HELUKABEL® BUS RS-485 PVC FLEX

TECHNICAL DATA

Bus cable for RS-485 systems with UL acc. to AWM Style 2464

Temperature range	flexible -5°C to +60°C fixed installation -30°C to +80°C
Operating voltage	300 V
Test voltage core/core	1500 V
Test voltage core/screen	1500 V
Conductor resistance at 20°C	max. 59,2 Ohm/km
Loop resistance at 20°C	max. 118,4 Ohm/km
Insulation resistance	min. 0.5 GOhm x km
Mutual capacitance core/core	at 800 Hz, approx. 40 pF/m
Characteristic impedance	at 1 MHz, 120 +- 12 Ohm
Minimum bending radius	flexible 7.5x Outer-Ø fixed installation 5x Outer-Ø

CABLE STRUCTURE

- Copper wire tinned
- Conductor diameter data conductor: AWG (22/7)
- Conductor diameter power conductor: AWG (22/7)
- Core insulation data conductor: Foam-Skin-PE
- Core insulation power conductor: PP
- Core identification data conductor: white-orange, orange-white
- Core identification power conductor: blue-white
- Data cores stranded in a pair with optimal lay lengths
- Screening element: pair, plastic-coated aluminium foil (St)
- overlayed drain wire, tinned Cu AWG (22/7) + live conductor
- Screen: braided screen of tinned copper wires
- Outer sheath: PVC
- Sheath colour: black

PROPERTIES

- resistant to: oil, UV radiation (SUN RES)
- flame-retardant
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to CSA FT1

APPLICATION

RS-485 bus cable with a characteristic impedance of 120 ohms for use in systems such as CAN or Modbus for the transmission of digital or analog signals with UL certification and UV-resistant PVC sheath.

NOTES

- Conductor sizes are based on the AWG measurement system, metric conductor sizes (mm²) are approx. and are for reference only

Part no.	No. cores x AWG-No.	Cross-sec. mm², approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx
11024857	(1 x 2 x 22 AWG) + 1 x 22 AWG	0.35	7.2	26.4	65.0

24.02.2026 / We reserve the right to make technical changes; the imprint in the image is purely exemplary