



ABOUT HALOGENS

The **CAVEL®** cables identified by the suffix **ZH (Zero Halogen)** have been provided with a sheath classified as **M1** by the **CEI 20-11 Specs.**, made safe by a thermoplastic compound in case of fire.

It is well known that ducts crowded with cables can lead to the rapid propagation of fire, and that the worst danger for health and risk to life occurs by inhaling toxic gases generated by thermoplastic materials during their combustion.

Gases generated by the combustion of chlorine based compounds, such as PVC, have:

- a high corrosion power, which is able to damage any common electronic device
- a high toxicity level for human beings.

With the aim of supplying our customers with a number of security cables, able to cover many possible applications, we offer the present range of ZH coaxials. They are provided with a sheath that fulfills the following European Standards regarding the safety in case of fire:

- **FLAME & FIRE RETARDANCY**
 - **EN 50265-2-1:** Fire propagation test on a single cable vertically installed (other related Standards are IEC 60332-1)
 - **EN 50266-2-4 cat C:** Fire propagation test on a bundle of cables (or IEC 60332-3-24)
- **SMOKE EMISSION & FUME DENSITY**
 - **EN 50268:** Measurement of fumes produced during fire
- **HALOGENIDRIC GAS EMISSION**
 - **EN 50267:** Measurement of the content in halogens emitted during fire
- **UV RESISTANCE**
 - **ASTM D2565:** Measurement of the resistance against UV ray



Before, during and after fire

CERTIFICATIONS

Our **ZH cable series** has been recently retested after the above mentioned Standards by a third party, official testing house (see the attached Certificate). In the past we passed the homologation approval of the **ISPT (Italian Senior Institute of Post and Telegraph)**.



INSTALLATION TIPS

The usage of these cables is recommended for any installation in public buildings and in any environment where there is a likely presence of many people (e.g.: hospitals, schools, hotels, banks, tube stations, cinemas, theatres, airports, etc.). They have been studied to cover most applications of the terrestrial and satellite download installation in terms of screening and attenuation.

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