

UNITRONIC® SENSOR Li9Y11Y
3x0,75 + 4x0,34
DB7038880
 valid from: 20.11.2015

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.

Certification: inner AWM-style 10493 and outer AWM-style 21198 (80 °C, 300 V)

Design

data cores (0.34 mm ²)	conductor	bare copper, fine-wire stranded, ca. 0.75 mm Ø ca. 0.34 mm ²
	insulation	polypropylene, wall thickness ca. 0.25 mm, core Ø: ca. 1.25 mm
	number of cores	4
	core identification	white, green, yellow, grey
cores for power supply (0.75 mm ²)	conductor	bare copper, fine-wire stranded, ca. 1.1 mm Ø ca. 0.75 mm ²
	insulation	polypropylene, wall thickness ca. 0.3 mm, core Ø: ca. 1.7 mm
	number of cores	3
	core identification	brown, blue, green/yellow
overall stranding		3 cores for power supply and 4 data cores stranded around central PP-filler stranding Ø: ca. 4.8 mm
wrapping		1 layer non-woven tape
outer sheath		PUR, black (similar to RAL 9005), wall thickness: ca. 0.8 mm outer Ø: ca. 6.6 mm

Electrical properties at 20° C

data cores (0.34 mm ²)	resistance	max. 54.1 Ω/km
cores for power supply (0.75 mm ²)	resistance	max. 26.0 Ω/km
complete cable	rated voltage (UL)	300 V (not for high-tension current purposes)
	test voltage	2000 V

Mechanical and thermal properties

minimum bending radius	moved: 10 x cable Ø
permissible temperature range	moved: -5° C up to +80° C fixed installation: -40° C up to +80° C
flame retardant	flame retardant acc. to UL 1581, FT2
halogen free	halogen free acc. to VDE 0472-815
EU-directives	Dangerous and forbidden substances acc. to RoHS directive (2011/65/EU) are not allowed to the manufacturing.