

STANDARDS FIRE & FLAME SAFETY

FLAME RETARDANT in general

The PVCmb material, which is used in various cables, has excellent flame retardant properties. These properties are expressed in a LOI value (Limited Oxygen Index). This LOI stands for the amount of oxygen needed to keep a cable burning. A cable is flame retardant when the LOI, measured according to ASTM D2863, is bigger than or equal to 30%. Due to the fact that air exists for 21% of oxygen; materials with a LOI smaller than 21% will keep burning in air after ignition.

SELF-EXTINGUISHING according to NEN-EN (IEC) 60332-1-2:2005

in accordance with NEN-EN 50265-2-1 (IEC 60332-1): these cables are insulated with a material that is self-extinguishing when it is exposed to a small flame for a short period.

FLAME RETARDANT

1) MB: PVCmb with LOI >30%

2) according to NEN-EN (IEC) 60332-3-24-Cat.C

In accordance with NEN-EN (IEC) 60332-3-24-Cat.C: no vertical flame propagation.

HALOGEN FREE

- halogen free in accordance with NEN-EN 50267 (IEC 60754): the insulation and outer jacket material are free of halogens, there will be no corrosive gasses and fumes and very low smoke emission in case of fire.

- Low smoke in accordance with NEN EN (IEC) 61034-1:2006: cables with low smoke emission in case of fire.

Halogen free cables cause up to 10 times less smoke emission and are free from toxic substances, such as chlorine elements.

FIRE RESISTANT

- flame retardant: In accordance with NEN EN (IEC) 60332-3-24-cat.C: no vertical flame propagation.

- halogen free in accordance with NEN-EN 50267 (IEC 60754): the insulation and outer jacket material are free of halogens, there will be no corrosive gasses and fumes and very low smoke emission in case of fire.

- Low smoke in accordance with NEN EN (IEC) 61034-1:2006: cables with low smoke emission in case of fire.

- fire resistant in accordance with NEN-EN 50200:2006: in case of fire the cable will retain function up to 30 or 60 to 90 minutes. These cables are very suitable for application in alarm systems, emergency lighting and fire extinguishers.