terminals to allow for the remarking of terminations, additions and testing.

All spare cores within multicore cables shall be terminated in terminals at field junction boxes, local panels and termination cabinets within the cable entry room.

### 6.2.10 Junction Box Mounting

Junction boxes, wherever possible, will be grouped into a common area, mounted onto a frame referred to as a "JB Frame".

## 6.3 Fiber Optic Cables

### 6.3.1 Pre-installation testing

Pre-installation testing shall be performed on a reel of fiber optic cable after it is received from the supplier and before it is installed on the job site. The pre-installation testing shall verify :

- Cable has not been damaged during shipment.
- Cable contains no factory defects.



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