



Nylon Plastic Cable Clamps

Technical Specifications

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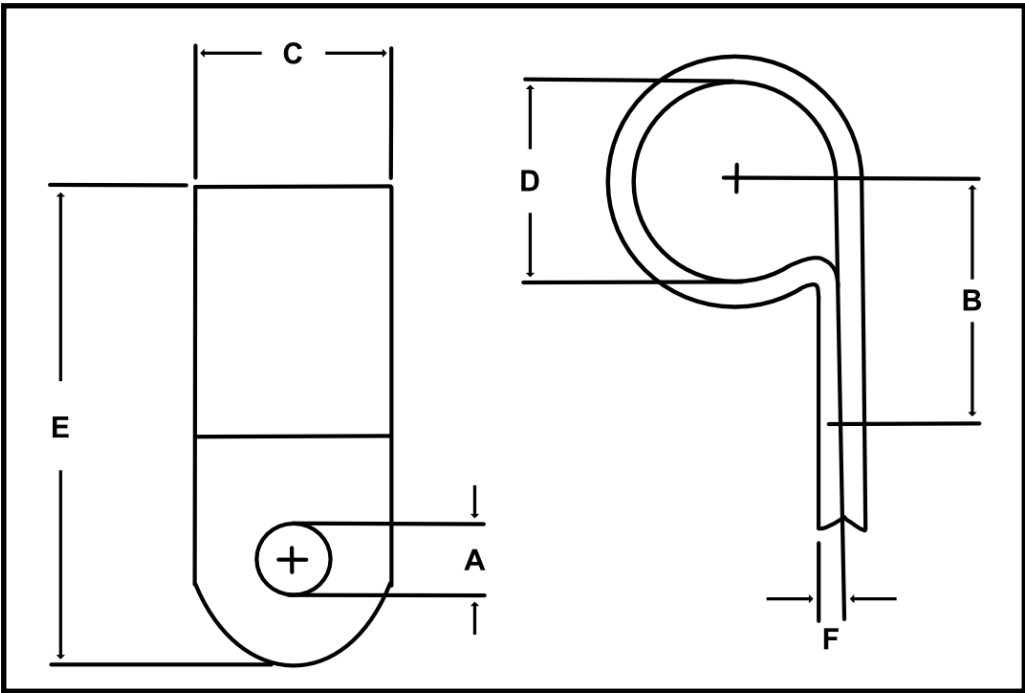
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Overview

Kable Kontrol Nylon Plastic Cable Clamps are manufactured using a specialized Nylon 6-6 material, making them effective for surface mounting. This product has a working temperature range of -40°F to 185°F . Additionally, it is notable for its mechanical strength, weather resistance, and good resistance to bases, oils, greases, oil derivatives, and chloride solvents.

Kable Kontrol Nylon Plastic Cable Clamps hold UV stability equivalent to 12 years of weather exposure in their black color ONLY.

Country of Origin: Taiwan



SKU	A	B	C	D	E	F
CCUC1-025	0.18	0.39	0.39	0.25	0.787	0.055
CCUC3-050	0.196	0.598	0.47	0.5	1.22	0.059
CCUC5-075	0.18	0.716	0.46	0.75	1.37	0.059
CCUC6-100	0.18	0.866	0.47	1	1.69	0.07
CCUC7-125	0.18	1.02	0.47	1.25	1.81	0.07
CCUC9-150	0.18	1.18	0.47	1.5	1.96	0.07

UV Resistance

Kable Kontrol Nylon Plastic Cable Clamps have a carbon black additive in their black color ONLY. This specialized additive allows for strong UV resistance, making the product ideal for both indoor and outdoor applications.

Chemical Resistance

The Nylon 6-6 construction of **Kable Kontrol Nylon Plastic Cable Clamps** offers good chemical resistance, particularly to hydrocarbons, oils, fuels, and many solvents. It performs well in contact with alkalies, though its resistance to strong acids is limited, especially at higher concentrations or temperatures. This product can also be affected by oxidizing agents and may absorb moisture, which can influence its mechanical properties over time.

Flame Resistance

Kable Kontrol Nylon Plastic Cable Clamps possess a flammability rating of UL 94 - V2, meaning it is slowly self-extinguishing but may still drip flaming particles. It is not highly flame-resistant, making it unsuitable for applications requiring high fire safety standards.

Polyamide-based materials such as this can generate moderate smoke and toxic fumes when burned, depending on the specific combustion conditions. Proper ventilation and fire precautions are recommended when processing or using the material in high-temperature environments.

Effects of Heat Aging

Kable Kontrol Nylon Plastic Cable Clamps have good thermal stability, with a recommended continuous use at -40 – 185°F . However, prolonged heat exposure can cause oxidation, embrittlement, loss of tensile strength, increased brittleness, and discoloration. Over time, this heat aging effect weakens the material, making it less durable in high-temperature applications.

Hydrolytic Stability and Water Absorption

Kable Kontrol Nylon Plastic Cable Clamps have moderate hydrolytic stability, meaning it can degrade over time when exposed to high heat and moisture outside of their recommended range. In addition, this product has high water absorption.

Effects of Radiation

Kable Kontrol Nylon Plastic Cable Clamps have moderate resistance to radiation (such as gamma and X-rays), especially in the BLACK color. It can withstand low to moderate doses of ionizing radiation without significant degradation. However, prolonged or high-dose exposure may cause embrittlement, discoloration, and a reduction in mechanical properties over time.

Loss of Weight with Aging

Kable Kontrol Nylon Plastic Cable Clamps experiences minimal weight loss under normal conditions. When subject to elevated temperatures, UV light, excess moisture or chemicals, polymer chains can break down leading to the embrittlement of the polymer chains.

UL Standards & Engagement

UL Standards & Engagement UL standard is a published set of best practices for manufacturing and testing the safety, security, and sustainability of a product or system, developed and voted on by experts across industries and interests.

Kable Kontrol UV Black Cable Ties Possess the following UL certifications:

- **Flammability Rating: UL 94-V2**—Self-extinguishing within 30 seconds after being exposed to a flame for 10 seconds and may not ignite a cotton substrate if it drips molten particles during the test. This rating indicates moderate flammability resistance.

