



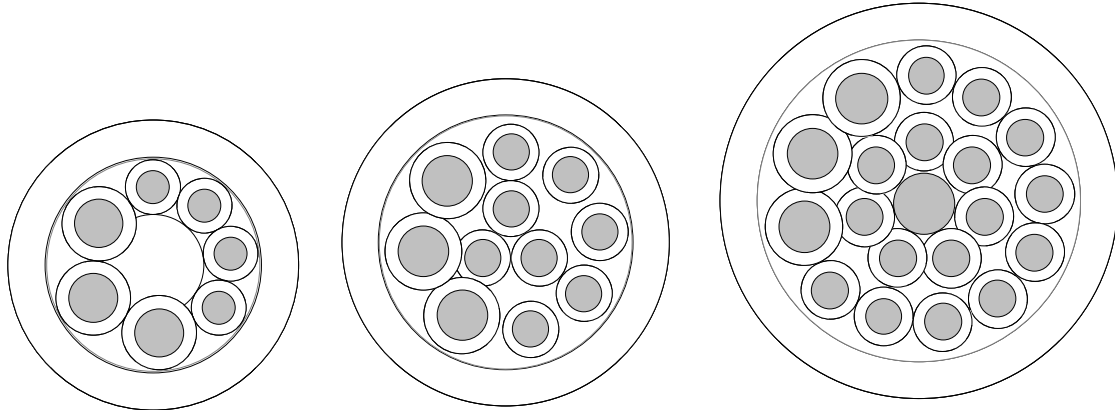
<b>DATA SHEET</b>	703888x
<b>UNITRONIC® SENSOR Li9Y11Y COMBI UL</b>	valid from : 12.10.2009

**Application**

UNITRONIC® SENSOR Li9Y11Y COMBI UL is a high-flexible cable for combined use of power and sensor / actuator signals for industrial control applications. Highest emphasis is on optical and stripping-characteristics. Cable is installed highly flexible suitable for permanently flexing applications. PP-insulation and PUR sheath are halogenfree; cable surface is matt and highly abrasion resistant.

Article No.	Type	Outer Diameter
7038880	UNITRONIC SENSOR Li9Y11Y 3x0,75+4x0,34UL	6,6 mm
7038881	UNITRONIC SENSOR Li9Y11Y 3x1,0+8x0,5UL	8,4 mm
7038882	UNITRONIC SENSOR Li9Y11Y 3x1,0+16x0,5UL	9,8 mm

**Design**



<b>Conductor 0,34 mm<sup>2</sup></b> Core insulation	<b>acc. UL-Style 10493</b> Bare copper wire stranded (43x0,10mm) Polypropylene halogenfree, 0,25mm
<b>Conductor 0,5 mm<sup>2</sup></b> Core insulation	<b>acc. UL-Style 10493</b> Bare copper wire stranded (19x0,18mm) Polypropylene halogenfree, 0,25mm
<b>Conductor 0,75 mm<sup>2</sup></b> Core insulation	<b>acc. UL-Style 10493</b> Bare copper wire stranded (21x0,205mm) Polypropylene halogenfree, 0,3mm
<b>Conductor 1,0 mm<sup>2</sup></b> Core insulation	<b>acc. UL-Style 10493</b> Bare copper wire stranded (55x0,15mm) Polypropylene halogenfree, 0,3mm

<b>Taping</b>	<b>Fleece</b>
<b>Outer sheath</b>	<b>acc. UL Style 21198</b> PUR acc. DIN VDE 0250; part 818, halogenfree Black - similar to RAL 9005



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### Electrical properties at 20 °C

Nominal voltage:	300 V (only for electronic use); per UL
Test voltage:	2000 V
Conductor resistance:	
0,34 mm <sup>2</sup>	max. 54,1 Ω/km
0,50 mm <sup>2</sup>	max. 39,0 Ω/km
0,75 mm <sup>2</sup>	max. 26,0 Ω/km
1,00 mm <sup>2</sup>	max. 18,7 Ω/km

### Mechanical and thermal properties

Temperature range	Fixed installation	-40 °C ... +80 °C
	Flexible applications	- 5 °C ... +80 °C
	Use in power chain	- 5 °C ... +60 °C
Power Chain	expected 2,0 Mio. cycles at 10xØ (still under test)	
Min. bending radius	10xØ for flexible use	
Flammability	flame retardant acc. FT2 (CSA) – HFT(UL)	
Halogenfree	acc. to IEC 60754	
Printing	White ink jet	

### Standard core Colours

#### Provision of electricity / Power wires

3 x 0,75	BN, BU, GN/YE
3 x 1,00	BN, BU, GN/YE

#### Sensor / Actuator / Signal wires

4 x 0,34	WH, GN, YE, GY
8 x 0,50	WH, GY/PK, GN, RD/BU, YE, WH/GN, GY, BN/GN
16 x 0,50	WH, GY/PK, GN, RD/BU, YE, WH/GN, GY, BN/GN PK, WH/YE, RD, YE/BN, BK, WH/GY, VT, GY/BN