



The importance of periodically testing portable earthing and short-circuiting equipment

REDUCED cable cross-sections of portable earthing and short-circuiting devices (EaS devices), resulting from copper corrosion and breakage of conductor strands or increased resistances in the connections, may have fatal consequences when subjected to short-circuit currents.

It is therefore critical that portable EaS devices are tested prior to each use and at regular intervals. This ensures that the installation is isolated from supply voltage while work is being carried

out, even in the case of interference voltages, atmospheric surges or accidental reconnection.

Simply hitting a switch for isolation from the supply is not enough.

- For this purpose, the following five safety rules in accordance with EN 50 110-1 must be observed:
- Disconnect completely;
- Secure against re-connection;
- Verify that the installation is dead;
- Carry out earthing and short-circuiting; and

- Provide protection against adjacent live parts.

Certified electricians know that the most essential rule of the above-mentioned five is earthing and short-circuiting, and that these guidelines can save their lives. However, this safety measure is also as safe as the device that has been used, as over a long period of time these devices may become worn out and become vulnerable.

DEHN AFRICA, the local subsidiary of Germany-based lightning and surge protection, earthing



components and safety equipment manufacturer, DEHN + SÖHNE, offers a new, improved test which provides reliable information on the condition of EaS devices, based on static and dynamic measurements of the ohmic resistance.

Tested in three steps, DEHN starts this process by making a visual inspection of an earthing and short-circuiting device for visible signs of damage. Next, a static test is performed, measuring the absolute resistance value of the device when stationary. Finally, step three is a dynamic test, which ascertains the relative change in resistance of the moving earthing and short-circuiting device. The measurement of the resistance change value allows DEHN to detect local damage, such as to conductor strands in the conductor cable.

DEHN safety equipment is manufactured and tested in line with the requirements of relevant standards. The company also provides maintenance tests on voltage detectors, switching sticks, fuse tongs, insulating sticks and earthing sticks.

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SAVE TIME WITH DURABLE CABLE and component identification

IMAGINE important machinery, power or business systems are down because of one damaged cable hidden in a thick bundle. Singling it out manually would cost a lot of time when time is critical. A simple, yet durable cable identification label at regular intervals helps to have important systems back up a lot faster.

Fast on-site label printers

Brady offers fast label printers that need only a few seconds to print the identification label you need. Built to resist dust, moisture and the occasional bump, these reliable printers help to quickly identify any cable or component with durable identification labels, available in a wide range of label types, sizes and colours.

A wide range of labels

In the hands of a professional, the right tools always get the job done faster and with greater result. That is why every Brady printer has a wide variety of labels to handle every situation. To fit a lot of information on a tiny label, insert blank flag labels in the printer. To protect a vital barcode on a cable label from abrasion, dirt or moisture, use a self-laminating label or cable sleeve material. Consider different colours to quickly identify every cable in a cable bundle. All of these identification solutions are available in the right sizes, and in easy to insert printer consumables.

Extreme durability

Cable and component labels should stick, stay attached and remain legible. Few things seem more agonising than watching the last label fall to the floor when opening an electrical cabinet during a business emergency. Brady invests heavily to continuously develop labels, inks and adhesives that really stick and remain legible, even in demanding environments.

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