

Li-09YS(St)C11Y 2 x 0.35 mm² LSZH

CanBus-Cable

Construction

Conductor	stranded bare copper wire, diameter 7 x 0.26 mm (cross section 0.35 mm ²)	Ø 0.78 mm
Insulation	Foam-Skin PP, wall thickness 0.71 mm	Ø 2.2 ± 0.1 mm
Twisting	2 cores + 2 x PP-fillers twisted to the pair	Ø 4.4 mm
Core identification	1x white, 1x green	
Overall screen	1 x PET-Al-foil + tinned stranded drain wires 19 x 0,15 mm + tinned copper braid optical coverage ≥ 65%	Ø 4.6 mm Ø 5.2 mm
Foil	1 x PET-foil under sheath	Ø 5.3 mm
Sheath	PUR Low Smoke Zero Halogen wall thickness 0.75 mm	Ø 6.8 ± 0.2 mm
Sheath colour	Black, RAL 9005	
Outer Diameter	Nom. 6.8 mm	
Weight	Nom. 46.7 kg/km	
Tensile force N	165	

Mechanical Properties

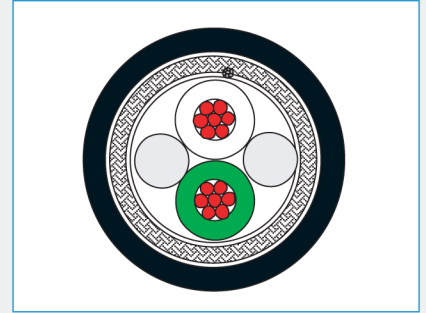
Bending radius during installation - without load - with load	≥ 5 x cable diameter ≥ 10 x cable diameter
Operating temperature	- 30°C up to + 70°C
Storage temperature	-40°C up to 85°C
UV resistance of sheath material	acc. to IEC60068-2-5
Ozone resistance	acc. to EN 60811-2-1, clause 8
Smoke density (light transmittance ≥ 25%)	acc. to EN 50268-2, IEC61034-1 and 2
Corrosivity	acc. EN 50267-1 and 2, IEC 60754-1 and 2
Testing of oil resistance of PU sheath material acc. to VDE 0282 Part 10 and EN 60811-2-1 and thermal endurance graph (Arrhenius) and life expectancy of PU sheath material acc. to ISO 2578 Requirements after aging: max. change of tensile strength: -50% max. change of elongation at break: -50% Mobil DTE 13 M (Hydraulic oil)	150 days at 100°C approx. 24 years at 65°C ≥ 25 years at 20°C
Tribol 1710/20 (Gear oil)	140 days at 100°C approx. 18 years at 65°C ≥ 25 years at 20°C

Electrical Properties at 20°C

Conductor resistance (at 20 ± 5 °C)	≤ 54.5 Ω/km
Characteristic impedance at 1 MHz	120 Ω ± 15%
Insulation resistance (at 20 ± 5 °C and 500 V)	≥ 10 GΩxkm
Operating voltage (50 Hz, rms)	60 V
Test voltage (AC, 1 min) Core/core and core/screen	1.2 kV
Transfer impedance (up to 10 MHz, acc. to IEC 62153-4-3)	≤ 10 mΩ/m

Ordering Information

P/N	Product Description	P.U
1003011 CS2875900	CanBus-Cable, Li-09YS(St)C11Y 2 x 0.35 mm ² LSZH	1000m/drum



Application

- The following CanBus cable is suitable for transmission of CanBus signals according to **DIN 19245 and EN 50170**
- The following CanBus cable is suitable for transmission of CanBus signals according to **ISO 11898-2**
- The cable is suited for fixed indoor and outdoor installation and under certain conditions also for mobile use.
- The cable is halogen free, flame retardant and oil resistant. The sheath material is tested in Hydraulic oil
- ARAL VITAM 32, Mobil DTE 13 M, Gear oil ARAL DEGOL BG Plus 320 and Tribol 1710/320.

Standards

acc. to customer Specification

Fire Rating

- IEC 60332-1, IEC 61034-2, IEC 60754-1/2