

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 510.1 "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 no. 106.02.07 - Interface
- Data sheet no. 106.02.16 - Address Board

Readout possibilities

- Data sheet no. 106.02.03 - PC Software



Plenty of space for connectors and extension cable.