IEC 60335-1 Figure 7 Test Finger Nail

Product Datasheet | Appliance Safety Probe for Non-Detachable Parts Testing

The IEC 60335-1 Figure 7 Test Finger Nail is used for household and similar electrical appliance safety testing. It helps check whether covers, joints, snap-fit parts and other non-detachable protective components remain secured when specified mechanical force is applied.

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Key Information

Applicable Standard IEC 60335-1 Figure 7	**Product Type** Test Finger Nail / Test Fingernail Probe
Test Object Non-detachable parts, covers, guards, snap-fit components, gaps and joints	**Main Test Purpose** Checks whether appliance parts remain secured under specified mechanical stress
Typical Application Household appliance safety testing, inspection, certification support and factory QC	**Configuration Notes** Force value, terminal connection, force gauge and documentation should be confirmed

Product Overview

Why This Test Finger Nail Is Required

The IEC 60335-1 Figure 7 Test Finger Nail is a standard-specific appliance safety test probe used to assess the security of parts that are not intended to be removed during normal use. During testing, the fingernail-shaped probe is applied to openings, gaps, edges, joints or component interfaces to determine whether a part can be loosened, displaced or removed when mechanical stress is applied.

This test is important for appliance parts that protect users from access to live parts, moving parts or other hazardous areas. If a cover, guard, snap-fit part or protective component can be opened or removed too easily, the appliance may fail to provide the required level of protection during operation, cleaning or handling.

Basic Specifications

Item	Specification
Applicable Standard	IEC 60335-1 Figure 7
Product Type	Test Finger Nail / Test Fingernail Probe
Typical Test Context	Non-detachable parts and snap-fit component security checks
Finger Diameter	Ø14 mm
Finger Length	80 mm
Applicable Force	10N, 20N, 30N, 40N, 50N, depending on the test requirement
Terminal Connection	Available, please confirm before quotation
Typical Test Position	Openings, joints, edges, gaps and component interfaces
Typical Test Object	Covers, guards, snap-fit parts, knobs, caps, access panels and protective components
Force Gauge	Optional / to be confirmed according to the required test method
Calibration Documentation	To be confirmed before quotation

Note: The final supplied configuration should be confirmed according to the required standard edition, test clause, force value, sample type and documentation requirement.

Dimensional Reference and Product Details

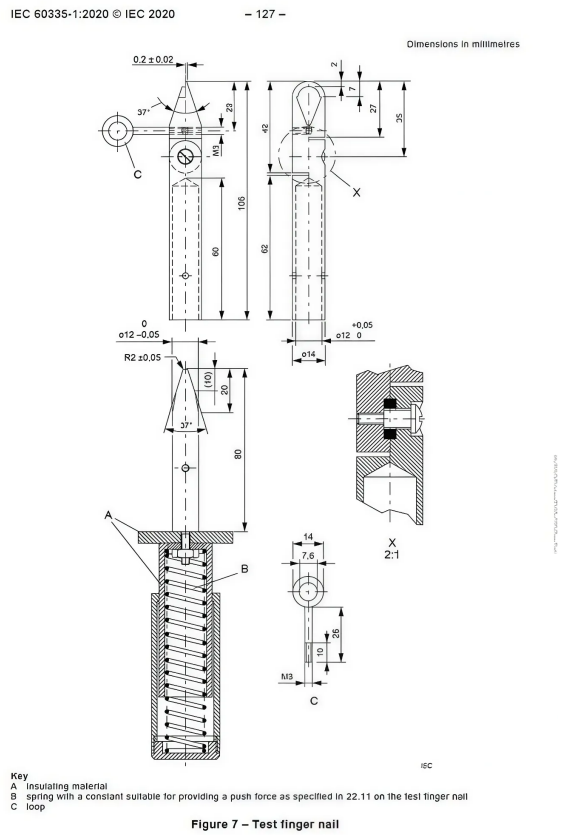

Figure 7 – Test finger nail

Figure 7 Reference

The uploaded technical drawing is included as a dimensional reference for the IEC 60335-1 Figure 7 test finger nail. Users should confirm the applicable standard edition and any internal laboratory acceptance criteria before formal testing.

Tip Detail

The fingernail-shaped end is applied to openings, gaps and component interfaces to check whether the tested part can be loosened or displaced under specified force.

Testing Principle and Use

The test finger nail simulates the action of a fingernail applied to an appliance part, joint or opening. A specified mechanical force is applied according to the relevant test requirement, and the tested part is inspected for loosening, opening, detachment or access risk.

Typical Test Process

- Identify the appliance part, gap, joint or opening to be tested.
- Apply the test finger nail to the relevant edge or accessible point.
- Apply the specified force according to the applicable test requirement.
- Observe whether the component remains secured after the test.
- Check whether hazardous live parts or moving parts become accessible.

Product Views

Technical Features

- Designed for IEC 60335-1 Figure 7 related appliance safety checks.
- Suitable for non-detachable parts, snap-fit components and protective covers.
- Finger diameter Ø14 mm and finger length 80 mm based on supplied information.
- Force values include 10N, 20N, 30N, 40N and 50N, depending on requirement.
- Terminal connection available for relevant electric shock or accessibility checks.
- Can be used with a suitable force gauge or force application method.

What to Confirm Before Quotation

- Applicable standard edition and required clause or figure.
- Required force value: 10N, 20N, 30N, 40N or 50N.
- Whether terminal connection or force gauge is required.
- Whether calibration or dimensional verification documentation is required.
- Tested appliance type, sample structure, quantity and destination country.

Typical Applications

- Household appliance safety compliance testing.
- Factory quality control before certification submission.
- Inspection of covers, guards, snap-fit parts and enclosure joints.
- R&D; verification during appliance enclosure design.

Calibration and Dimensional Verification

Users should confirm that the probe dimensions, required force value and test method match the applicable standard edition and laboratory procedure. When used with a force gauge, the force measuring device should be calibrated according to the laboratory's quality system.

Technical Inquiry and Configuration Support

Send KINGPO your standard clause, force value, appliance sample type and documentation requirement. We can help confirm whether the standard test finger nail is sufficient or whether accessories are required.

Open product page: https://www.dgkingpo.com/product/iec-60335-1-figure-7-test-finger-nail