

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

Part Number: 8LD3102109

- Applications:** Class 1 Division 2, Outdoor, Indoor, Hazardous areas, Process control industry
- 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.
- Outer Jacket Material:** UV resistant FR-PVC
- Outer Diameter:** 11.5 mm nom.
- Weight:** 150 kg/km



Design & Materials

Conductor Material:	Annealed Tinned Copper
Conductor Size:	16 AWG
Conductor Construction:	19x0.287 mm
Insulation Material:	FR-PVC -55°C to 105°C rating
Insulation Thickness:	0.43 mm
Insulation O.D.:	2.3 mm nom.
Conductor Color Code:	Black x White, numbered
Lay Length:	60 mm
Ind. Shield Material:	Aluminum/Polyester Foil
Ind. Shield Thickness:	24 μ
Drain-wire 1 Material:	Annealed Tinned Copper
Drain-wire 1 Construction:	Stranded
Drain-wire 1 size:	22 AWG
Overall Shield Design:	100% Coverage
Overall Shield Material:	Aluminum/Polyester Foil
Overall Foil Thickness:	24 μm
Overall Drain-wire Material:	Annealed Tinned Copper
Overall Drain-wire size:	18 AWG
Overall Drain-wire Construction:	Stranded
Total number of conductor units:	4
Total number of elements:	2
Outer Jacket Thickness:	1.3 mm nom.
Outer Jacket Color:	Gray
Marking:	Per request

Standards

Applicable Standards:	UL 13 Power Limited Circuit/Tray Cable (PLTC, CL2, CL3) - UL Certified, UL 2250 Instrumentation Tray Cable (ITC) - UL Certified, UL PLTC, RoHS 3 2015/863/EU
Flammability Rating:	IEC 60332-3 , IEEE 383

Performance

Max. DC Resistance :	15.2 Ω /km@20°C
Capacitance:	200 pF/m
Inductance:	0.25 μ H/m
Min. Insulation Resistance :	200 M Ω •km
Min. Bend Radius:	70 mm
Max. Operating Temperature:	+90 °C
Min. Operating Temperature:	-30 °C
UV Resistance:	Yes
Hydrocarbon Resistance:	Yes

Prepared By	Revised By	Version Num	Modified on
Dov Shaham	Liz Castro	1.11	22-03-2020

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

ISRAEL

Tel: +972 4 6770555

Fax: +972 4 6770650