

# Would You Place a Penguin in the Desert?

Then why put ordinary cable in your production hot zones?

Industrial environments are harsh. Temperatures vary from extreme heat to extreme cold. As temperatures move up and down the thermometer, can your Ethernet network keep working?

-  Don't risk your operations with "ordinary"— be certain with Belden
-  Choose the best industrial-grade, ruggedized cable available
-  Trust the industry's broadest menu of options, with cable temperature ratings from -70°C to +150°C.

## Ethernet: #1 Industrial Platform

Late in 2017, the annual HMS Industrial Networks study declared the official crowning of Ethernet over traditional fieldbus as the platform of choice. The shift has been grounded in Ethernet's abilities for greater speed, bandwidth, flexibility and scalability. Standardized in 1983 as IEEE 802.3, Ethernet connects a number of computer-based components to form a network for the exchange of data, audio or video transmissions.

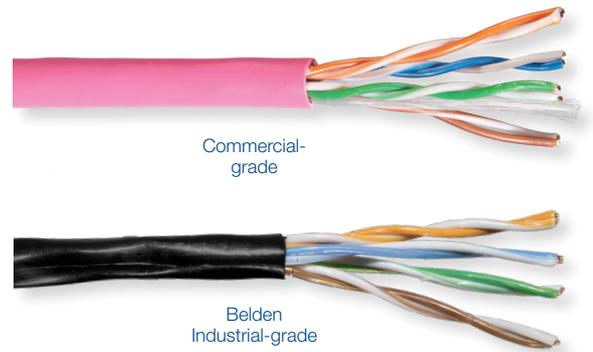


# Operating with Extreme Reliability

Extensive lab testing proves that Belden cables maintain transmission quality even in extreme temperatures. These images show an ordinary Commercial-grade cable sample and a Belden Industrial-grade cable sample after exposure to heat or cold, replicating real-world operating conditions.

While ordinary cable degrades significantly, Belden Industrial-grade cable remains strong outside and inside. Your signal quality is protected. We guarantee it for 10 years.

## PRE-EXPOSURE



## HEAT

### Heat-tested samples

Laboratory simulations of extreme high temperatures clearly show how Commercial-grade cable performs vs. Belden Industrial-grade cable.

Exposure to high ambient temperature increases attenuation with Commercial-grade cables and can cause conductor insulation to melt, making termination difficult.



## COLD

### Cold-tested samples

When tested for extreme low temperatures in a series of laboratory tests, Belden Industrial-grade cables clearly outperform Commercial-grade cables.

Commercial-grade cables become brittle when exposed to cold temperatures. Damage typically occurs during flex, mechanical shock, and/or impact.



See our complete Industrial Ethernet portfolio and learn more at [www.belden.com/would-you](http://www.belden.com/would-you)