



## Halogen Free Cables for Building Services

With the increased demand for safety in public areas and buildings, contractors are now being advised to install materials that are non-hazardous to members of the public in case of fire. It is now understood that smoke and poisonous fumes can be a greater risk to lives than that of fire alone. The biggest issue is the full understanding of what is a true low smoke halogen free cable? To be assured you are buying a cable that will offer security during fire, it must pass 3 tests pertaining to halogen content, low smoke density and flame propagation. Lapp's range of low smoke halogen free products are stringently tested to IEC and VDE standards to ensure peace of mind when installing these cables where human life or valuable property are exposed to a high risk of fire hazards.



### ÖLFLEX® 130H/135CH

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 130 H IEC 60332.3 HALOGENFREE RoHS CE

**ÖLFLEX CLASSIC 130 H** are halogen free, flame retardant control cables for use in both fixed and flexible installations. Typical applications include public facilities, airports, railway stations, air conditioning systems, industrial machinery, plant engineering and all other areas where there is a risk of fire.

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 135 CH  
IEC 60332.3 HALOGENFREE RoHS CE

**ÖLFLEX® CLASSIC 135 CH** are halogen free, flame retardant, screened control cables for use in both fixed and flexible installations. This screened version is recommended when ever electrical interference distorts signal transmission, or when EMI (electromagnetic interference) emissions need to be suppressed.

## HALOGEN FREE vs LSF

There remains confusion in the UK market between the difference between LSF (Low Smoke and Fume) and Halogen Free LSF cables, in the case of data, signal and control cables, are made from a modified version of PVC and can still give off large amounts of black smoke and hydrogen chloride gas when burned. Halogen Free cables are those that, when exposed to fire, emit no more than 0.5% hydrogen chloride. They are not the same as LSF cables.

### Common Terminology

- LSOH** Low Smoke Zero Halogen  
Conform to low smoke propagation & smoke density, as well as Halogen Free standards
- LSHF** Low Smoke Halogen Free  
Conform to low smoke propagation & smoke density, as well as Halogen Free standards
- HF** Halogen Free  
Conforms to Halogen Free Standards
- ZH** Zero Halogen