

7038903	DATA SHEET	
valid from: 06.02.2019	UNITRONIC® SENSOR LifYY A	

Application

UNITRONIC® SENSOR LifYY A is a sensor cable for medium mechanical stress with UL approval. They are suitable for use in automated production in dry conditions. The cables are intended for fixed installation and conditional flexible use. The used materials can be processed very well and are easily removable.

Design

Design	based on UL AWM Style 2464, UL 758, CSA C22.2 No. 210 (80°C, 300 V) based on standard VDE 0812
Certification	UL AWM Style 2464 (File No. E63634), UL 758 cRUus AWM I/II A/B (File No. E63634)
Conductor	superfine wire strands of bare copper wires
Insulation	special PVC-based compound
Core identification code	according to EN 60947-5-2 3-core: brown, blue, black 4-core: brown, white, blue, black 5-core: brown, white, blue, black, grey
Stranding	cores stranded to bundle, tinned
Outer sheath	special PVC-based compound Colour: black (similar RAL 9005)

Diameter of the outer sheath

Article number	Dimension	Outer sheath \varnothing
7038903	3x0.25 mm ²	ca. 4.3 mm
7038904	4x0.25 mm ²	ca. 4.6 mm
7038905	3x0.34 mm ²	ca. 4.4 mm
7038906	4x0.34 mm ²	ca. 4.8 mm
7038907	5x0.34 mm ²	ca. 5.2 mm

Electrical properties at 20°C

Conductor resistance	0.25 mm ² : max. 79 Ω /km 0.34 mm ² : max. 57 Ω /km
Specific volume resistivity	> 20 G Ω x cm
Peak operating voltage	300 V (not for power applications)
Test voltage	C/C: 2000 V

Mechanical and thermal properties

Minimum bending radius	Flexing: 10 x cable \varnothing Fixed installation: 5 x cable \varnothing
Temperature range	Flexing: VDE: - 5°C up to +70°C UL AWM: up to +80°C Fixed installation: VDE: - 40°C up to +80°C UL AWM: up to +80°C
Flammability	flame retardant acc. to IEC 60332-1-2 UL: FT1 and VW1 CSA: FT1
General requirements	This cable is conform to the EU-Directive 2011/65/EU (RoHS, Restriction of the use of certain hazardous substances).

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