

## 16x2x16 AWG Overall Shielded Instrumentation Cable

**Part Number:** **8701616101**

**Applications:** Class 1 Division 2, Hazardous areas, Process control industry

**General Construction:** 16 pairs are cabled together with a communication wire, overall polyester/aluminum tape shielded and jacketed.

**Outer Jacket Material:** UV resistant FR-PVC

**Outer Diameter:** 22.5 mm nom.

**Weight:** 715 kg/km



### Design & Materials

<b>Conductor Material:</b>	Annealed Bare Copper
<b>Conductor Size:</b>	16 AWG
<b>Conductor Construction:</b>	7x0.49 mm
<b>Insulation Material:</b>	FR-PVC -55°C to 105°C rating
<b>Insulation Thickness:</b>	0.43 mm
<b>Insulation O.D.:</b>	2.3 mm nom.
<b>Conductor unit identification:</b>	Numbered
<b>Conductor Color Code:</b>	Black x White
<b>Lay Length:</b>	60 mm
<b>Comm. Wire:</b>	22 AWG - Orange
<b>Overall Shield Design:</b>	100% Coverage
<b>Overall Shield Material:</b>	Aluminum/Polyester Foil
<b>Overall Foil Thickness:</b>	24 µm
<b>Overall Drain-wire Material:</b>	Annealed Tinned Copper
<b>Overall Drain-wire size:</b>	16 AWG
<b>Overall Drain-wire Construction:</b>	Stranded
<b>Total number of conductor units:</b>	32
<b>Total number of elements:</b>	16
<b>Outer Jacket Thickness:</b>	1.6 mm nom.
<b>Outer Jacket Color:</b>	Black
<b>Marking:</b>	Per request

### Standards

<b>Applicable Standards:</b>	UL PLTC, RoHS 3 2015/863/EU
<b>Flammability Rating:</b>	IEC 60332-3 , IEEE 383

## Performance

<b>Max. DC Resistance :</b>	13.9 $\Omega$ /km@20°C
<b>Capacitance:</b>	115 pF/m
<b>Inductance:</b>	0.25 $\mu$ H/m
<b>Min. Insulation Resistance :</b>	200 M $\Omega$ •km
<b>Min. Bend Radius:</b>	135 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
Dov Shaham	Dov Shaham	2.9	22-06-2008

Teldor Cables & Systems Ltd. ("Teldor") reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. Drawings may not be to scale and are provided for general and informational purposes only. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

**Teldor Cables & Systems Ltd.** - Ein-Dor, 1933500  
6770650

ISRAEL

Tel: +972 4 6770555

Fax: +972 4