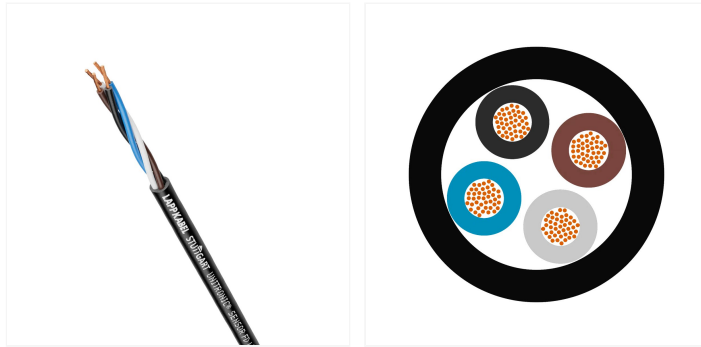


**UNITRONIC® SENSOR FD Lif9Y11Y 4x0,25**

**Article No.:** 7038890

Sensor/actuator cable; Cable chain; PUR; black; cUL listed



**Details**

**Benefits**

- Highly flexible cable design for maximum mechanical stress.
- Compact dimensions enable easy integration into the machine concept.
- Durable, resistant product thanks to the outer jacket PUR material that is resistant to abrasions, notches and cuts.
- "FD-optimized" variant with particularly small cable outer diameter thanks to thinner outer jacket.
- The "FD-shielded" variant offers ideal protection against electromagnetic interference thanks to the copper braided shielding with a high degree of coverage (F/UTP).
- UL certification according to technical data enables the product to be used on the North American market.

**Application**

- Cable design allows highly flexible, continuously flexing use in moving machine parts and in the cable chain.
- Can be used in dry, damp and, especially, harsh and oily environments.
- The PUR outer jacket withstands high mechanical stress.
- The PUR outer jacket is resistant to mineral oil-based lubricants and highly resistant to chemicals.
- Suitable for outdoor use, subject to the temperature range.

**Notes**

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

**Remarks**

Technical Data

**General information**

Brand	UNITRONIC®
Product type	Sensor/actuator cable
Copper index	68.5 lb/10000 ft
valid Fieldbus or Ethernet System	Sensor/Actuator
Industry segment	Agricultural & Farm Machinery Automotive Food & Beverage Intralogistics & Material handling Robotics Ships & boats

**Electrical parameters**

Maximum operating voltage (not for power transmission)	300 V
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**Product design**

LiF-Litz-finewire cables	LiF9Y11Y
Cable dimension	4X0.25
Nominal cross section conductor (mm <sup>2</sup> )	0.25 mm <sup>2</sup>

Leading conductor cross-section	mm <sup>2</sup>
Conductor material	Bare Copper
Conductor design	extra-fine wire
Including protective ground	No
Number of cores	4
Stranding type	Bundle Stranding
Shielded	No
With rodent protection	No
Nominal outer diameter	0.154 in
Cable form	Round
Core insulation base material	Polypropylene
Conductor insulation basic material, short form	PP
Basic material of outer jacket	Polyurethane
Base material of outer sheath, shortname	PUR
Outer jacket color	black
Core identification	Colors
Conductor color code	EN 60947-5-2

### Product features

Application area	Cable chain
For permanent bending	Yes
For torsional load	No
Minimum bending radius, stationary	5 x outer diameter
Minimum bending radius in inch, fixed installation	0.768 in
Minimum bending radius, dynamic continuously flexing	10 x outer diameter
Minimum bending radius in inch, dynamic continuously flexing	1.535 in
Minimum bending radius, occasionally moved	10 x outer diameter
Minimum bending radius in mm, occasionally moved	1.535 in
Maximum travel distance	32.808 ft

Maximum speed sliding	9.843 ft/s
Maximum acceleration	32.808 ft/s <sup>2</sup>
Temperature, fixed installation	-40 °C to 80 °C max. conductor temperature
Temperature, occasionally moved	-25 °C to 80 °C max. conductor temperature
temperature, dynamic permanently moved	-25 °C to 80 °C max. conductor temperature
Flame-retardant	Yes
Flame retardance according to	UL FT2
UV-resistant	Yes
Halogenfree	Yes
Halogen-free according to	VDE 0472-815
Oil resistant	Yes
PWIS-free	Yes
PWIS-free according to	VDMA 24364-B2-L
Fast Connect (FC) cable	No

#### Certifications and standards

CE marking	No
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
UL recognized	No
UL listed	Yes
cUR recognized	No
cUL listed	Yes
CSA certified	No
VDE certified	No
Ecolab certified	No

**UNITRONIC® SENSOR FD**

Article No.	Name	Cable dimension	Conductor design	Shielded	Flame-retardant	UV-resistant	Oil resistant	Nominal outer diameter	Copper index
7038864	UNITRONIC® SENSOR FD Lif9Y11Y 3X0,34	3X0.34	extra-fine wire	No	Yes	Yes	Yes	0.181 in	65.84 lb/10000 ft
7038865	UNITRONIC® SENSOR FD Lif9Y11Y 4X0,34	4X0.34	extra-fine wire	No	Yes	Yes	Yes	0.185 in	87.34 lb/10000 ft
7038867	UNITRONIC® SENSOR FD Lif9Y11Y 5X0,25	5X0.25	extra-fine wire	No	Yes	Yes	Yes	0.185 in	80.6 lb/10000 ft
7038868	UNITRONIC® SENSOR FD Lif9Y11Y 8X0,25	8X0.25	extra-fine wire	No	Yes	Yes	Yes	0.232 in	127.66 lb/10000 ft
7038885	UNITRONIC® SENSOR FD Lif9YC11Y 3x0,34	3X0.34	extra-fine wire	Yes	Yes	Yes	Yes	0.181 in	128.33 lb/10000 ft
7038886	UNITRONIC® SENSOR FD Lif9YC11Y 4x0,34	4X0.34	extra-fine wire	Yes	Yes	Yes	Yes	0.181 in	157.9 lb/10000 ft
7038887	UNITRONIC® SENSOR FD Lif9YC11Y 5x0,34	5X0.34	extra-fine wire	Yes	Yes	Yes	Yes	0.201 in	184.77 lb/10000 ft
7038889	UNITRONIC® SENSOR FD Lif9Y11Y 3x0,25	3X0.25	extra-fine wire	No	Yes	Yes	Yes	0.142 in	50.4 lb/10000 ft
7038890	UNITRONIC® SENSOR FD Lif9Y11Y 4x0,25	4X0.25	extra-fine wire	No	Yes	Yes	Yes	0.154 in	68.5 lb/10000 ft
7038893	UNITRONIC® SENSOR FD Lif9Y11Y 5X0,34	5X0.34	extra-fine wire	No	Yes	Yes	Yes	0.177 in	107.5 lb/10000 ft

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