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ILLUMINATING SCIENTIFIC INSIGHTS

HOW RELIABLE CABLE ASSEMBLIES HELP ENVIRONMENTAL SENSORS COLLECT RELIABLE DATA—EVEN THROUGH THE PLANET'S HARSHEST CONDITIONS.

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THE ENVIRONMENTAL SENSOR MARKET IS OPENING DOORS TO NEW OPPORTUNITIES

This is the year to prepare your sensing equipment for the great outdoors.



Environmental and agricultural sensors collect a bounty of information that drives important decisions in diverse industries. From pollution levels to solar monitoring, scientists and researchers rely on a delicate ballet of outdoor sensors.

A mighty yet miniaturized cable assembly, protected against the elements, means these experts have consistent access to data that powers tomorrow's discoveries.

JUST LIKE THIS TEAM OF SCIENTISTS, YOU NEED CABLE ASSEMBLIES RELIABLE ENOUGH TO SUPPORT YOUR RESEARCH

This team of scientists designs precision instrumentation that collects environmental data all across the globe. From the Arctic to the Sahara, their research-grade sensors gather insights into solar radiation, ground temperature, barometric pressure, and so much more.

In this project, the client was working on a special sensor that measures the absorption rates of solar radiation. These miniature science labs churn through millions of real-time data points. For these sensors, reliable and accurate measurements are key.

TOUGH ENOUGH TO TAKE ON THE SEVEREST CORNERS OF THE PLANET

The heat of the desert or icy tundra conditions can't deter these scientific sensors from completing their important mission.

To take on dust, snow, sand, and extreme temperature swings, this cable assembly demanded a very robust design.

The catch?

The sensor is also incredibly small, fitting in the palm of your hand.

Our team chose stainless steel for its tough corrosion-resistant construction. This highly durable shell contributes to the IP67 rating, well-protecting this connector against intense pummeling of rain and dust.

The chromium makeup of 316 stainless steel bears a thin antimicrobial film, making this design one of the strongest and longest-lasting on the market.



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EASY FIELD INSTALLATION

Scientists need to position these sensors all around the world. To make it easy to set up in the field, we went with a secure screw connection. Equipment that requires advanced expertise to install, like soldering, would drive up maintenance timelines—data downtime the client could not afford.



A FLEXIBLE WIRE

Fitting a cable assembly into a small footprint requires more than a miniaturized connector—you also need a cable that can navigate the twists and turns of the housing. We used a flexible wire to ease routing through the sensor's extremely tight size constraints.

QUICK TURNAROUND, TOP-NOTCH SUPPORT

We weren't the client's first stop for this project—but once they came to us, they turned into one of our largest OEM partners. While competitors proved slow and hard to communicate with, NorComp won the contract because of our nimbleness and willingness to take on challenging, time-sensitive projects.





CONNECTING INDUSTRY 4.0

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