

# IEEE Standard Test Procedure for Flame-Retardant Coatings Applied to Insulated Cables in Cable Trays

Sponsor  
**IEEE Insulated Conductors Committee  
of the  
Power Engineering Society**

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**Abstract:** A test protocol and the performance criteria to determine the flame propagation tendency of flame-retardant coated cables in a vertical cable tray are covered. This standard applies to single and multiconductor cables. The test consist of exposing coated and uncoated cable samples to a theoretical 20 kW (70 000 Btu/hr) flame ignition source for a 20 min duration. The test facility, test sample requirements, test procedure, and evaluation of results are covered.

**Keywords:** cable flame testing, cable tray, flame test facility, flame testing of flame-retardant cable coatings

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