

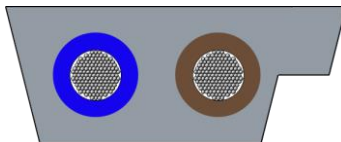
21700373	DATA SHEET	
valid from: 27.06.2025	UNITRONIC® BUS ASI LD G GY 2x2.5	

Application

Field of use: Communication at sensor/actuator level. The grey cable is used to carry auxiliary power supply to the system components.
Performance: The BUS ASI LD 2x2.5 (Long Distance) allows even modules located further away to be connected. AS-I power supplies can be reduced.

Characteristics: halogen free, flame retardant, oil resistant and largely resistant to acids, alkalis and certain oils

Applications: The BUS ASI LD 2.5 is downwards-compatible with version 1.5.



Design

Conductor	2.5 mm ² extra fine-wire stranded tinned copper
Insulation	rubber core diameter: ca. 2.5 mm
Core identification code	brown, blue
Stranding	2 cores parallel deviation, brown core assembled in line with leading edge
Outer sheath	rubber grey, similar RAL 7001

Electrical properties at 20 °C

Loop resistance	max. 16.42 Ω/km
Insulation resistance	min. 1 MΩxkm
Mutual capacitance	max. 80 nF/km (at 167 kHz)
Inductance	0.85 mH/km ± 0,45 mH/km (at 167 kHz)
Characteristic impedance	105 Ω ± 35 Ω (at 167 kHz)
Signal propagation time	≤ 8.3 ns/m (at 167 kHz)
Maximum operating voltage	AS-i: 300 V
Nominal voltage	>30 V DC and ≤ 60 V DC
Test voltage	core/core: 1500 V

Mechanical and thermal properties

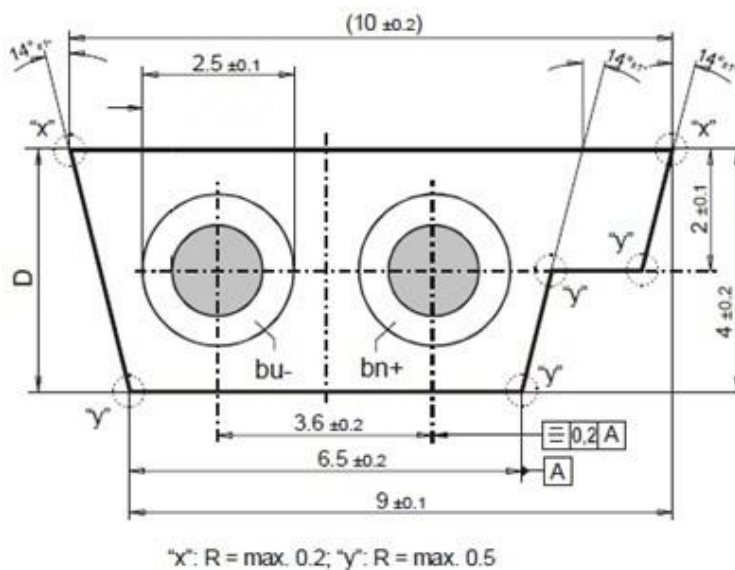
Minimum bending radius	fixed installation: 3x outer diameter occasional flexing: 6x outer diameter
Temperature range	fixed installation: -40 °C up to +85 °C occasional flexing: -25 °C up to +85 °C
Flammability	flame retardant acc. to. IEC 60332-1-2 resp. EN 60332-1-2
Halogen free	acc. to IEC 60754-1 resp. EN 60754-1
Oil resistance	acc. to. EN 50363-10-2
General requirements	This cable is conform to EU-Directive 2014/35/EU (Low Voltage Directive) and to EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).
Environmental information	These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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Dimensions

Dimensions acc. to IEC 62026-2



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