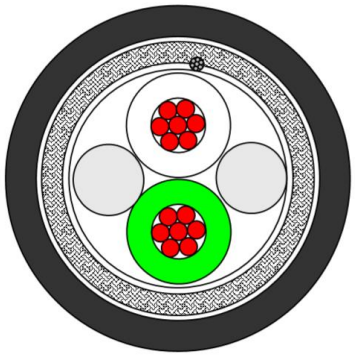
Li-09YCxx 1P x 0.35 mm²

CanBus-Cable



Application

This cable is suitable for transmission of CANBUS signals, for fixed indoor and outdoor installation. It is available in different jackets, according to the environment of installation, being the FRNC excellent oil protected.

Standards

ISO 11898-2; DIN 19245 ; EN 50170

Construction

Conductor	stranded bare copper wire, 7 x 0.26 mm (0.35 mm²)	∅ 0.78 mm
Insulation	Foam Skin PP	∅ 2.2 ± 0.1 mm
Colour code	Pair 1: 1 x white, 1 x green	
Cable lay up	2 cores twisted + 2 plastic fillers	
Overall screen	PET/Al foil + Tinned copper braid, optical coverage ≥ 65% + tinned copper drain wire (19x0.15mm, ∅ 0.78mm)	
Wrapping	1 x PET-foil under sheath	
Sheath	FRNC, PUR, LSHF (SHF1) or PVC	∅ 6.8 ±0.2
Sheath colour	black, RAL 9005	
Marking	**DRAKA** ICS CANBUS <VDE code> 1 x 2 x 0.35mm2 <jacket> + batch + <meter>	

Flame protection

FRNC: no flame protection
PUR, PVC: IEC 60332-1
LSHF (SHF1): IEC 60332-1 / IEC 60332-3-22
Smoke release: FRNC, PUR, SHF1: IEC 61034

Mechanical properties

Bending radius - moving application -fixed application	 ≥ 10 x outer diameter of cable ≥ 5 x outer diameter of cable

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Environmental properties

	FRNC	PUR	SHF1	PVC
Operating temperature	-20°C / +85°C	-20°C / +80°C	-15°C / +70°C	-20°C / +90°C
UV resistance	acc. to IEC60068-2-5	ISO 4892-2 340nm (daylight) 1000h	ASTM-G154 UV-A 1008h, UV stabilized	720h UL 1581
Oil resistance	Testing of oil resistance I 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% Tested with Hydraulic oil ARAL VITAM 32, Mobil DTE 13 M, Gear oil ARAL DEGOL BG Plus 320 and Tribol 1710/320. Tribol 1710/20 (Gear oil) : 150 days at 100°C approx. 24 years at 65°C ≥ 25 years at 20°C 140 days at 100°C approx. 18 years at 65°C ≥ 25 years at 20°C	21d x 90°C IRM901 21d x 90°C IRM902 7d x 90°C IRM903	7d x 23°C IRM 902 4h x 70°C IRM 902 7d x 23°C IRM 903	Not applicable

Electrical properties

at 20°C

Conductor resistance (at 20 ± 5 °C)	≤ 49 Ω/km
Characteristic impedance at 1 MHz	120 Ω ± 15%
Attenuation @ 1MHz	1.4 dB/100m
Capacitance at 800 Hz (nominal)	36 nF/km
Insulation resistance (at 20 ± 5 °C / 500 V)	≥ 5 GΩxkm
Test voltage (AC, 1 min) Core/core and core/screen	1.2 kV
Voltage rating (acc UL 758)	300Vrms

Technical data

Product code	Jacket	VDE Designation	Weight approx. kg/km	Standard delivery length* m	Copper content	Tensile force N
60014592	FRNC	Li-2YCH	49	1000	22	165
92875900.03	PUR	Li-2YC11Y	49	1000	22	165
92875900.02	SHF1	Li-2YCH	56	1000	22	165
92875900.04	PVC	Li-2YCY	54	1000	22	165

*Delivered in PWD (plywood drum)