



Flame-retardant cables

CAVEL® cables marked with the suffix **ZH (Zero Halogen)** are covered with a sheath classified as **M1** according to **CEI 20-11**, making them safe in case of fire.

Cable ducts crowded with cables are known to promote the rapid spread of fire. The greatest risk to human health and life comes from inhaling the toxic gases developed by thermoplastic materials during combustion.

The gases generated during combustion of chlorine-based compounds, such as PVC, result in:

- a high corrosive power, capable of damaging any electrical or mechanical device
- a high degree of toxicity to humans

In an effort to offer our clients a range of products that are safe in case of fire and can meet multiple applications, CAVEL presents the cable family with the ZH suffix. The cables are covered with a sheath that complies with the main European Standards on fire safety:

- **FLAME AND FIRE RETARDANT**
 - **EN 50265-2-1:** Test for a vertical flame propagation for a single cable (other related Standards are IEC 60332-1)
 - **EN 50266-2-4 cat. C:** Test for flame spread of bunched cables (or also IEC 60332-3-24)
- **SMOKE EMISSION AND DENSITY**
 - **EN 50268:** Measurement of smoke emitted during fire
- **EMISSION OF HALOGEN ACID GASES**
 - **EN 50267:** Measurement of the content of halogen acid gases emitted during the fire
- **RESISTANCE TO UV RAYS**
 - **ASTM D2565:** Measurement of ultraviolet (UV) resistance



Before, during and after the fire



Certifications

Our **ZH series** cables have recently been approved by a third party body, with Certificate having European validity, according to the above-mentioned Standards (see attachment). In the past, CAVEL cables have been approved by **ISPT (Istituto Italiano delle Poste e dei Telegrafi - Italian Institute of Posts and Telegraphs)**.



Tips on installation

The use of these cables is recommended for any installation in public buildings and in any situation where the presence of many people is expected (for example: hospitals, schools, hotels, banks, subways, cinemas, theaters, airports, etc.).

They are designed to cover most installation needs in terms of shielding and attenuation, both for terrestrial and satellite systems.

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