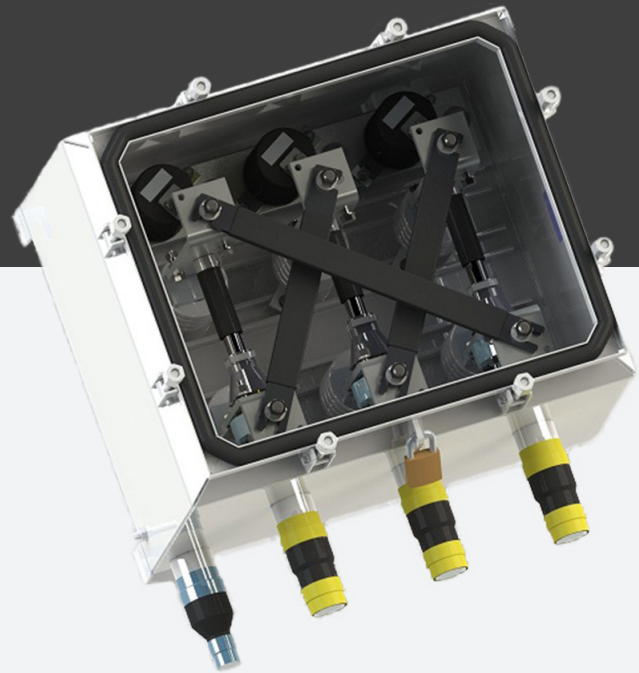


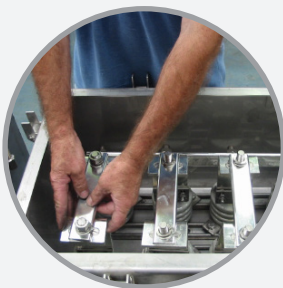


Link Boxes

High Voltage Cable Systems
Cable Sheath Earthing

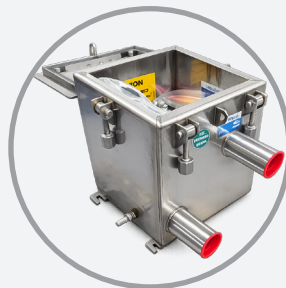


Insulect have a comprehensive range of link boxes covering the full range of HV cable sheath earthing applications. Link boxes provide a weather proof environment for the connecting links used for earthing or cross bonding of the metallic sheaths of high voltage cables.



Comprehensive range

Link boxes of all types for single core and concentric bonding cables.



Stainless steel enclosures

Fully tested and fully sealed SS316 enclosures, rated at a minimum of IP67.



Above or below ground

Universal design to suit indoor, outdoor and in-pit installation.



Local design and manufacture

Designed, manufactured and tested in Australia for over twenty years.

Features

LINK BOX DESIGN

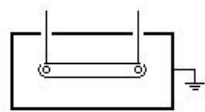
We have several link box designs that use various earthing practices to minimise sheath currents and provide sheath voltage protection. We readily meet individual customer requirements with custom design.

- Direct earthing and earthing through a sheath voltage limiter (SVL) surge arrester.
- Cross bonding with appropriate insulation withstand between phases.
- Provision of metal oxide SVL sheath voltage surge limiters for the protection of the HV cable sheath
- Single core and coaxial (concentric) bonding cable type terminations.

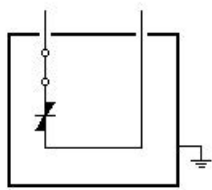
SHEATH VOLTAGE LIMITERS (SVL)

We manufacture our own quality range of 20kA zinc oxide SVLs in our Australian plant. See our separate SVL datasheet for detailed information.

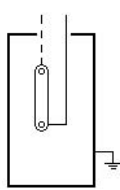
Typical Configurations



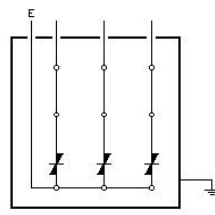
ES1



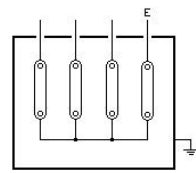
LS1



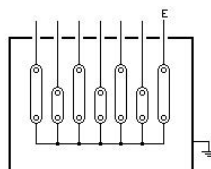
EC1



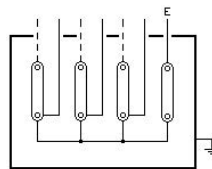
LS3



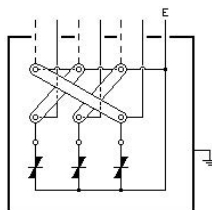
ES3



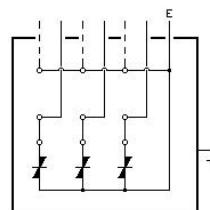
ES6



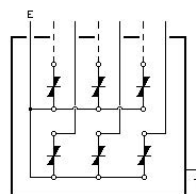
EC6



BC6



TC6



LC6

Other Specifications

Housing: 4mm 316 stainless steel, 8mm SS316 for lids.

Links: extruded copper in hard drawn high conductivity 300mm² minimum.

Plating: all conductors plated with $\geq 8\mu\text{m}$ of tin

Stress cones: polyurethane elastomer.

Insulators: high tension porcelain, stainless steel hardware.

Through Current Withstand: tested to short circuit withstand current up to 63kA. Alternative testing available.

Voltage Withstand - Cross Bonding Boxes: Insulation is $\geq 60\text{kV}$ impulse phase-to-phase and $\geq 30\text{kV}$ impulse phase-to-earth. For link boxes fitted with SVL arresters, refer to technical data sheet for more information.

Voltage Withstand - Solid Earthing Link Boxes: 25kVdc phase-to-phase and phase-to-earth.

Contact Resistance: The link box terminal to the link and to the cable termination are $\leq 5\mu\Omega$

Ordering Information

Select the required design configuration (use the selection table for the part number). When requesting a quotation please include:

- Pit or structure mounted
- Cable size of bonding and earth cables
- If cross bonding or SVL earthing boxes
- Any special requirements or modifications which you may require

Insulect Australia

p: 1300 446 565

e: sales@insulect.com

w: insulect.com

Link Box Code Example

L

C

6

S

-

B

Modification Code
(when applicable)

Type of mounting
P = pit mounting
S = structure mounting
F = Fibreglass Construction

Number of bonding cables
1 = one bonding cable entering link box (1Ø)
3 = three bonding cables entering link box (3Ø)
6 = six bonding cables entering link box (2 x 3Ø)

Bonding cable type
S = Single core bonding cable
C = Concentric bonding cable

Application
B = Cross bonding link boxes
E = Direct earthing link boxes
L = SVL earthing link box
T = Combined direct and SVL earthing link box



DISCLAIMER: The information in this document is believed to be correct at the time of publication. The user is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. No reliance may be placed on any such information or data without first contacting Insulect Australia to clarify individual user requirements.

insulect
VERSATILITY VIA COLLABORATION