

# 2x2x16 AWG 600V Individual and Overall Shielded Instrumentation and Control Cable

## INSTRUMENTATION & SIGNAL

### P/N 8LD3102109

#### INDUSTRY

### Applications

Process control industry, Hazardous areas, Indoor, Outdoor, Class 1 Division 2



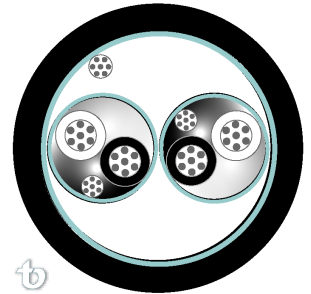
Outer Jacket Material  
UV resistant FR-PVC



Outer diameter  
11.5 mm nom.



Weight  
150 kg/km



### General Construction

2 pairs are individual polyester/aluminum tape shielded, cabled together, overall polyester/aluminum tape shielded and PVC jacketed.

The wires are 600 volts and 105°C rated per MIL-W-16878.

### Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	16
Conductor Construction	19x0.287 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation Thickness (mm)	0.43
Insulation O.D. (mm nom)	2.3
Conductor Color Code	Black x White, numbered
Lay Length (mm)	60
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Thickness (μ)	24
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Stranded
Drain-Wire 1 Size (AWG)	22
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Thickness (μm)	24
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	18

## 2x2x16 AWG 600V Individual and Overall Shielded Instrumentation and Control Cable

P/N 8LD3102109

### INDUSTRY

Overall Drain-wire Construction	Stranded
Total Number Of Conductor Units	4
Outer Jacket Thickness (mm nom)	1.3
Outer Jacket Color	Gray
Marking	Per request

### Performance

Max. DC Resistance ( $\Omega/\text{km}@20^{\circ}\text{C}$ )	15.2
Capacitance (pF/m)	200
Inductance	0.25
Min. Insulation Resistance ( $\text{M}\Omega\cdot\text{km}$ )	200
Min. Bend Radius (mm)	70
Min. Operating Temperature ( $^{\circ}\text{C}$ )	-30
Max. Operating Temperature ( $^{\circ}\text{C}$ )	+90
UV Resistance	Yes
Hydrocarbon Resistance	Yes

### Standards

Flammability Rating  
IEC 60332-3  
IEEE 383

Applicable Standards  
UL PLTC  
UL 2250 Instrumentation Tray  
Cable (ITC) - UL Certified  
UL 13 Power Limited Circuit/Tray  
Cable (PLTC, CL2, CL3) - UL  
Certified  
RoHS 3 2015/863/EU



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.

Version 1.11 | Last update: 2020-03-22