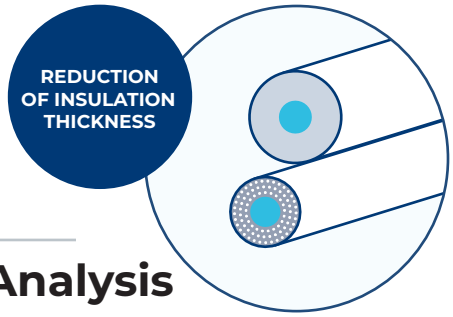
FluoroFoam®

Foamable Insulation For Plenum Low-Voltage Cable Applications



Economics

For plenum control cable applications from 300 volts to 600 volts (such as CL2P, CL3P, etc.), FluoroFoam® blend represents an opportunity for significant cost savings and process flexibility. Looking at an example construction (18awg with 71pF Capacitance Target) FluoroFoam provides significant weight savings due to the reduction of insulation thickness and the introduction of foam. The calculations below assume that FEP resin cost is $9 USD/lb.

SOLID (0.0128" insulation)

1.987 lbs/1000ft *per conductor* =
$17.89 USD/1000ft per conductor

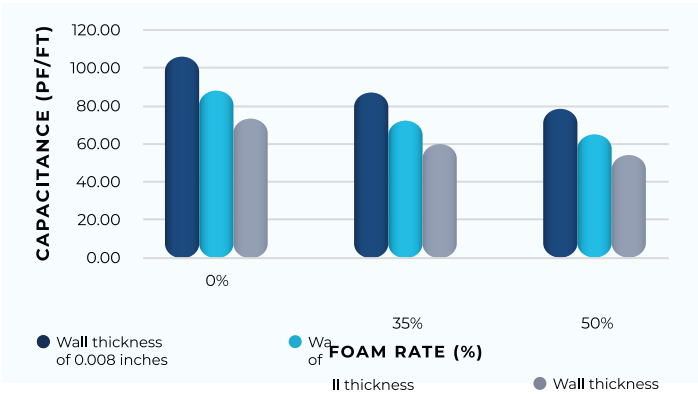
FOAMED (0.010" Insulation with 35% foam)

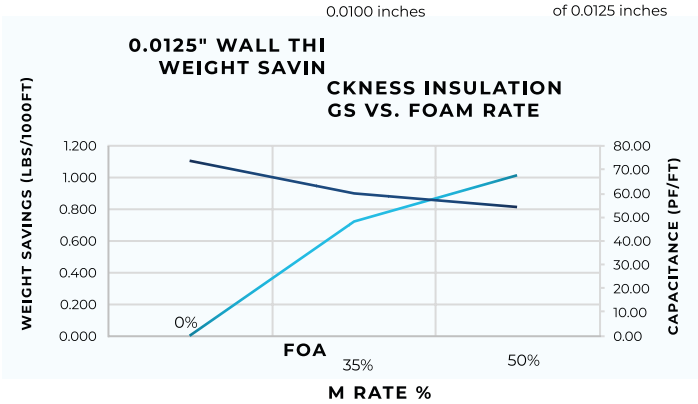
0.956 lbs/1000ft per conductor=
$11.23 USD/1000ft per conductor

Over a 1,000,000ft 2-conductor cable production run the introduction of **FluoroFoam represents savings in excess of**

$13,300 USD.

Technical Analysis





As the above graphs demonstrate, there is a direct correlation between the capacitance of a cable as well as the insulation thickness/weight and the percentage foam rate. With the introduction of foam, CCG is able to provide a dielectrically superior insulation while also reducing the combustible footprint of the cable construction enabling smaller cables and reduced material consumption.

Case Study

Over the course of 1 year CCG studied the impacts of FluoroFoam with an existing customer to determine the positive impacts of implementing this material in their Control Cable Application.

- **Increased Processing Speeds by 50% with CCG's technical service assistance**
- **Reduced Insulation Resin consumption by 50% and Jacket Resin consumption by 20%**

CABLE COMPONENTS GROUP

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