

12x3x16 AWG Individual and Overall Shielded Instrumentation Cable

INSTRUMENTATION & SIGNAL

P/N 8N67012101

INDUSTRY

Applications

Process control industry, Hazardous areas, Class 1 Division 2



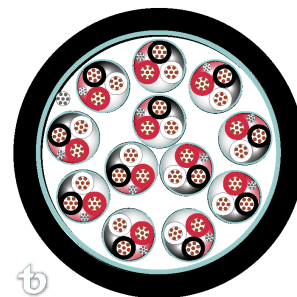
Outer Jacket Material
UV resistant FR-PVC



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

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

Standards

Flammability Rating
IEC 60332-3
IEEE 383

Applicable Standards
UL PLTC
RoHS 3 2015/863/EU



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