2170385	DATA SHEET	LAPP
valid from: 01.01.2019	UNITRONIC® BUS HEAT 6722 1x4x0,25mm²	

Application

UNITRONIC® BUS HEAT 6722 is a bus cable for the Contoll Area Network (CAN) and is normatively specified by ISO 11898 (Maximum bitrate: 1Mbit/s for 40m). The cable with an impedance of 120 Ω has excellent shielding properties. It is used primarily for the transmission of commands in automotive area. The product is heat resistant up to 105 ° C and can also be used outdoors. It is suitable for fixed installation, limited moved applications in dry and damp area and has a moderate resistance to acids and alkalis and certain oils at room temperature.

Design

Certification	certified acc. to ECE-R 118
Conductor	bare copper wire 19 x 0,127 mm, ⌀ approx. 0,61 mm
Insulation	foamed skin polypropylene (09YS), ⌀ 1,60 mm (nominal value)
Core identification code	quad: white/green/brown/yellow
Stranding	4 cores stranded to quad, thin non-woven tape
Screen	aluminium laminated shield foil under braid, tinned coper wires, coverage 85 % ±5 %
Taping	thin non-woven tape (optional)
Outer sheath	PUR, black (similar RAL 9005), outer ⌀: 6,40 mm ⌀ 0,30 mm

Electrical properties at 20°C

Conductor resistance	max. 77,8 Ω/km
Insulation resistance	min. 5 GΩxkm
Inductance	nom. 850 µH/km (800 Hz)
Characteristic impedance	120 Ω (±15%) in frequency range > 1 MHz
Attenuation	nom. 0,7 dB/100m (100 kHz) nom. 2,3 dB/100m (1 MHz) nom. 5,1 dB/100m (5 MHz) nom. 7,2 dB/100m (10 MHz) nom. 10,2 dB/100m (20 MHz)
Near-end cross-talk	min. 50 dB (1 MHz) min. 40 dB (20 MHz)
Signal transit time	nom. 440 ns/100m (20 MHz)
Peak operating voltage	250 V (not for power applications)
Test voltage	conductor/conductor 1500 V conductor/screen 1500 V

Mechanical and thermal properties

Minimum bending radius	moved: 15 x cable ⌀ fixed installation: 8 x cable ⌀
Temperature range	moved: -30˚C up to +105˚C (3000h) fixed installation: -40˚C up to +105˚C (3000h)
Flammability	acc. to ISO 6722-1 clause 5.22
Halogen free	acc. to VDE 0472-815
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

We reserve all rights according to DIN ISO 16016.