



# Measuring Cables - standard duty cable

## UNITEST

### GENERAL

Brand Cimbria  
Model Unitest - Measuring cables, standard duty cable CUT 2011

The Unitest system can be used in all types of grain storage facilities and can be installed in both new and existing installations. The temperature is constantly monitored by means of a number of sensors which are fitted in carrying cables specially designed for installation in harsh environments.

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.

### 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 a special hanger.

Please see data sheet: *Suspension for SD-cables*.

### Specification

| SD-cable construction:     |                             |
|----------------------------|-----------------------------|
| Inner tube                 | 7.0 mm +/- 0.2              |
| Tensile strength           | Max. 1 000 kg               |
| Type of extrusion          | Tube extrusion              |
| Flexible tube (galvanized) | Type ISE                    |
| Reinforced steel wire      | Ø11.0 +/- 0.2 mm            |
| Sheet LD-PE black          | Ø 13 mm +/-0.2 mm           |
| Sensor cable               |                             |
| No. of wires               | 8 pcs.                      |
| Diameter "Without sensors" | Ø 3.5 mm +/- 0.15 mm        |
| Sheet                      | Teflon coated               |
| Retractable                | Yes (bin must be empty)     |
| Colour code                | See manual                  |
| Sensor type                |                             |
| Sensor                     | NTC with diode              |
| Nom. value                 | 3 000 ohm / 25°C            |
| Working range              | -20°C to 85°C               |
| Sensor cable               |                             |
| CUT2011                    | Max. no of sensors: 7 pcs.  |
| CUT2017                    | Max. no of sensors: 12 pcs. |
| CUT2018                    | Max. no of sensors: 15 pcs. |
| ATEX data                  |                             |
| Ui: 15 VDC Li: ≈ 0 uH      |                             |
| Ii: 130 mA Ci: ≈ 0 pF      |                             |
| Pi: 1.1 W                  |                             |

### 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. DTI 16 ATEX 0050X.

### Compatible systems

The standard duty cable may only be used/installed together with the following Unitest® system: Unitest 5G.

Please see the following data sheets:

Address boards & Interface;

- Data sheet: *Interface*
- Data sheet: *Address Board*

Readout possibilities

- Data sheet: *PC Software*



Plenty of space for connectors and extension cable.