



T-Mac® Portable Earthing Equipment

Technical Description

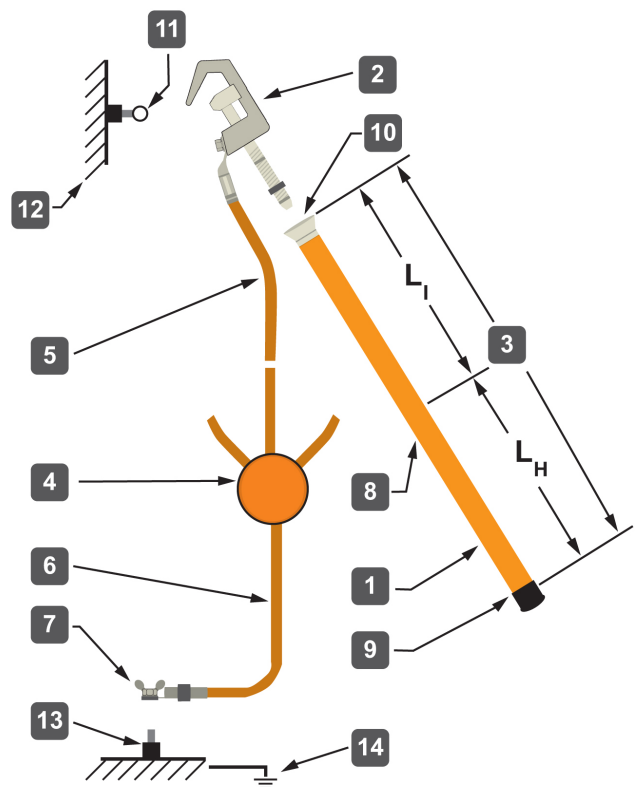
Introduction:

Portable earthing and short-circuiting equipment is designed so that it will conduct fault currents between phase conductors and to earth for sufficient time to allow the circuit protection to disconnect supply. It is NOT designed to conduct fault currents continuously, but must remain electrically continuous until the circuit breaker or fuse interrupts the fault current.

Cables subjected to alternating fault currents experience extreme electromagnetic forces, causing them to move violently during the fault. The fittings and connections must be designed to resist these mechanical forces.

Earthing & Short-Circuiting Equipment Components:

1. Insulating stick - insulating part L_i , handle L_h
2. Phase clamp
3. Overall stick length
4. Junction point
5. Short-circuiting cable
6. Earthing cable
7. Earth clamp
8. Optional hand guard
9. Base cap
10. Bayonet applicator head (for removable stick)
11. Phase connection point
12. Phase conductor
13. Earth connection point
14. Earth conductor



The connecting points to the conductors and to the earthing system must be designed to withstand the rated short-circuit and earth fault currents of the electrical installation for the required clearing time.

If required for an electrical busbar, for example, these connecting points should, wherever possible, be installed during construction of the electrical installation.

Insulating sticks must be able to support the weight of the earthing and short-circuiting cable assembly and may be either fixed to the phase clamps or removable.

T-Mac® portable earthing and short circuiting equipment complies with *IEC 61230 Live working - portable equipment for earthing or earthing and short-circuiting*.