



## UNITRONIC® SENSOR FD Li9Y11Y

DB7038889

valid from: 20.03.2018

**Application**

UNITRONIC® SENSOR FD Li9Y11Y are sensor/actuator cables, designed for applications in power chains.

Certifications: Insulation AWM-style 10493 and jacket AWM-style 20549 (80°C, 300 V)

**Design**

Design	Design based on UL AWM Style 10493 and 20549
Conductor	superfine wire strands of bare copper wires
Insulation	polypropylene
Core identification code	according to EN 60947-5-2 3-core: brown, blue, black 4-core: brown, white, blue, black 5-core: brown, white, blue, black, grey 8-core: white, brown, green, yellow, grey, pink, blue, red
Stranding	cores stranded to bundle, talced 5-core: central filler
Outer sheath	PUR Colour: black (RAL 9005)

**Diameter of the outer sheath**

Article number	Dimension	Outer sheath $\varnothing$
7038889	3x0.25	ca. 3.6 mm
7038890	4x0.25	ca. 3.9 mm
7038867	5x0.25	ca. 4.7 mm
7038868	8x0.25	ca. 5.9 mm
7038864	3x0.34	ca. 4.6 mm
7038865	4x0.34	ca. 4.7 mm
7038893	5x0.34	ca. 4.5 mm

**Electrical properties at 20°C**

Conductor resistance	0.25 mm <sup>2</sup> : max. 79 $\Omega$ /km 0.34 mm <sup>2</sup> : max. 57 $\Omega$ /km
Specific volume resistivity	7x10 <sup>15</sup> $\Omega$ x cm
Peak operating voltage	300 V (not for power applications)
Test voltage	core (spark test): 3000 V

**Mechanical and thermal properties**

Minimum bending radius	moved: 10 x cable $\varnothing$ fixed installation: 5 x cable $\varnothing$
Number of cycles	min. 10 mio. cycles (max. 60 °C)
Travel distance	10 m length, min. 10 cable $\varnothing$ , max. 3 m/s, max. 10 m/s <sup>2</sup>
Temperature range	Moved: - 25 °C up to +80 °C 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 (RoHS, Restriction of the use of certain hazardous substances).