



**TDS90004ZH - TDS90009ZH - TDS90304ZH AUTOBUS cable 2+2**

The TELETASK AUTOBUS cable is used to connect 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 is compliant with EN50575 (Cca, s1, d1, a1).

**APPLICATION**

The TELETASK AUTOBUS 2+2 cable is compliant with EN50575 (Cca, s1, d1, a1) and is used to connect the TELETASK interfaces and the central unit with each other.

**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 cable is compliant with CPR EN50575 (Cca, s1, d1, a1).

- EN50399 (heat release & smoke production)
- EN61034-2 (smoke density)
- EN60754-2 (acidity & conductivity)
- EN13501-6 (fire classification)

**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)..

Imprint (cable marking):

TELETASK.be – AUTOBUS – CE – EN50575 – CPR – Cca – s1,d1,a1 – TDS90004ZH  
+ Meter indication

**Electrical**

High-speed bus cable for speeds up to 1 Megabit.

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

**INSTALLATION**

**Qualification**

Only certified & qualified electrical contractors, who have the necessary training and knowledge of the electrical and electromagnetic regulations are allowed to install the TELETASK products.

The AUTOBUS cable must be protected against mechanical influences, especially during the building process. A non-conductive tube is recommended. 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 - (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 Voltage 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.**

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 TELETASK central unit.  
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 cable colours correspond with the wires of the AUTOBUS connector set.

! !!! Star topology cabling is NOT allowed.

**DIMENSIONS**

**Diameter:**

6,5 Ø mm

**Length:**

TDS90004ZH: Reels of 100 m  
TDS90009ZH: Reels of 50 m  
TDS90304ZH: Reels of 300 m

**Packaging:**

TDS90004ZH: 33 x 33 x 9 cm  
TDS90009ZH: 25 Ø x 8 cm  
TDS90304ZH: 34,5 x 34,5 x 22 cm

**NET | GROSS WEIGHT**

TDS90004ZH: 5,87 kg | 6,15 kg  
TDS90009ZH: 2,94 kg | 2,94 kg  
TDS90304ZH: 17,61 kg | 19,00 kg

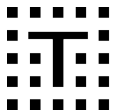
**STORAGE**

**Temperature**

-20°C to +65°C

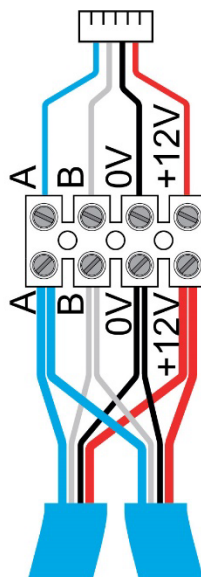
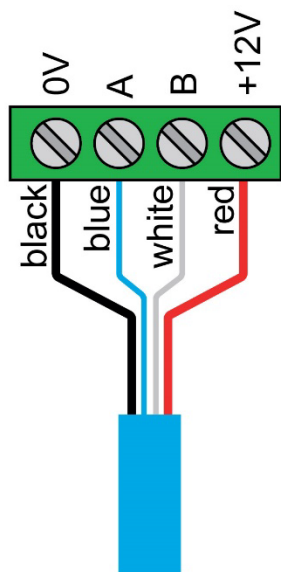
**Relative humidity**

15% to 85%



SCHEMATIC DRAWING

AUTOBUS connection  
on the Central Unit



mini connector to connect  
the AUTOBUS to a TELETASK  
input or output interface  
(Supplied with every interface)

**Reaction to fire classification**  
**in accordance with EN 13501-6 : 2018 + A1 2022**

**A.1 Introduction :**

This classification report defines the classification assigned to the cable with reference, TDS90004ZH, in accordance with the procedures given in EN 13501-6 : 2018 + A1 2022 standard.

Sponsor	TELETASK BV, Ottergemsesteenweg Zuid 729, 9000 Gent, Belgium.
Prepared by	ISSEP, rue du Chera, 200, 4000 Liège, Belgique
Notified Body N°	2659
Product name	TDS90004ZH
Classification report N°	2488-6/2023
Issue N°	1
Issue date	26 <sup>th</sup> July 2023

**A.2 Details of classified product**

**A.2.1. General**

The product TDS90004ZH is defined as a communication cable in accordance with EN 50575 standard.

**A.2.2. Product description**

Product description	Communication cable, multi conductor
ISSEP N° :	LF 1084
Colour:	blue
Diameter :	~ 6.6 mm
Sampling, not carried out by ISSEP	-.

## A.3 Reports and results in support of this classification

### A.3 1. Test reports

Name of laboratory	Name of test sponsor	Test reports N°	Test method
ISSEP	Teletask b.v.	2488-1/2023	EN 60332-1-2
ISSEP	Teletask b.v.	2488-2/2023	EN 50399
ISSEP	Teletask b.v.	2488-3/2023	EN 61034-2
ISSEP	Teletask b.v.	2488-4/2023 2488-5/2023	EN 60754-2

### A.3 2. Results

Test method	Test N°	Parameter	N° test runs	Results	
				Continuous parameter-mean m / result	Compliance with parameters
EN 60332-1	CVU 3143	Flame spread H	1	35 mm	compliant
EN 50399	FIP 3148	THR <sub>1200</sub>	1	10 MJ	
		HRR <sub>peak</sub>	1	20 kW	
		FIGRA	1	77 W/s	
		FS	1	1.5 m	
		TSP <sub>1200</sub>	1	22 m <sup>2</sup>	
		SPR <sub>peak</sub>	1	0.04 m <sup>2</sup> /s	
		Droplets /particles flaming ≤ 10 s flaming > 10 s	1	yes no	not-compliant compliant
EN 61034-2	CUB 821	Minimum light transmittance		94 %	
EN 60754-2	B 901	weighted pH	3	> 4.3	compliant
	B 902	weighted conductivity	3	< 2.5 μS/mm	compliant

## A.4 Classification and field of application

### A.4 1. Reference of classification

This classification has been carried out in accordance with EN 13501-6 : 2018 + A1 2022 standard.

### A.4 2. Classification

The product, TDS90004ZH, communication cable, in relation to reaction to fire behaviour, is classified: **Cca**

The additional classification in relation to smoke production is: **s1**

The additional classification in relation to flaming droplets / particles is: **d1**

The additional classification in relation to acidity is: **a1**

## **Reaction to fire classification**

<b>C<sub>ca</sub></b>	<b>-</b>	<b>s</b>	<b>1</b>	<b>,</b>	<b>d</b>	<b>1</b>	<b>,</b>	<b>a</b>	<b>1</b>
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### A.4 3. Field of application

This classification is valid for the cable described in A 2.2.

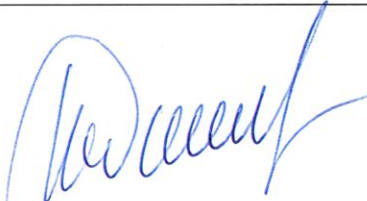
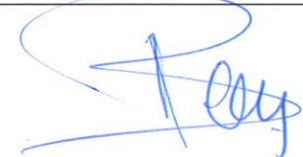
## A.5. Limitations

This classification document does not represent type approval or certification of the product.

The test laboratory has played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of samples tested.

SIGNED

APPROVED

 I. Dyakov Test Executive	 Hervé Breulet, Head of Accidental Risks Department
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