


U.I. Lapp GmbH	<b>PRODUCT INFORMATION</b>	
	<b>UNITRONIC® SENSOR</b>	12.09.2012



### Application range

Cables for UNITRONIC® field bus sensor/actuator wiring  
 Unshielded and shielded data transmission cables to connect to M8, M12 connectors  
 Automation technology  
 Mechanical engineering  
 Plant engineering

### Design

UNITRONIC® SENSOR LiFY Conductor: extra-fine bare copper strand in accordance with DIN VDE 0295 Class 6; core insulation: PVC, outer sheath: PVC  
 UNITRONIC® SENSOR DESINA® LiY11Y Stranded bare copper conductor, super-fine. In accordance with VDE 0295 Class 6, special PVC insulation, cores twisted in layers, core identification in accordance with DESINA® (brown, white, blue, black). Outer sheath is made of special polyurethane-based compound; yellow colour in acc. to RAL 1021; flame retardant acc. to IEC 60332-1-2. Operating voltage= 48 V, Peak working voltage= 300 V.  
 UNITRONIC® SENSOR FD Li9Y11Y and SENSOR FD Li9YC11Y AWM UL Style 20549, 80 °C/300 V. Conductor: Cu strand, bare, extra-fine wire according to DIN VDE 0295 Class 6, core insulation: modified polypropylene (PP), outer sheath: halogen-free polyurethane (PUR), matt, adhesion-free  
 UNITRONIC® SENSOR FD series cables are specially designed for use in power chains

### Product features

Core colour code in accordance with DIN EN 50044  
 3 x 0.25 mm<sup>2</sup> or 0.34mm<sup>2</sup> 1= brown, 2= blue, 3= black  
 4x 0.25 mm<sup>2</sup> or 0.34 mm<sup>2</sup> 1= brown, 2= white, 3= blue, 4= black  
 5 x 0.25 mm<sup>2</sup> or 0.34 mm<sup>2</sup> 1= brown, 2= white, 3= blue, 4= black, 5= grey  
 8x 0.25mm<sup>2</sup> 1= white, 2=brown, 3= green, 4= yellow, 5= grey, 6= pink, 7=blue, 8= red

### Remark

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.  
 Copper price basis: EUR 150/100kg. Refer to 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)  
 Cables are printed  
 Other types of composition are available upon request.  
 Photographs are not to scale and do not represent detailed images of the respective products.

### Technical Data

Product Management	Document: LAPP_PRO215EN.pdf	1 / 2
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**UNITRONIC® SENSOR**

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Part number	Article designation	Dimensions (mm <sup>2</sup> )	Outer diameter (mm)	Core/outer sheath material	Colour	Copper index (kg/km)
<b>UNITRONIC® SENSOR</b>						
7038859	S-LifYY	3 x 0.34	4.8	PVC/PVC	black	9.8
7038860	S-LifYY	4 x 0.34	4.8	PVC/PVC	black	13.1
0040434	DESINA	4 x 0.34	5.2	PVC/PUR	yellow (RAL 1021)	13.5
7038861	S-LifY11Y	4 x 0.34	4.8	PVC/PUR	black	13.1
7038862	S-LifY11Y	5 x 0.25	4.9	PVC/PUR	black	12.0
<b>UNITRONIC SENSOR FD</b>						
7038883	Li9Y11Y	3x0.25	4.4	PP/PUR	black	7.5
7038864	Li9Y11Y	3 x 0.34	4.6	PP/PUR	black	9.8
7038884	Li9Y11Y	4x0.25	4.7	PP/PUR	black	10.2
7038865	Li9Y11Y	4 x 0.34	4.7	PP/PUR	black	13.0
7038867	Li9Y11Y	5 x 0.25	4.7	PP/PUR	black	12.0
7038866	Li9Y11Y	5 x 0.34	5.1	PP/PUR	black	16.0
7038868	Li9Y11Y	8 x 0.25	5.9	PP/PUR	black	19.0
<b>UNITRONIC® SENSOR FD screened</b>						
7038885	Li9YC11Y	3 x 0.34	4.6	PP/PUR	black	19.1
7038886	Li9YC11Y	4 x 0.34	4.7	PP/PUR	black	23.5
7038887	Li9YC11Y	5 x 0.34	5.1	PP/PUR	black	27.5