INNOVATIVE SOLUTIONS
For Eco-Conscious Fire Safety in Modern Cable Design

MANAGE RISK
Government regulations and building standards increasingly specify the use of halogen-free flame retardant materials for wires and cables (W&C). In addition, many markets demand that low smoke and fume, non-toxic (LSFOH) solutions be chosen to help prevent loss of life and destruction of property. ECCOH™ specialty compounds from PolyOne can help manufacturers meet the demands they face for improved safety in their applications.

SOLUTIONS FOR YOUR MARKETS
ECCOH solutions are formulated for use in applications installed where safety from flame and fumes is especially critical, such as:
• Buildings – Airports, railway stations, stadiums, office buildings, hospitals, schools, and any buildings where many people are found
• Transport – Railways, underground transport, ships, and tunnels
• Other Structures – Underground mines, oil platforms and other offshore installations, energy plants

ACCELERATING SPEED TO MARKET
Globally available, the ECCOH range of highly flame retardant non-halogenated solutions are supported by PolyOne Innovation Centers and experts to rapidly provide customers with the formulations and application development support they need to launch successful projects.

TARGETED PRODUCT PERFORMANCE
• Highly flame retardant – help to prevent a fire, or limit the damage if one starts
• Low smoke and toxicity – in the event of a fire, people can find escape routes and not be overcome by toxic fumes
• Low dripping – no flaming droplets which might further propagate a fire or cause injury
• Low emission of corrosive gases when burned – limits potential damage to equipment and improves human safety

ECCOH™ SPECIALTY SOLUTIONS FOR:
W&C applications
• Used for both sheathing and insulation
• Solutions for thermoplastics and thermosets
• Technologies for thermosets
• Many grades are cross-linkable
Pipe & Fitting Compounds (ECCOH™ PF)
• Extruded & injection molded applications
• Applications include coating flexible metal conduit, smooth & corrugated conduit, mini-ducts for optical fibers
KEY MARKETS AND END-USE APPLICATIONS

- Alarm, security and life safety
- Automotive
- Building & construction
- Data & telecommunications
- Energy & power
- Optical fiber cables
- Marine — shipboard cables
- Military & defense
- Oil, gas and petrochemical
- Railway-infrastructure
- Rolling stock cables
- Renewable energy — photovoltaic cables
- Nuclear power

HELPING CUSTOMERS SUCCEED IN CHALLENGING MARKETS

Optical Fiber

- High flame retardancy with low smoke, toxicity & corrosivity
- Good mechanical strength & low shrinkage for enhanced transmission of information
- Chemical and oil resistance for harsh environment
- Low friction and strip-ability for easier installation

Building & Construction

- High flame retardancy with low smoke, toxicity & corrosivity, low heat release
- Helps to meet stringent fire regulations in building & construction applications
- Mechanical performance for various environment

Maritime & Offshore; OPG

- High flame retardancy with low smoke, toxicity & corrosivity
- Help to meet specifications: NEK606, IEC 60092, BS6883, IEC 61892
- High performance in harsh environmental conditions including heat, cold, saltwater, “mud”, and oil
- Solutions for telecommunications, power control, and instrumentation

Railways and Rolling Stock

- Help to meet stringent fire standards such as EN 45545
- Excellent oil resistance
- Suitable across a wide range of operating temperatures
- Solutions for rolling stock, infrastructure, fire alarm cables, as well as electrical conduits & clamps.