

# WHITE PAPER:

## Flame Resistant Rating

Conduit flame resistance is misunderstood. Flame resistance is not a fire rating or proof that conduit will not burn.

ANAMET Electrical UL listed and CSA approved flexible, electrical conduit meets or exceeds Underwriters' Laboratories standards UL 360, UL 1660 or UL 94V-1 and CSA FT1 standard requiring conduit to go out (self-extinguish) soon after exposure to open flame.

The objective is to protect people and property from fire and smoke.

European, Chinese, American, Canadian and other national standards vary, but all require conduit material to stop burning when flame is removed. This is an improvement over flammable materials formerly used to coat electrical conduit, such as tar, rubber, plastic, paper and cotton fabric.

### Smoke or Fumes

Even if conduit may not easily burn, smoke or fumes from flame can be dangerous. To reduce or prevent unhealthy gas release, tested and approved PVC varieties and Halogen free silicone, polyurethane, polyethylene and other polymers are used to coat conduit.

- PVC formulations used on our UL listed Type UA, SS-UA, FGUA, CNP, NMUA, ASUA, CW, HTUA and SS-HTUA are known to generate chlorine gas smoke if they burn, even though the material self-extinguishes quickly.
- Our Halogen free formulations cannot generate chlorine or other toxic gases if they burn. They also self-extinguish quickly.

### Continuing Research

Material research continues to create options for flame resistant, flexible and durable electrical conduit. When a manufacturer creates new material, independent testing must prove the material protects people from fire and smoke at least as well as material already approved for safe use.

As technological development expands material options, safety standards improve testing and approval for new materials. ANAMET Electrical participates in international standards development, supporting development of new conduit that meets and exceeds customer needs.

Visit [www.anacondasealtite.com](http://www.anacondasealtite.com) for options available

- UL listed conduit types UA, SS-UA, CW, ASUA, UVUA, HTUA, SS-HTUA, FGUA, ZHUA, SS-ZHUA, NMUA and CNP
- Halogen free conduit types ZHUA, SS-ZHUA, HCX, XTHF, HFL, HFSS and SHIELDTITE® Z1
- Halogen Free FIRETECH™ fire protection materials



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