

# Temporary Earthing for Transmission and Distribution

For overhead line, substation, pillar and link box applications



**P&B Weir Electrical manufactures technical solutions for transmission, distribution and industrial systems with 40 years' service record.**

**Distribution line earthing** for portable and temporary earthing of conductors for 11-66 kV:

- ✔ Line end clamps: aluminium with stainless steel attachments, spring loaded for quick attachment and release on conductor diameters 4-20 mm; self-supporting hook type for conductor diameters 6.3-38 mm, tested to 17.5 kA x 2 s, 25 kA x 1 s
- ✔ Lightweight aluminium earthing leads
- ✔ Four types of aluminium alloy cluster bar for interconnecting phases to clamp leads and down leads, with ratchet strap, quick release carabiner hook or crucifix-and-chain for mounting to pole or crossarm
- ✔ Crossarm clamps for up to 13 mm
- ✔ Earth end clamps for AL or CU bar up to 12.7 mm or round rod 6.4-20 mm diameter



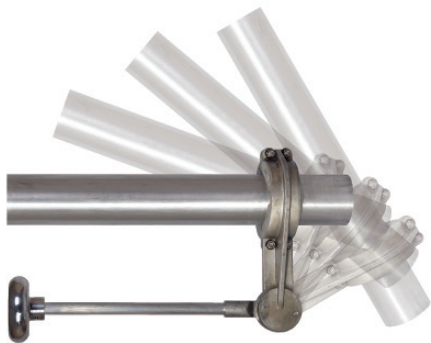
- ✔ Wide range of operating sockets & adaptors
- ✔ Operating poles
- ✔ Earth rods

**Transmission line earthing and substation earthing** for safe and secure connections to polluted or heavily oxidised aluminium or copper earth bars, stubs or stranded conductors for 66-400 kV, to UK ENA TS 41/21 and UK National Grid specification NSI 24:

- ✔ Line end clamp (for use with 1-3 leads): self-supporting hook type, also C-shape for

busbar diameters 10-250 mm, tested to 17.5 kA x 2 s to 50 kA x 3 s

- ✓ Aluminium earthing leads 150 mm<sup>2</sup> and copper 35, 70, 95 mm<sup>2</sup> to TS 41/21
- ✓ Earth clamps: robust aluminium casting with stainless steel fittings, spring loaded for application by hand to copper or aluminium, up to 25-100x6 mm, in any natural condition to TS 41/21
- ✓ Operating sockets
- ✓ Operating poles
- ✓ Suspended earthing spigot: for permanent fitting to new or existing substation bars to allow use of up to five smaller, lighter line end clamps (38 mm rather than 115-250 mm) to UK ESI requirements including 1 kN continuous load, 900 A continuous current, RIV and corona discharge, 80 kA x 1 s (200 kApk) and 40 kA x 3 s (100 kApk)



- ✓ Earth tape repair kits
- ✓ Earth bonds tested up to 31.5 kA x 1 s for use on clean or oxidised copper or aluminium tape width up to 100 mm

**LV temporary earthing kits** for 1, 3, 4, or 5-wire assemblies

- ✓ Line end clamps, fitted with PVC handles and tested to 17.5 kA x 2 s; 50 mm<sup>2</sup> leads tested to 8 kA x 1 s, clear or orange cable sheath. Compression connections with PVC strain relief sleeves, typical lead length 1.5 m, for conductor diameters 3-27 mm
- ✓ Pillar earthing kits

For more information contact your Hiko Power Engineering representative  
Hiko Power Engineering reserve the right to amend product details without notice.

AB0084 02-2018



**Link box earthing kits** for link boxes and cross bonding boxes:

- ✓ Short term temporary earthing kits: spring loaded insulated bronze clamps connected by flexible stranded copper cable for use while main earthing kit is applied: 150 A x 5 mins, 4.9 kA x 1 s, 2 kV x one minute.
- ✓ Temporary earth kits: M12 threaded aluminium, 150 A continuous, 7.8 kA x 1 s, 2 kV x one minute (also available with 1/2" BSW thread)



For details of the full range, refer to our web page, or the Hiko tools catalogue.