

UNITRONIC® SENSOR FD Li9YC11Y 5x0,34**DB7038887**

valid from: 03.12.2012

Application

Sensor cable for applications in power chains.

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

Design

Conductor	bare copper, fine-wire stranded (42 x ca. 0.1 mm), ca. 0.34 mm ²
Insulation	PP, ca. 1.3 mm outer Ø
Core identification code	brown, white, blue, black, grey
Stranding	central filler, cores stranded in one layer on top
Wrapping	non-woven tape
Screening	braid of copper wire, tinned wire, coverage ca. 85 %
Wrapping	non-woven tape
Outer sheath	PUR, black similar to RAL 9005, matt, outer Ø: ca. 5.1 mm

Electrical properties at 20° C

Resistance	max. 57 Ω/km
Specific volume resistivity	7*10 ¹⁵ Ωxcm
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 Ø fixed installation: 5 x cable Ø
Permissible temperature range	moved: -15° C up to +80° C fixed installation: -40° C up to +80° C
Application in power chain (max. +60 °C)	≥ 4 Mio. bending cycles (min. 10 x cable Ø, max. 3 m/s, 10 m length, max. 10 m/s ²)
Halogen free	halogen free acc. to VDE 0472-815
Flame propagation	flame retardant acc. to UL 1581 FT-2
General requirements	Dangerous and forbidden substances acc. to RoHS directive (2002/95/EG) are not allowed to the manufacturing.