CAN Bus

For Indoor Application 2x2x0,50mm² LSZH

Application

Controller Area Network (CAN) serves as variable fieldbus system for industry, in automation complex sensors, actuators and control units. The cable is applicable for fixed installation in dry rooms where protection against fire is required.
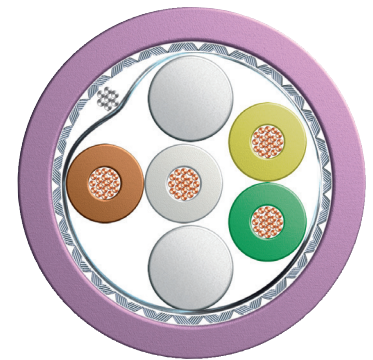
Cable Design

Conductor:	Stranded plain copper wire, VDE cl. 5
Insulation:	FS-PE Ø 2,10 ± 0,05 mm
Core identification:	wh, bn, ye, gn
Foil Shield:	Aluminium/polyester tape
Drain Wire:	Stranded tinned copper
Braid Shield:	Tinned Copper Wire Braid 0,10 mm
Sheath material:	LSZH FireFighter® Ø 11,0 mm nom.
Sheath color:	violet, RAL 4001

Standards

- ISO 11898 ; EN 50170
- Fire Retardant acc. to IEC 60332-3-24

Electrical Characteristics

loop resistance max.	max. 79 Ω / km
Insulation resistance min.	min. 1 GΩ x km at +20°C
Operating capacity	nom. 40 nF / km
Impedance	120 Ω ± 18 Ω
Test voltage	1500 V / AC
Nominal voltage U_0/U	125 V
NVP	nom. 0,76 c
Signal delay	max. 440 ns/100m
Coupling resistance	< 250 mΩ/m at 30MHz

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Mechanical & Thermal Characteristics

Temperature range stationary	-30°C to +70°C
Temperature range during installation	0°C to +50°C
Max. Bending radius installed	5 x diameter
Max. Bending radius moved	10 x diameter
Max. Traction	150 N
Weight	106 kg/km

Specification

Part Number	Type
CNB250-UAZH-22	2x2x0.5mm² CANBus <120ohm> LSZH FireFighter® <UV acc. ISO 4892-2/A> IEC60332-3-24 Violet