

**UNITRONIC® SENSOR FD Li9YC11Y****DB7038885**

valid from: 25.02.2016

Application

UNITRONIC® SENSOR FD Li9YC11Y is a sensor/actuator cable, designed for applications in power chains.

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

Design

conductor	superfine-wire stranded bare copper wires, acc. to VDE 0295/EN 60228, class 6
insulation	polypropylene
insulation diameter	0.34 mm ² : ca. 1.25 mm
core identification code	3-core: brown, blue, black 4-core: brown, white, blue, black 5-core: brown, white, blue, black, grey
stranding	cores stranded to bundle, tilded 5-core: central filler
wrapping	non-woven tape
screening	braid of tinned copper wire, coverage ca. 85 %
outer sheath	PUR black (similar to RAL 9005)

Diameter of the outer sheath

article number	dimensions number of cores x [mm ²]	outer sheath ϕ [mm]
7038885	3 x 0.34	ca. 4.30
7038886	4 x 0.34	ca. 4.60
7038887	5 x 0.34	ca. 5.00

Electrical properties at 20° C

conductor resistance	0.34 mm ² : max. 57 Ω /km
specific volume resistivity	7 * 10 ¹⁵ Ω xcm
operating peak voltage	300 V (not for power purposes)
test voltage	core (spark test): 3000 V

Mechanical and thermal properties

minimum bending radius	moved: 10 x cable ϕ fixed installation: 5 x cable ϕ
permissible temperature range	moved: -25° C up to +80° C fixed installation: -40° C up to +80° C
halogen free	halogen free acc. to VDE 0472-815
flame propagation	flame retardant acc. to UL 1581 FT-2
EU-directives	Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.