

Plumtest Bonding Strap Technical Data Sheet

Plumtest Code: 550262



The Cable used is a flexible rubber type

Suitable for use with Alternating Current (AC)

Copper wire section is 16mm² made up of 260 strands .028 plus or minus .005 mm

Inner Casing is EPR (Ethylene Propylene Rubber)

Outer Casing is CPE (Chlorinated Polyethylene)

Rated Temperature 90 Degrees Celsius

Voltage Rating 600/1000 Volts

Carrying Capacity 102 Amps

Manufactured to AS/NZ 1995

Length of Cable 1400mm between clamps

The Clamps are fully insulated copper clamps rated to 400 Amps

Use of Jumper Leads instead of Purpose-Built Bonding Straps

It is not recommended that jumper leads be used as an alternative, the reason being that many jumper leads are made with cable suitable only to transfer "Direct Current (DC)" and not "Alternating Current(AC)" as may be present when disconnecting or cutting metal pipework at a work site.

Below is an extract from an article written by Roger Lambie, a highly experienced and recognised authority on gas and safety issues. The full article appeared in the Plumbers Connection 2011

The method of overcoming stray electrical currents and gas piping is covered in Australian Standard 5601-2004 (2.11.4) that promotes the use of a metallic bridging device commonly known as a Bonding Strap.

AS 3500.1-2003 also describes the use of Bonding Straps and that they should have an electrical current rating of not less than 70 Amps.

Yesteryear the Gas & Fuel Corporation issued every individual person who was involved with fitting or disconnecting of Gas Meters, pipework and appliances with a set of Bonding Straps or equipment with similar abilities to suit different applications i.e. Cable that had specifically designed 'G' clamps to suit large installations or pipe work.

The most commonly known use for using Bonding Straps is when cutting pipework.

Always place one clamp on either side of cut that is to be performed and always work with the Bonding Strap in place even if either side of the cut pipe test safe with a Neon tester or Multi Meter.

Electrical appliances such as Refrigerators, Washing Machines and Dishwasher cycle during their operation therefore voltage (and any fault with these appliances) may not be detected when testing either side of a pipe or appliance, during a dormant period between cycles.

Bonding Straps should also be used when disconnecting an appliance and/or replacing an appliance, water and gas pipes, or changing a gas control or meter.