7038882

DATA SHEET

valid from: 01.10.2020

UNITRONIC® SENSOR Li9Y11Y 3x1.0 + 16x0.5



Application

UNITRONIC® SENSOR Li9Y11Y is a cable for high flexible applications in power chains. It is intended for combined usage for power supply and sensor/actuator signal transmission. The PP-insulation and the PUR sheath are halogen free.

Design

Design based on UL AWM Style 10493 (Insulation) and 21198 (Jacket),

UL 758, CSA C22.2 No. 210 (80°C, 300 V)

Certification UL AWM Style 21198 (File No. E63634), UL 758

cRUus AWM I/II A/B (File No. E63634)

Conductor data core 0.5 mm²:

bare copper, fine-wire stranded, Ø ca. 0.9 mm

power supply core 1 mm²:

bare copper, fine-wire stranded, ca. 1.3 mm \emptyset

Insulation data core 0.5 mm²:

polypropylene, wall thickness ca. 0.25 mm, core Ø ca. 1.4 mm

Energieversorgungsader 1 mm²:

polypropylene, wall thickness ca. 0.3 mm, core Ø ca. 1.9 mm

Core identification code data cores 0.5 mm²:

7 data cores (1st layer): brown/green, yellow, white/green, green, red/blue, white, grey/pink 9 data cores (2nd layer): violet, grey/brown, black, white/grey, red, yellow/brown, pink,

white/yellow, grey

Energieversorgungsadern 1 mm²: brown, blue, green/yellow

Stranding - 7 data cores stranded around central PP-filler

stranding Ø: ca. 4.6 mm

- 3 cores for power supply and 9 data cores stranded around 7 central data cores

stranding Ø: ca. 7.9 mm

wrapping:1 layer non-woven tape PUR, black (similar to RAL 9005),

wall thickness: ca. 0.8 mm outer Ø: ca. 9.8 mm

Electrical properties at 20°C

Outer sheath

Flammability

Conductor resistance 0.5 mm 2 : max. 39.0 Ω/km

1 mm 2 : max. 18.7 Ω/km

Peak operating voltage UL: 300 V
Test voltage C/C: 2000 V

Mechanical and thermal properties

Minimum bending radius moved: $10 \times \text{cable } \emptyset$

fixed installation: 5 x cable Ø

Temperature range Moved: - 5 °C up to +80 °C

Fixed installation: - 40 °C up to +80 °C flame retardant acc. to UL 1581 FT-2

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).

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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