

ECCOH™ 5702 Low CoF LSFOH Solutions

Simplified Installation of Optical Fiber Cable

PRODUCT DESCRIPTION

ECCOH™5702 is a highly flame retardant non-halogenated sheathing compound designed to facilitate the installation of optical fiber cable in conduit. This material was formulated to exhibit a very low coefficient of friction (CoF), which improves the sliding properties of cable manufactured from it in comparison with standard LSFOH (low smoke and fume, non-halogen) solutions.

VALUE SOLUTION

PolyOne's ECCOH™ line of highly flame retardant non-halogenated compounds offer significant value in many types of W&C applications. The value extends from properties such as:

- Highly flame retardant — help to prevent a fire, or limit the damage if one starts
- Non-halogenated — in the case of a fire, these material do not release emissions which could damage equipment and buildings, and harm people
- Low smoke — in the event of fire, people can find escape routes and fire fighters can quickly find the source of the fire
- Low toxicity — in the event of a fire, people are not overcome by toxic fumes

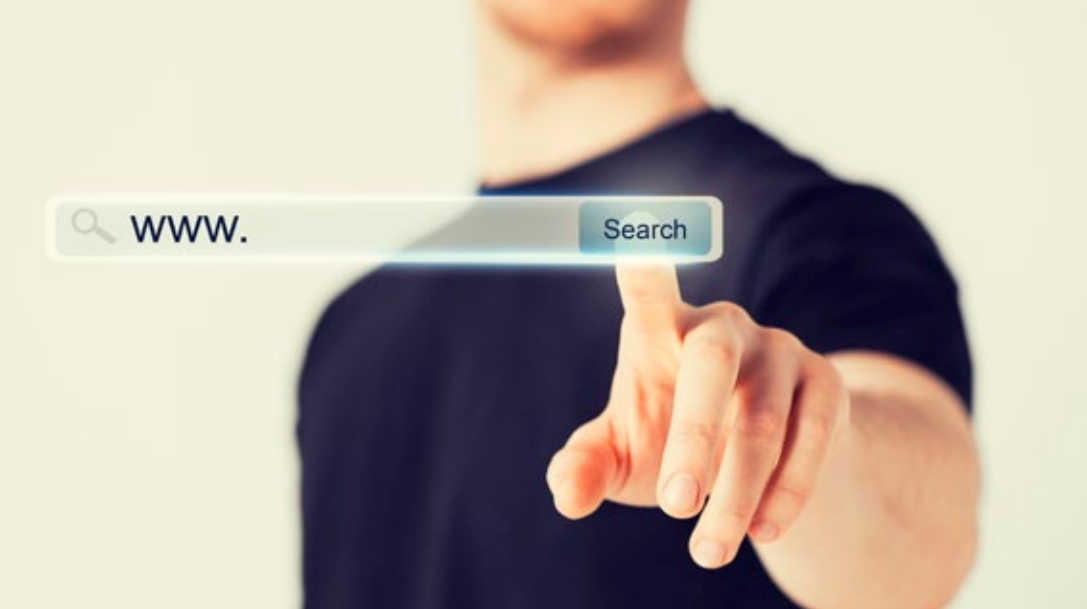
- Low dripping — no flaming droplets which can further propagate the fire and cause injury to people
- Low emission of corrosive gases when burned — avoids potential damage to electrical components and equipment, and improves human safety

KEY CHARACTERISTICS

The primary features and benefits of ECCOH™5702 are:

- High flame retardancy with low smoke, toxicity & corrosivity
- Low coefficient of friction, with permanent effect
- Good surface smoothness
- Easy to process - low melt viscosity
- Suitable for thin wall applications
- Good mechanical strength & low shrinkage





TARGET MARKET AND APPLICATIONS

Optical fiber cable and other cable requiring a very low CoF and benefitting from the low smoke and fume, non-halogen nature of these materials.

TECHNOLOGY

The coefficient of friction of cable manufactured with ECCOH™ 5702 specialty solutions can be up to 75% lower than that of cable made using standard LSFOH compounds.* This feature allows good sliding of an optical fiber cable into conduit, particularly in congested conduit, and so eases installation. The low CoF can be a critical need when rapid installation is required, when installing cable over long distances, or when duct design is complex.

For external applications, the ECCOH™ 5702 solution can be UV stabilized. PolyOne can support customers with specific accelerated photo-degradation testing such as use of a SEPAP chamber for the French market.

*Tests conducted by PolyOne

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