STANDARDS TEST FIXTURE

Wire Insulation Notch Resistance Fixture

Cut-through fixture for notch resistance testing of wire and cable insulation



OVERVIEW

Cut-through fixture that measures the notch resistance of insulated wire. The specimen lies on a lower holder while a defined cutting edge is driven into the insulation by the testing machine until the edge breaks through. Nickel-plated steel construction, rated to 2 kN, for automotive wiring, hook-up wire and cable insulation per LV 112 and ASTM D3032.

KEY FEATURES

- Defined cutting edge geometry per LV 112 Fig. 5 and ASTM D3032 Fig. 18
- Lower holder positions the wire square to the cutting edge
- Nickel-plated steel body and edge for corrosion resistance
- Rated to 2 kN in compression for thick insulation layers
- Optional cutting edge version for hook-up wire per ASTM D3032 Fig. 19
- Standard clevis coupling fits common testing machine load strings

TECHNICAL SPECIFICATIONS

Max. load	2 kN
Test type	Cut-through (notch resistance), compression
Specimen	Insulated wire and cable
Cutting edge	Per LV 112 Fig. 5 / ASTM D3032 Fig. 18
Material	Steel, nickel-plated
Coupling	Female clevis, Ø 15.9 mm (5/8 in) pin
Temperature range	On request
Operation	Manual specimen loading, machine-driven edge

AVAILABLE VERSIONS

LV 112 / ASTM D3032 Fig. 18	Cut-through fixture for wire insulation, 2 kN
ASTM D3032 Fig. 19	Hook-up wire version with optional cutting edge, 2 kN
EN 50618 version	Upper fin with 0.45 mm radius edge and lower holder, 1 kN, for cable insulated on both sides

APPLICATIONS

- Automotive wiring harnesses
- Hook-up wire qualification
- Photovoltaic cable insulation
- Cable manufacturing QC

STANDARDS LV 112, ASTM D3032

Ordering & customization: Specify the standard and figure (LV 112 Fig. 5, ASTM D3032 Fig. 18 or 19, or EN 50618), wire diameter range and machine coupling.

Drawings available on request
Contact us for dimensional drawings or 3D models of this product.

Specifications are typical and may vary by configuration; confirm at time of quote. Custom versions, couplings and adapters available on request. Part ref. UGC-ST-610