



Nexans NEW AC90 cable is rated Limited Smoke and Zero Halogen (LSZH).

Our banner in the April 2011 Electrical Business magazine introduced our Limited Smoke Zero Halogen AC90 BX and ISO-BX cable to our customers and the electrical industry.

Background:

Nexans makes our AC90 BX and ISO-BX cable with cross-linked polyethylene (XLPE) insulation that contains no halogens. The cable is Zero Halogen (or “Halogen Free”).

A smoke test performed by UL to the FT4 fire test conditions verifies that all Nexans AC90 BX and ISO-BX cables meet the ST1 Limited Smoke (or “Low Smoke”) requirement.

Nexans new AC90 cable is certified by CSA to ST1.

Some manufacturers make their AC90 cables with PVC/nylon insulation.

A PVC/nylon construction cannot be halogen free and is unlikely to achieve the ST1 “limited smoke” rating.

Why “Limited Smoke Zero Halogen” is Important:

- AC90 BX and ISO-BX products are typically installed in multi-residential, commercial, institutional and some industrial buildings where large numbers of people congregate. It is desirable in high risk fire situations to employ cables of Limited Smoke and Halogen Free construction.
- **Low Smoke** cables, when burned, generate very limited smoke to avoid impaired vision thus ensuring a safer, more rapid exit from the building as well as quicker location of the fire source to extinguish the flames. Historically there has been more damage to human health, more suffering and even death caused by smoke inhalation in a fire situation than from the fire itself.
- **Zero Halogen** cables have **low toxicity** when burned and will not release toxic halogenated acid gases that harm individuals. Zero Halogen cables are **non-corrosive**. During a fire they will not release corrosive halogenated acid gases detrimental to humans, nor will they weaken building structural components such as rebar. Where ISO-BX is most often used – low corrosivity is critical to prevent damage to computer, communication and other electronic equipment. In addition, in a fire situation, LSZH AC90 cables release no corrosive gases that might impair the functioning of building fire alarm systems.

Nexans LSZH AC90 cables provide superior performance in a fire situation and a significant reduction in risk to individuals, equipment and building structural components as compared to other cable constructions. It is especially suited for use in plenums, and is vitally important in all places of assembly such as churches, schools, auditoriums, theatres, shopping malls, high rise and government buildings.

Nexans Limited Smoke Zero Halogen AC90 cables add an element of SAFETY to installations and a measure of INSURANCE to reduce the impact of specific hazards in a possible fire situation.