

Certifying wire & cable materials as halogen-free

Are you required to supply halogen-free materials to customers who use your products? If so, UL is here to help.

UL offers a recognition program specifically for wire and cable materials based on the IEC 62821 series of standards shown below (halogen-free, low smoke, thermoplastic insulated and sheathed cables of rated voltages up to and including 450/750 V):

- Part 1: General requirements
- Part 2: Test methods

This program evaluates halogen content in individual combustible materials used in wire and cable construction. In addition to the damage caused by the fire itself, corrosive acid gases generated during the combustion of halogenated materials can cause significant damage to electrical and electronic equipment.

UL certifies halogen-free materials under four different product categories:

- Acid Gas, Acidity and Conductivity of Combusted Materials and Assessment of Halogens (AATJ2)
- Polymeric Materials for Use in Wire, Cable and Flexible Lighting Products (QMTT2) (Optional Rating)
- Polymeric Materials for Use in Appliance Wiring Material – Component (QMTN2) (Optional Rating)
- Plenum Cable Compounds – Component (QMTM2) (Optional Rating)

It is important to note that UL Recognized halogen-free materials are suitable for use when applied according to their Conditions of Acceptability and covered under UL's Follow-Up Service (FUS) program. The FUS program is designed to periodically check and test UL Certified products to ensure their consistent manufacture and ongoing compliance with program requirements.

Program Benefits

- The primary program benefits include:
- Publically available certification confirmation
- Online Certifications Directory
- UL IQ Database
- Elimination of repetitive lot testing
- Creates level playing field across industry
- Globally recognized standard / test methods

Individual combustible materials that have been certified as halogen-free under UL's Recognized Component program have the advantage of being published to UL's Online Certification Directory (www.ul.com/database). Cable manufacturers and designers can easily search the database to source halogen-free wire and cable materials for use in their products.

The directory is used by customers globally. The products listed are viewed by wire and cable manufacturers around the world, helping material manufacturers extend their marketing reach.

Please reach out to your UL representative via UL.com/contactwc for additional information about these service offerings.



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