

4 Safety Precautions

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4.1 General Safety Precautions

This section describes safety precautions that instruct you to select measuring and testing instruments when you install, operate, and maintain Huawei equipment.

All Safety Precautions

To ensure human safety and equipment safety, comply with all the safety precautions marked on the equipment and instructed in this document.

WARNING, CAUTION, and DANGER items in this document do not cover all the safety cautions and are only supplementary to the safety cautions.

Local Laws and Regulations

When operating a device, abide by local laws and regulations. The safety precautions instructed in the document are supplementary to the local laws and regulations.

Basic Installation Requirements

Only trained and qualified personnel are allowed to install or maintain Huawei equipment. Familiarize yourself with all safety precautions before performing any operation on the equipment.

- Only the trained and qualified personnel are permitted to install, operate, and maintain Huawei equipment.

- Only the qualified personnel are permitted to dismantle safety appliances and repair Huawei equipment.
- Only the personnel certified or authorized by Huawei are permitted to replace or change Huawei equipment or parts of Huawei equipment (including software).
- The operating personnel must immediately report the faults or errors that may cause safety problems to the person in charge.

Grounding Requirements

Equipment that needs to be grounded must meet the following requirements:

- When installing the equipment, ground the equipment before any operations and remove the ground cable only after you remove all the other components and cables from the equipment.
- Ensure that the ground conductor is intact.
- Do not operate the equipment in the absence of a suitably installed ground conductor.
- The equipment must be connected to the PGND permanently. Before operating the equipment, check the electrical connections of the equipment and ensure that the equipment is properly grounded.

Personal Safety

- Do not operate the equipment and cables in a thunderstorm.
- To avoid electric shocks, do not connect safety extra-low voltage (SELV) circuits to telecommunication network voltage (TNV) circuits.
- Invisible laser beams will cause eye damage. Do not look into bores of optical modules or connectors of optical fibers without eye protection.
- Before performing any operation on the equipment, wear ESD clothing and ESD gloves or an ESD wrist strap. Remove conductive objects like jewelry and watches to avoid electric shock or burn.
- In case of fire, immediately leave the building or equipment deployment site and press the fire alarm button or call the fire department. Never enter the building on fire again in any situation.

Equipment Safety

- Before any operation, install the equipment firmly on the ground or other rigid objects, such as on a wall or in a rack.
- When the system is working, ensure that the ventilation hole is not blocked.
- When installing panels, use necessary tools to fasten the screws.
- After equipment installation is complete, clean up the packing materials.

4.2 Electrical Safety Precautions

This section describes safety precautions for high voltage, thunderstorms, high leakage current, power cables, and fuses.

High Voltage

DANGER

- Direct contact with a high-voltage power source or indirect contact through damp objects can be fatal.
 - Misoperations on high-voltage facilities may result in fire, electric shock, or other accidents.
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High Leakage Current

CAUTION

To protect personal and equipment safety, ground the equipment before powering it on.

If a high leakage current mark is labeled near the power connector of the equipment, you must connect the PGND terminal on the shell to the ground before connecting the equipment to an AC input power supply. This is to prevent the electric shock caused by leakage current of the equipment.

Power Cable

DANGER

Never install or remove the equipment or power cables while the power is on. The electric arc or spark generated between a power cable and conductor may cause fire or eye damage.

- Before installing or removing power cables, you must power off the equipment.
- Before connecting a power cable, verify that the label on the power cable is correct.

Fuses

CAUTION

If the fuse on the equipment is blown, replace the fuse with a fuse of the same type and specifications to ensure safe operation of the equipment.

4.3 Working at Heights

This section describes safety precautions you need to take when working at heights.



CAUTION

When working at heights, prevent objects from falling down.

The requirements for working at heights are as follows:

- The personnel who work at heights must be trained.
- Carry and handle the operating machines and tools with caution to prevent them from falling down.