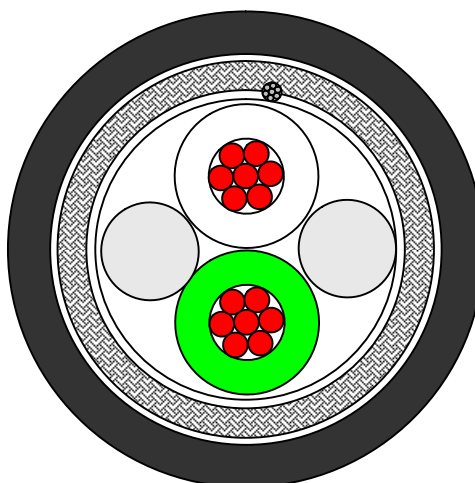




## Li-09YS(St)C11Y 2 x 0.35 mm<sup>2</sup> LSZH

### CanBus-Cable



### Application

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

### Flame resistance

IEC 60332-1 and EN 50265-2-1

### Construction

|                     |                                                                                                                  |                      |
|---------------------|------------------------------------------------------------------------------------------------------------------|----------------------|
| Conductor           | stranded bare copper wire, diameter 7 x 0.26 mm<br>(cross section 0.35 mm <sup>2</sup> )                         | Ø 0.78 mm            |
| Insulation          | Foam-Skin PP,<br>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 +<br>tinned stranded drain wires 19 x 0,15 mm<br>+ tinned copper braid<br>optical coverage ≥ 65% | Ø 4.6 mm<br>Ø 5.2 mm |
| Foil                | 1 x PET-foil under sheath                                                                                        | Ø 5.3 mm             |
| Sheath              | PUR Low Smoke Zero Halogen<br>wall thickness 0.75 mm                                                             | Ø 6.8 ± 0.2 mm       |
| Sheath colour       | black, RAL 9005                                                                                                  |                      |
| Marking             | <b>DRAKA COMTEQ</b> – CanBus -Li-09YS(St)C11Y 2 x 0.35 mm <sup>2</sup> + batch number                            |                      |



## Li-09YS(St)C11Y 2 x 0.35 mm<sup>2</sup> LSZH

### Mechanical properties

|                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Bending radius during installation<br>- without load<br>- with load                                                                                                                                                                                                                                                                                                               | ≥ 5 x Kabeldurchmesser<br>≥ 10 x Kabeldurchmesser                                                                                          |
| Operating temperature                                                                                                                                                                                                                                                                                                                                                             | - 40°C up to + 85°C                                                                                                                        |
| Corrosivity                                                                                                                                                                                                                                                                                                                                                                       | IEC 60754-2                                                                                                                                |
| 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<br>Requirements after aging:<br>max. change of tensile strength: -50%<br>max. change of elongation at break: -50%<br>Mobil DTE 13 M (Hydraulic oil)<br><br>Tribol 1710/20 (Gear oil) | 150 days at 100°C<br>approx. 24 years at 65°C<br>≥ 25 years at 20°C<br>140 days at 100°C<br>approx. 18 years at 65°C<br>≥ 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  |
| Test voltage (AC, 1 min)<br>Core/core and core/screen | 1.2 kV      |

### Technical data

| Product code         | Designation             | Type                        | Brand  | Cable dia.<br>mm | Weight approx.<br>kg/km | Standard delivery length<br>m | Drum size<br>*PWD | Gross weight<br>kg | Copper content | Tensile force<br>N |
|----------------------|-------------------------|-----------------------------|--------|------------------|-------------------------|-------------------------------|-------------------|--------------------|----------------|--------------------|
| 1003011<br>CS2875900 | Li-09YS(St)C11Y<br>LSZH | 2 x 0.35<br>mm <sup>2</sup> | CanBus | 6.8              | 60                      | 1000                          | 650/200/<br>470   | 67                 | 29             | 150                |

\*PWD (plywood drum)