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**Instrumentation Cables and Compensating Cables for Sophisticated Applications**

# Data security starts with the cable

Reliable data transmission is a must, even under the most extreme conditions. Consequently, robust and safe cables that transport instrument data to control centres are just as important in the energy sector (for example, at refineries, on drilling platforms, in open cast mines and power stations) as in the biotech, pharma and food industry. As a result, Helukabel developed new robust instrumentation cables (HELUDATA®) and compensating cables (HELUTHERM®) for sophisticated applications to ensure the continuous transmission of sensitive measurement data even under harsh conditions (see picture). The cables come in various designs and insulation materials and guarantee minimum losses, even over distances of several kilometres. The choice between conductors that are wrapped in a single or double shield, as well as cables with an overall shield, with or without wire armour, ensure that the right cable version can be found for each application. Both cables with a robust PVC jacket as well as their halogen-free flame retardant versions are certified according to European EN and American/Canadian UL standards. The halogen-free flame retardant versions can be used in areas where neither corrosive nor toxic combustion gases are tolerated. Compensating cables for the connection of thermocouples are available in diverse metal combinations. All cables are resistant to UV rays, sunlight and oil.

## Meeting Diverse Requirements

HELUDATA® EN 50288-7 cables are number coded and have an aluminium/PE foil shield and a robust flame-retardant PVC or XLPE jacket. The PLTC UL13 version, certified for the American market, is available in cross-sections from AWG 18 to 14 and with a temperature range from

-30 °C to +105 °C. The halogen-free flame retardant XLPE HELUDATA® EN 502887 FIRE RES is suitable for applications where the release of toxic gases is prohibited, and where full functionality is required in the event of a fire. The cable is fire resistant according to IEC 60331-21. All instrumentation cables are designed for a nominal voltage of 300 or 500 V and are available with the option of a steel wire armour and conductors in twisted pairs or bundles of three or four.

The compensation cables of the HELUTHERM® cable family are available in four versions, each differing in conductor material with outer sheath colours compliant with ANSI MC 96.1. There is also a PVC version with an operating temperature for the cable conductors ranging from -30 to +105 °C, as well as a halogen-free flame retardant version. All cable versions are suitable for unprotected installation in cable trays.

**Info about the pictures:**

Picture intro: All crucial data is fed back to the control room and so instrumentation cables and compensating cables must transmit signals correctly and reliably, even over long distances. (Suggestion for a lead photo (Mr. B-king /296944988– stock.adobe.com )

Picture: With their instrumentation cables and compensating cables, HELUKABEL offers four new in-stock product groups for applications in the oil & gas sector as well as in the chemical, pharma and food industry. (creator: HELUKABEL)

**Information box: About Helukabel**

The HELUKABEL® Group, headquartered in Hemmingen, Baden-Württemberg, is one of the world's leading manufacturers and suppliers of cables, wires and cable accessories. With its 57 manufacturing sites and sales locations in 36 countries, the company is regarded as a reliable partner for customers in industry and infrastructure. With an extensive range of more than 33,000 stocked items and application-specific cables, HELUKABEL offers electrical connection technology from a single source.

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