

12x3x16 AWG Individual and Overall Shielded Instrumentation Cable INSTRUMENTATION & SIGNAL

P/N 8N67012101

INDUSTRY

Applications

Process control industry, Hazardous areas, Class 1 Division 2



Outer Jacket Material
UV resistant FR-PVC



Outer diameter
24.0 mm nom.



Weight
875 kg/km



General Construction

12 triads are individual polyester/aluminum tape shielded, cabled together with a communication wire, overall polyester/aluminum tape shielded and jacketed.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	16
Conductor Construction	7x0.49 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation Thickness (mm)	0.43
Insulation O.D. (mm nom)	2.3
Conductor Unit Identification	Numbered
Conductor Color Code	Black x White x Red
Lay Length (mm)	60
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Thickness (μ)	24
Drain-Wire 1 Construction	Stranded
Drain-Wire 1 Size (AWG)	20
Drain-Wire 2 Material	Annealed Tinned Copper
Drain-Wire 2 Construction	Stranded
Comm. Wire	22 AWG - Orange
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Thickness (μm)	24

12x3x16 AWG Individual and Overall Shielded Instrumentation Cable

P/N 8N67012101

INDUSTRY

Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	16
Overall Drain-wire Construction	Stranded
Total Number Of Conductors	36
Total Number Of Conductor Units	12
Rip-Cord	Yes
Outer Jacket Thickness (mm nom)	1.6
Outer Jacket Color	Black
Marking	Per request

Performance

Max. DC Resistance (Ω /km@20°C)	13.9
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Min. Insulation Resistance ($M\Omega \cdot km$)	200
Voltage Rating (V)	300
Min. Bend Radius (mm)	145
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+105
UV Resistance	Yes

Standards

Flammability Rating
IEC 60332-3
IEEE 383

Applicable Standards
UL PLTC
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 1.4 | Last update: 2013-08-04