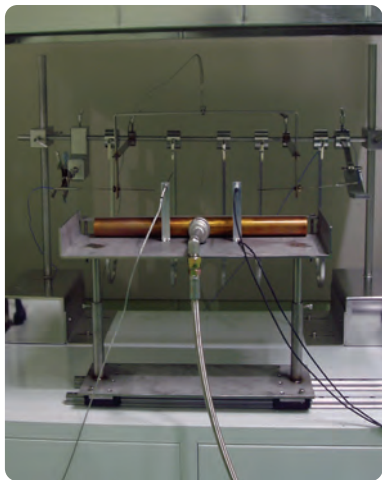


Fire Resistance Tester

일반 내화 시험기, CFR-818, IEC 60331-11 & 21, KWS 409 (5.14)



Introduction

FESTEC's IEC 60331-11 tester is used in test conditions where the basic flame temperature is at least 750°C and tests the cable exposed to the flame that needs to maintain the circuit integrity.

Standard

- IEC 60331 - Test for electric cables under fire conditions – Circuit integrity
- IEC 60331 Part 11 - Apparatus – Fire alone at a flame temperature of at least 750°C
- IEC 60331 Part 21 - Procedures and requirements – Cables of rated voltage up to and including 0.6/1kV
- KWS 409 : Wire of Fire Resistance (Fire-Resistance) - 5.14 Fire resistance test

Feature

- The burner has a Ventury Mixer structure and it's a ribbon type propane gas burner with a front length of 500mm
 - Structured with 3 rows of cross holes, Average front width of burner: 15mm, Hole diameter: 1.32mm, Distance between the center: 3.2mm.
 - Allows a polished hole row in pilot hole for flame preservation in both faces of Burner plate
 - A sample support is fixed with a clamp on the side to avoid movement and the other side allows heat spread in length.
 - The central part of the cable is approx. 300mm separated and it's supported by two metal rings. Besides the 2 metal rings there are other ground connected parts.
 - The internal diameter of sample support ring is approx. 150mm made of metal, round shape with a 10±2mm diameter.
 - The front of Burner position is located to be at least 200mm from chamber floor or at least 300mm from chamber's wall surface.
 - The horizontal axis of burner is located 70±10mm downwards from lowest part of sample cable and vertical axis of burner is located approx. 45mm from the vertical axis.
 - Two thermocouple(A,B) are horizontally installed separated 45mm left and right of burner center-line to check if ignition input is within 750+50°C.
 - Add for KWA 409(Korea Wire Shipbuilding Industry Cooperative) of Fire resistance test(options)
 - It has 2 type of mode which manual mode by control panel and auto mode by computer software.
- Before order, user can select it. It is customizing. And if order IEC 60331-11,12 and BS 6387, user can use one Slidacs system(various up to 1,000V power supplier). Cost should be down.

Test Result

- Cable test description
- Manufacturer
- Test voltage
- Cable Bending Radius
- Requirements of applied performance – Test criterion or related standards
- Flame application time
- Voltage maintenance (ex. Fuse fails, interruption of circuit breaker)
- Rupture of conductor (ex. Lamp blackout)

Specification

Model	FT-CFR-818
Size	1,600 × 850 × 1,650
Size(Table)	600 × 750 × 1,200
Power	AC 380V 3-phase, 50/60Hz, 30A
Weight	100kg
Exhaust	Min. 15 m ³ /min
Utilities	Propane Gas, Compressed Air, Hood, Duct, Dust Collector