

Raw Material Procurement

CONNECT AND PROTECT

MATERIAL QUALITY

To help ensure your projects are manufactured with the highest quality using the nVent HOFFMAN PWA6000 machine, it is important to use the right raw materials. Reliable production of superior quality products requires high-quality raw materials and adherence to best practices.

Our PWA6000 machines have been tested using cables and wires (PVC, halogen-free, and multinorm) from two of the industry's leading suppliers, Lapp and Helukabel. These materials are approved and recommended for use with the PWA6000.

Other cable and wire brands and types have not been tested with the PWA6000. If you are interested in having a specific brand or type tested, please reach out to your nVent HOFFMAN representative.

CABLE WITH CROSS SECTION 6 MM² (AWG10)

The PWA6000 machine can process cables with a cross section of 6 mm² (AWG10), but it has transport sections with an inner diameter of 5 mm. Therefore, the outer diameter of the cable should not exceed 5.0 mm at any point.

Currently, the only approved raw material for the cross section 6 mm² (AWG10) are Lapp PVC and Multinorm SC2.1 grades. The use of other raw materials from other manufacturers cannot be guaranteed.

CABLE EMBOSSED VS. PRINTING

Proper cable labeling is a key factor for the safety of electrical systems and control cabinets. Cable manufacturers offer various cable marking methods to meet specific cable and application needs. In addition to common wire marking solutions like printing, cables and wires can be embossed. Embossing offers the advantage of being able to apply ink-jet printing independently, which keeps the markings clear and easy to read. As a result, ink-jet marking is now recommended and becoming increasingly popular in the market.





WHY CABLE PACKAGING MATTERS?

If not aligned correctly, cable packaging can slow down a project, increase costs and potentially damage the cable. Therefore, the PWA6000 was tested with different cable containers to assess their impact on wire production process efficiency and machine productivity.

The PWA6000 machine features an internal automated wire feeding system with 12 spools for different wires (4 external and 8 internal) that reduces switching time. An external accessory is available for storing additional wires, allowing the machine to be fed without using the internal spools and saving switching time.

Given the leading-edge capabilities of the PWA6000 machine, it is recommended to use cable drums or cable boxes when producing high quantities of wires with the same or similar features. This approach simplifies and accelerates the process by reducing spool switching time.

For smaller production quantities (such as, approximately 10 m per project or 50 m per week), cable coils or spools can also be used with the PWA6000 machine. However, the rapid consumption of these feeders and the risk of knots and loops can impact the wire production process, making it less efficient and requiring more manual intervention.



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