

# Substation Earthing

## Line End Clamps

P&B Weir Electrical is a UK owned and based company providing leading technology electrical system solutions to Industrial and Utility customers worldwide.

The range of substation portable earthing equipment is suitable for temporary earthing within the range of conductors 66kV to 400kV.

The P & B Weir substation portable earthing equipment range is designed to meet ENA technical specification 41/21. This includes the Line End Clamp which is precision manufactured from a robust aluminium casting with stainless steel fittings.

All types, whether sprung loaded or not should be applied by means of an operating socket attached to an insulated operating pole.

The design of all line end clamps is such that once hooked over the bus bar they become self-supporting whilst the operating screw is tightened or loosened.

Clamps should be inspected at regular intervals and prior to each application. All clamps should operate freely and moving parts should be lightly lubricated, springs should be protected by heavy grease and contact faces should be clean.

Please turn over for other Line End Clamp types.



### Product Benefits

- Lightweight
- Precision machined for rigidity
- High electrical resistance

### P&B Weir Electrical Products

P&B Weir Electrical design and manufacture a range of products, including the following:

- Portable Earthing Equipment for EHV sub station and overhead line applications
- Gas and oil operated 'Buchholz' transformer protection relays
- Electrical Instruments and Test Equipment

### Quality Assurance

P&B Weir Electrical maintains a high quality system in accordance with ISO 9001:2008 which is fully inspected and certified by AFNOR Ltd.



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The information below is a guide to show the range of substation line end clamps offered, also the busbar range short circuit rating and the number of leads that are required.

Clamp	Busbar range	Short circuit rating	Max. number of leads
CE22A/ESI-L1	10mm-38mm	17.5kA for 2 secs	1 lead
CE22 A+B	19mm-76mm	17.5kA for 2 secs	1 lead
CE25	35mm-75mm	38kA for 2 secs	2 leads
CE22B/ESI-L2	37mm-76mm	17.5kA for 2 secs	1 lead
CE22C/ESI-L3	60mm-90mm	17.5kA for 2 secs	1 lead
CE15	90mm	36.5kA for 2 secs	2 leads
CE27	101.6mm	17.5kA for 2 secs	2 leads
CE16/5/ESI-L4	127mm only	50kA for 3 secs	3 leads
CE16/5.5/ESI-L5	140mm only	50kA for 3 secs	3 leads
CE51	140mm-160 mm	38kA for 2 secs	2 leads
CE50	190mm-200mm	38kA for 2 secs	2 leads
CE71	220-250mm	17.5kA for 2 secs	1 lead

**Note for the CE22, CE25, CE50, CE52 and CE71 ranges:**

*For attachment the operating pole should be rotated with normal firm hand pressure until a definite resistance to further movement is experienced.*