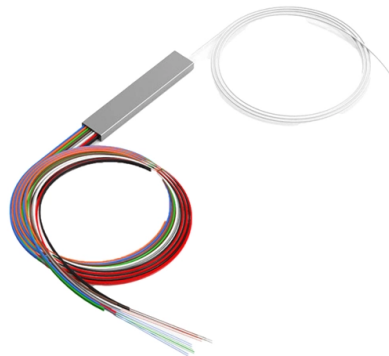


Factory Inspection Categories for Distribution Boxes



AI Overview

Distribution box inspections are categorized into critical, major, and minor defects, with sampling guided by AQL standards and both general and special inspection levels.

Key Inspection Categories

- 1. Critical Defects** These are defects that could result in hazardous or unsafe conditions for users, maintenance personnel, or anyone relying on the product. Examples include improper grounding, poor weld penetration that allows moisture ingress, or missing surge protection components. Critical defects have an AQL of 0.0%, meaning no defective units are acceptable in the inspected sample.
- 2. Major Defects** Major defects are likely to cause functional failure or significantly reduce the usability of the distribution box. Examples include misaligned terminals, incorrect assembly, or missing anti-corrosive coatings. The AQL for major defects is typically 0.4%, allowing very few defective units in a batch.
- 3. Minor Defects** Minor defects do not materially affect the usability or safety of the product but may impact aesthetics or minor functionality. Examples include slight scratches, cosmetic paint imperfections, or minor labeling errors. The AQL for minor defects is usually 1.5%, permitting a small number of defects in the sample.

Inspection Levels and Sampling

Inspections are conducted using general and special inspection levels:

- General Inspection (GI-GII):** Used for routine checks with larger sample sizes to represent the lot.
- Special Inspection (S1-S4):** Smaller sample sizes with S4 being the most rigorous, ideal for packaging and distribution boxes where quality is critical. Samples should be randomly selected from different positions in the lot (top, middle, bottom) to ensure a representative inspection.

Additional Inspection Considerations

- Weld and Structural Integrity:** Ultrasonic or visual checks for weld penetration and enclosure strength.
- Grounding Continuity:** Multimeter tests to verif...

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