

Data Sheet 507.2

Measuring Cable Standard Duty Cable CUT2011



The hanging cable is a standard duty cable with cast-in steel wires and a smooth environmental PE outer sheet.

The cable is designed for hanging in steel silos with a max. height of 24 metres (cylindrical height) and with a max. diameter of 30 m. The SD-cable is not suitable for use in storage facilities where tensile loads are above 1000 kg.

Cables are connected to the read-out unit by cables using moisture resistant butt connectors

Specifications:

SD-Cable construction:

| | | |
|----------------------------|---|-----------------|
| Inner tube | : | 7.0mm +/- 0.2 |
| Tensile strength | : | Max 1000 kg. |
| Type of extrusion | : | Tube extrusion |
| Flexible tube (galvanized) | : | Type ISE |
| Reinforced steel wire | : | Ø11.0 +/- 0.2mm |
| Sheet LD-PE Black | : | Ø 13mm +/-0.2mm |

Sensor cable:

| | | |
|----------------------------|---|-------------------------|
| No. of wires | : | 8 pcs. |
| Max. no of sensors | : | 7 pcs. |
| Diameter "Without sensors" | : | Ø 3.5mm +/- 0.15mm |
| Sheet | : | Teflon coated |
| Retractable | : | Yes (bin must be empty) |
| Colour code | : | (See the following) |
| Orange | : | Common wire |
| Green | : | Sensor seven |
| Black | : | Sensor six |
| Blue | : | Sensor five |
| Yellow | : | Sensor four |
| White | : | Sensor three |
| Red | : | Sensor two |
| Brown | : | Sensor one |

Sensor type

| | | |
|---------------|---|-----------------|
| Sensor | : | NTC with diode |
| Nom. value | : | 3000 ohm / 25°C |
| Working range | : | -20 °C to 85 °C |

Connectors:

The system is constructed so that only butt connectors (Scotchlocks) on any suitable moist resistant connector may be used when extending the sensor cables.

Suspension

The SD-cable must be suspended either on the end of a 1" hollow tube or on a special hanger – please see Data sheet 510.1 "Suspension for SD-cables".

ATEX – Certificate

According to Cimbria's ATEX certificate for the Temperature Monitoring System, the Cimbria cables are considered as "simple apparatus". So, if the measuring cables are installed within a system with ATEX certified address board(s) from Cimbria, no further approval is to be obtained in order to comply with the ATEX regulations. ATEX certificate no. **RWTUV-3-04-ATEX-0078**

Compatible systems

The standard duty cable may only be used / installed together with the following Unitest® system:

UNITEST ®PROTECTOR

Please see the following data sheets:

Address boards & Interface;

- Data sheet no. 505.1 - Interface
- Data sheet no. 513.1 - Address Board

Readout possibilities

- Data sheet no. 514 - Protector Readout Unit
- Data sheet no. 503 – PC Software



Plenty of space for connectors and extension cable.

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