

For use at -40 °C

Hradil (Germany) has launched a CAN cable designed for applications such as stacker cranes. The products are specified for temperatures from -40 °C to +80 °C.

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CAN cable for moving outdoor applications (Photo: Hradil)

HRADIL HAS DEVELOPED A LOW-TEMPERATURE resistant and reeling CAN networks with a small outside diameter. The cable has been designed for minimal bending radius and high data throughput. This makes it suitable for high-bay deep-freeze facilities, i.e. for controlling stacker cranes with integrated video cameras. The CAN cable permits the noise-free transmission of image data and control signals to the goods logistics department static-free, even at low temperatures and under mechanical stress. This means that status data on the location of goods and sequences can be transmitted to the warehouse management system via image processing. Automated processes enable the stacker crane to respond to the status and position the goods. Hans Haller, Hradil's press officer, explained: "We have designed the CAN cable to be reeling, as well as suitable for industrial applications under difficult conditions. This opens up completely new areas of application for CAN systems, even at temperatures below freezing."

The cable is distinguished by four features: reduced outside diameter, resistance to cold, drum reeling and characteristic impedance of 120 Ω. In addition to the CAN core, the cable has further control wires. It contains stress-free twisted cores, banding and shielding, some made from special PTFE film, and an open aramid braided sleeve with strain relief. The outer sheath is made of halogen-free TPE-U. The cable's tensile strength is up to 2000 N. It is flame retardant in accordance with ICE 60332-1 and conforms with EU Directive 2011/65/EC (RoHSII). It is oil- and fuel-resistant, as well as resistant against cooling agents and lubricants. Furthermore, it is ozone and UV-resistant, which makes it suitable for outdoor-applications.