



## UNITRONIC® SENSOR FD

High flexible cable for sensor/actuator cabling for use in drag chains, halogen-free

**Info**

- For increased mechanical stress and harsh operating conditions



### Benefits

- Designs for highly flexible use
- Abrasion-resistant
- Wear-resistant
- Space-saving due to compact dimensions

### Application range

- Automation technology
- Sensor/ actuator cabling
- Mechanical and plant engineering
- Assembly and production lines

### Product features

- UV-resistant
- Halogen-free according to VDE 0472-815
- Flame-retardant according to IEC UL 1581 FT-2
- Suitable for drag chains
- Designed for 4 million alternating bending cycles and travel distances up to 10 m

### Norm references / Approvals

- UL AWM Style 20549

### Product Make-up

- Extra-fine wire strand made of bare copper wires
- Core insulation: PP
- Colour-code:  
3-pin: bn, bu, bk  
4-pin: bn, wh, bu, bk  
5-pin: bn, wh, bu, bk, gy  
8-pin: bn, wh, gn, ye, gy, pk, bu, rd
- Outer sheath: PUR, black

### Technical data

**Classification ETIM 5/6**  
ETIM 5.0/6.0 Class-ID: EC001578  
ETIM 5.0/6.0 Class-Description:  
Flexible cable

**Peak operating voltage**  
300 V (not for power applications)

**Conductor stranding**  
Extra-fine wire acc. to VDE 0295,  
class 6/ IEC 60228 class 6

**Minimum bending radius**  
Fixed installation: 5 x outer diameter  
Flexing: 10 x outer diameter

**Temperature range**  
Occasional flexing: -25°C to +80°C  
Fixed installation: -40°C to +80°C

Article number	Article designation	Dimensions (mm <sup>2</sup> )	Outer diameter [mm]	Core/outer sheath material	Colour	Copper index [kg/km]
<b>UNITRONIC® SENSOR FD</b>						
7038883	Lif9Y11Y	3x0.25	4.4	PP/PUR	black	7.5
7038884	Lif9Y11Y	4x0.25	4.7	PP/PUR	black	10.2
7038867	Lif9Y11Y	5 x 0.25	4.7	PP/PUR	black	12
7038868	Lif9Y11Y	8 x 0.25	5.9	PP/PUR	black	19
7038864	Lif9Y11Y	3 x 0.34	4.6	PP/PUR	black	9.8
7038865	Lif9Y11Y	4 x 0.34	4.7	PP/PUR	black	13
7038866	Lif9Y11Y	5 x 0.34	5.1	PP/PUR	black	16
<b>UNITRONIC® SENSOR FD - optimized</b>						
7038889	Lif9Y11Y	3x0.25	3.6	PP/PUR	black	7.5
7038890	Lif9Y11Y	4x0.25	3.8	PP/PUR	black	10.2
7038893	Lif9Y11Y	5 x 0.34	4.5	PP/PUR	black	
<b>UNITRONIC® SENSOR FD screened</b>						
7038885	Lif9YC11Y	3 x 0.34	4.3	PP/PUR	black	19.1
7038886	Lif9YC11Y	4 x 0.34	4.6	PP/PUR	black	23.5
7038887	Lif9YC11Y	5 x 0.34	5	PP/PUR	black	27.5

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.  
Please find our standard lengths at: [www.lappkabel.de/en/cable-standardlengths](http://www.lappkabel.de/en/cable-standardlengths)  
Other types of composition are available upon request.  
Photographs and graphics are not to scale and do not represent detailed images of the respective products.

### Accessories

- EPIC® SENSOR M12 refer to page 398
- EPIC® SENSOR M12 V4A refer to page 399
- EPIC® SENSOR M8 refer to page 391
- STAR STRIP stripping tool refer to page 985
- SMART STRIP stripping tool