

## 1x2x18 AWG Overall Shielded Instrumentation Cable

**Part Number:** **8521811101**

**Applications:** Class 1 Division 2, Hazardous areas, Process control industry, Indoor & Outdoor Use, Fixed or Portable Installation

**General Construction:** One twisted pair, overall aluminum-foil shielded and jacketed.

**Outer Jacket Material:** FR-PVC

**Outer Diameter:** 5.9 mm nom.

**Weight:** 50 kg/km



### Design & Materials

<b>Conductor Material:</b>	Annealed Bare Copper
<b>Conductor Size:</b>	18 AWG
<b>Conductor Size:</b>	7x0.40 mm
<b>Conductor Construction:</b>	Stranded
<b>Insulation Material:</b>	PVC
<b>Insulation Thickness:</b>	0.4 mm
<b>Insulation O.D.:</b>	2.0 mm nom.
<b>Conductor Color Code:</b>	White x Black
<b>Lay Length:</b>	50 mm
<b>Drain-wire 1 Material:</b>	Annealed Tinned Copper
<b>Drain-wire 1 Construction:</b>	Stranded
<b>Drain-wire 1 size mm.:</b>	7x0.32 mm
<b>Drain-wire 1 size:</b>	20 AWG
<b>Overall Shield Design:</b>	100% Coverage
<b>Overall Shield Material:</b>	Aluminum/Polyester Foil
<b>Overall Foil Thickness:</b>	23 µm
<b>Total number of conductors:</b>	2
<b>Outer Jacket Thickness:</b>	0.90 mm nom.
<b>Outer Jacket Color:</b>	Black
<b>Marking:</b>	Per request

### Standards

<b>Applicable Standards:</b>	UL-PLTC, RoHS-2 2011/65/EU
<b>Flammability Rating:</b>	IEC 60332-3

## Performance

<b>Max. DC Resistance :</b>	22.0 $\Omega$ /km@20°C
<b>Dielectric Strength:</b>	2000 V/minute
<b>Dielectric Strength to Shield:</b>	1000 V/minute
<b>Voltage Rating:</b>	300 V
<b>Min. Bend Radius:</b>	45 mm
<b>Max. Operating Temperature:</b>	+90 °C
<b>Min. Operating Temperature:</b>	-30 °C
<b>UV Resistance:</b>	Yes

Prepared By	Revised By	Version Num	Modified on
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