

|                                   |                                                      |                                                                                     |
|-----------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>7038880</b>                    | <b>DATA SHEET</b>                                    |  |
| <b>valid from:<br/>01.01.2019</b> | <b>UNITRONIC® SENSOR Li9Y11Y 3x0,75 +<br/>4x0,34</b> |                                                                                     |

## Application

UNITRONIC® SENSOR Li9Y11Y 3x0,75 + 4x0,34 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),<br>UL 758, CSA C22.2 No. 210 (80°C, 300 V)                                    |
| Certification            | UL AWM Style 21198 (File No. E63634), UL 758<br>cRUus AWM I/II A/B (File No. E63634)                                                       |
| Conductor                | data core 0.34 mm²:<br>bare copper, fine-wire stranded, Ø ca. 0.75 mm                                                                      |
| Insulation               | power supply core 0.75 mm²:<br>bare copper, fine-wire stranded, ca. 1.1 mm Ø                                                               |
|                          | data core 0.34 mm²:<br>polypropylene, wall thickness ca. 0.25 mm, core Ø ca. 1.25 mm                                                       |
| Core identification code | Energieversorgungsader 0.75 mm²:<br>polypropylene, wall thickness ca. 0.3 mm, core Ø ca. 1.7 mm                                            |
|                          | data cores 0.34 mm²:<br>white, green, yellow, grey                                                                                         |
| Stranding                | Energieversorgungsadern 0.75 mm²:<br>brown, blue, green/yellow                                                                             |
|                          | 3 cores for power supply and 4 data cores stranded around central PP-filler<br>stranding Ø: ca. 4.8 mm<br>wrapping: 1 layer non-woven tape |
| Outer sheath             | PUR, black (similar to RAL 9005),<br>wall thickness: ca. 0.8 mm<br>outer Ø: ca. 6.6 mm                                                     |

## Electrical properties at 20°C

|                        |                                                      |
|------------------------|------------------------------------------------------|
| Conductor resistance   | 0.34 mm²: max. 54.1 Ω/km<br>0.75 mm²: max. 26.0 Ω/km |
| Peak operating voltage | UL: 300 V                                            |
| Test voltage           | C/C: 2000 V                                          |

## Mechanical and thermal properties

|                        |                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Minimum bending radius | moved: 10 x cable Ø<br>fixed installation: 5 x cable Ø                                                                  |
| Temperature range      | Moved: - 5 °C up to +80 °C<br>Fixed installation: - 40 °C up to +80 °C                                                  |
| Flammability           | flame retardant acc. to UL 1581 FT-2                                                                                    |
| Halogen free           | according to VDE 0472-815                                                                                               |
| General requirements   | This cable is conform to the EU-Directive 2011/65/EU<br>(RoHS, Restriction of the use of certain hazardous substances). |

|                      |                       |             |
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