

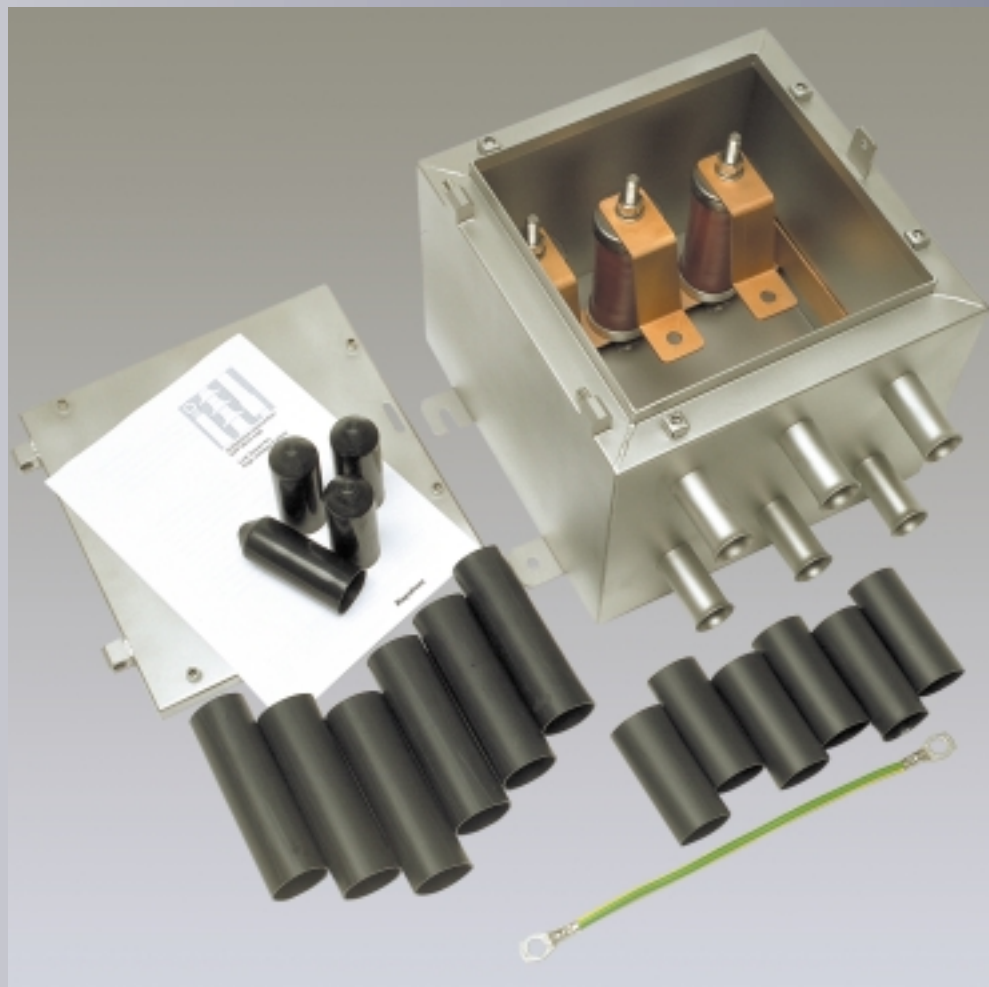
LINK BOXES Cross bonding and sectionalisation for high-voltage cable systems

Applications

- Direct grounding
- Single point bonding
- Cross bonding
- Cross bonding and transposition
- Sheath voltage limiters (SVL)

Features

- Compact design
- Stainless steel
- Hermetically sealed
- 1-phase and 3-phase boxes
- Sheath voltage limiters (SVL)



LINK BOXES

Cross bonding and sectionalisation for high-voltage cable systems

Link boxes and sheath voltage limiters

Link boxes are used with cable joints and terminations to provide easy access to shield breaks for test purposes and to limit voltage build-up on the sheath. Lightning, fault currents and switching operations can cause overvoltages on the cable sheath. The link box optimizes loss management in the cable shield on cables grounded both sides.

Mechanical design

- Made of stainless steel
- Compact design
- 1-phase and 3-phase link boxes
- Hermetically sealed
 - Resists water pressure up to 1 bar (20 psi)
 - Lugs and bonding cables are heatshrink sealed inside and outside
- Suitable for different applications
 - Single point bonding
 - Cross bonding
 - Direct grounding
 - Grounding through SVL
 - Combined direct and SVL grounding
 - Cross bonding and transposition

Electrical design

- Grounding box
- Link box
 - ZnO sheath voltage limiter
 - 3 kV and 6 kV protection levels
 - Same outer dimensions for both levels

Application

- Can be installed in pits or vaults and on structures or poles
- Use with single core or concentric bonding lead
- Cross section up to 120 mm² *)

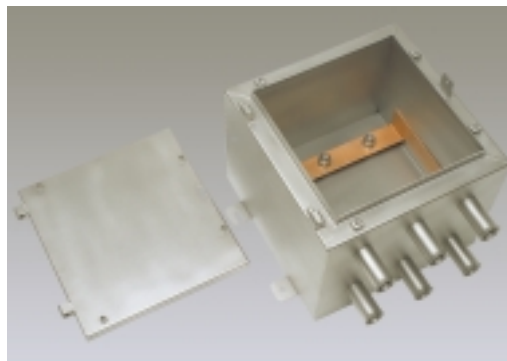
Type tests

- Tested to ANSI/IEEE Std 575-1988
IEEE – Guide for the application of sheath-bonding methods for single conductor cables and the calculation of induced voltages and currents in cable sheaths
- CIGRE/ELECTRA recommendations for cross bonding

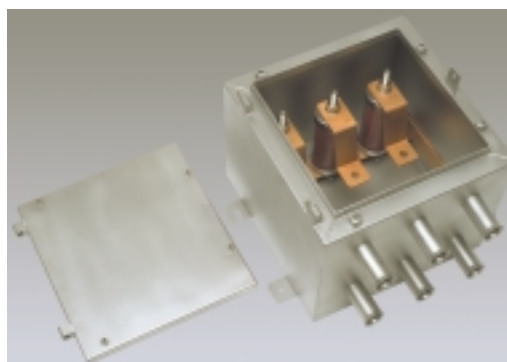
*) Larger cable cross sections on request



Link box installed with cross bonding cables



Grounding box



Link box with sheath voltage limiters (SVL)