

News Release

**From: Belden
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Belden introduces new DeviceBus cables for DeviceNet applications

Two new cables with TPE jackets have been added by Belden, a leading supplier of signal transmission solutions, to its line of DeviceBus cables used for DeviceNet applications. In addition, red jackets have been introduced for some cables to designate DeviceNet Safety.

DeviceNet is an ODVA device-level communication protocol for industrial automation. The network provides an open, low cost system link between industrial devices such as sensors and actuators and higher level devices such as programmable logic controllers and PCs.

The benefits of DeviceNet

- The cable eliminates the expense associated with hardwiring and traditional ‘homeruns’ cabling practices
- It gives users the ability to use device-level diagnostics
- It allows users to configure many products in real time, including replacing devices on a live network
- It offers a boost in overall system performance because it provides both event-based and time-based options.

- Additional flexibility is offered because of its ability to work with devices from multiple vendors.
- New red jacket cables designate DeviceNet Safety. This allows users to place safety devices on the same network as their standard controls.

The network can support up to 64 nodes with variable end-to-end distance based on network speed. The topology is a trunkline linear bus. A unique feature is the ability to add a power tap at any point allowing for redundant power supplies. DeviceNet typically uses data and power conductors from the same cable. The cables are typically designated thick, thin, mid or flat and can be used for either trunk or drop applications, depending on the system speed and overall end-to-end distance.

New cables

Erik Holzwilder, Belden's Market Manager Industrial EMEA, says, 'Belden is pleased to be extending the DeviceBus range. All the cables are specially designed to provide flexible performance at low temperatures, together with excellent resistance to oils, solvents and abrasion in harsh environments.'

Most DeviceBus cables are heavy duty, sunlight and oil-resistant PVC-jacketed constructions. The two new products (134F and 136F) have TPE jackets. In the paired cables, the power pairs have PVC or PVC/nylon insulation while the data pairs have either FEP or F-R polypropylene insulation. Two Classes are offered for proximity use with either 300 or 600 volt cables.

The new cables retain the same features and benefits of DeviceBus cables:

- Fully compliant with ODVA specifications
- TC-ER and PLTC-ER ratings are applicable on certain cables
- Data and power functionality in one cable
- Reduced cable and installation costs
- Round versions are particularly noise resistant
- Easier connectivity (using flat versions)
- Fully compliant with ROHS Directive

About Belden

Belden is a leader in the design, manufacture, and marketing of signal transmission products for data networking and a wide range of specialty electronics markets including entertainment, industrial, security and aerospace applications. Belden has manufacturing facilities in North America and Europe as well as distribution centers in the U.S., Canada, Singapore, Australia and the Netherlands. A majority of Belden's manufacturing, engineering and support functions are registered to the International Organization for Standardization.

For more information about Belden, please visit www.belden-emea.com

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