



**TDS90005**

**AUTOBUS network cable 2+2 in a flexible tube**

The TELETASK AUTOBUS cable in a flexible tube of 16 Ø mm, is used to connect all the TELETASK interfaces and the central unit with each other. The interfaces are connected according to a bus topology. The AUTOBUS runs from one interface to the next interface. This AUTOBUS cable has not only fire retarding but is also 'low smoke fume' (LSF). The flex tube is also made from about 50% recycled materials.

**APPLICATION**

**Cable:**

The TELETASK LOW SMOKE AND FUME POLYVINYL-CHLORIDE (LSF) AUTOBUS cable is used to connect all the TELETASK interfaces and the central unit with each other.

**Flex Tube:**

This TDS90005 AUTOBUS cable is provided with a flexible tube for easy and fast enrolment to generate lower labour cost for the installation of the AUTOBUS cable.

**CHARACTERISTICS**

**AUTOBUS**

The TELETASK AUTOBUS is a bi-directional high speed bus. When you press a button (closing a contact), the corresponding interface immediately transmits the command (including error detection and correction information) via the AUTOBUS cable to the central unit. The central unit answers to this command with a confirmation to the transmitting interface. If this is not the case, the interface will retransmit his command. This AUTOBUS cable has not only fire retarding but is also 'low smoke fume' (LSF). The specifications of the used compound are compliant with:

- CPR: Eca
- EN 50 086-2-2
- CEI 20-11 M1
- CEI 20-22 II
- VDE 0207 Part t24, type HM2
- VDE 0250 Part 215, type HM5
- HD 21-14 S1, type TI6.
- UL94-V0
- IEC 60332-3
- IEC 60695-11-10
- IEC 332.3

**Mechanical**

Colour: blue.

Max. cable length: 1km.

The AUTOBUS cable consists of four copper conductors: 2 x 0.25 mm<sup>2</sup> (data transmission) + 2 x 1.00 mm<sup>2</sup> (power supply).

**Electrical**

High speed bus cable with speeds up to 1Megabit.

**Insulation voltage (at 20°C):**

Of the covering blue sheath: 3000V (test)

**Operating voltage:**

Of the red and black wire (1mm<sup>2</sup>): 12V

**Flex Tube**

- Polypropylene copolymer minimum 25% + recycled post-consumer min. 25%, post-industrial recovery recycled max. 50%.
- Flame retarding and coloring additive

- Halogen free according EN 60754-1&2:2014 (IEC 60754 1&2:2011)
- Low smoke according EN 61034-2:2006
- Corresponding standards:
  - EN 61386-22:2004-A:2010
  - EN 61386-1:2009 (IEC 61386-1 Ed2.0:2008)
  - EN 60423:2007
- Certification : CEBEC 1152 - NF-USE 739 – KEMAKEUR
- Classification : ICTA 3422
  - 3 compression force 750N at 23°C
  - 4 impact force 6J at -5°C
  - 2 minimal ambient temperature -5°C
  - 2 maximal ambient temperature +90°C
- Fire hazard : non flame propagating, according EN 61386-22 §12.1:2004-A2010

**INSTALLATION**

**Qualification**

Only qualified electrical contractors, who have the necessary training and knowledge of the electrical and electromagnetic regulations concerning the safety of the end-user, are allowed to install the TELETASK products.

If used inside a cable tray, a minimum distance of 6 cm between AUTOBUS and power cables must be respected.

The AUTOBUS connection is fourfold:

- the +12V connection (thick red wire)
- the 0V connection (ground) - (thick black wire)
- communication wire 'A' (thin blue wire)
- communication wire 'B' (thin white wire)

! Remark: The AUTOBUS cable is to be wired in bus configuration. (each device after another)

! Remark: The central unit is also a node on the bus, to increase the power level on the interfaces, place the central unit somewhere in the middle of the bus. (you can start with two cables at every AUTOBUS connection which is available on your central unit or on the AUTOBUS extension unit TDS10212)

**Terminating the AUTOBUS.**

In order to eliminate reflections on the bus cable, it is necessary to terminate the AUTOBUS by means of a terminating resistor. The resistor is to be connected at each far end of the AUTOBUS cable at the last interface. This is done by setting a jumper (AUTOBUS terminating resistor), which is supplied with every AUTOBUS connector set.

By default, there are no terminating resistors activated.

**CONNECTIONS**

**Central Unit**

Use the AUTOBUS plug-in connector on the TELETASK central unit.

**Interfaces**

Use the special AUTOBUS connector set, delivered with every TELETASK interface. The colours correspond with the wires of the AUTOBUS connector set.

! !!! Star topology cabling is NOT allowed.

**DIMENSIONS**

**Diameter:**

Cable: 6,5 Ø mm +/- 0.2 mm

Tube: 16 Ø mm

**Length:**

Reels of 100 m

**Packaging:**

51 Ø x 21 cm

**NET | GROSS WEIGHT**

11,15 kg | 11,15 kg

**STORAGE**

**Temperature**

-20°C to +65°C

**Relative humidity**

15% to 85%

**OPERATING RANGE**

**Temperature**

-25°C to +80°C max.

**SCHEMATIC DRAWING**

