INDUSTRY

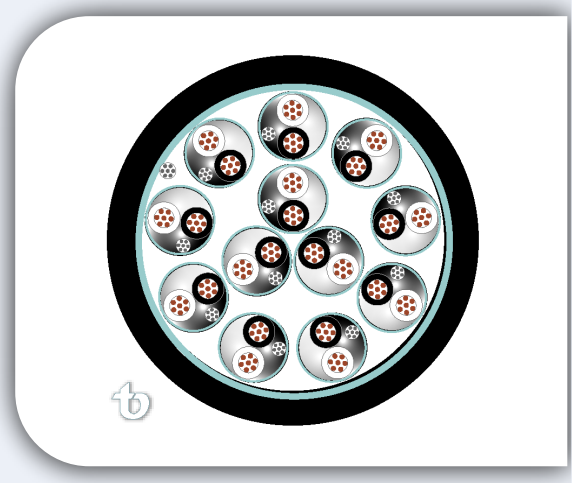
12x2x16 AWG 600V Individual and Overall Shielded Instrumentation and Control Cable

Instrumentation & Signal

P/N 8LD3112109

Applications

Process control industry, Hazardous areas, Indoor, Outdoor, Class 1 Division 2, Exposed Run (ER) used in accordance with NEC



Outer Jacket Material
UV resistant FR-PVC

Outer diameter
21.0 mm nom.

Weight
585 kg/km

General Construction

12 pairs are individual polyester/aluminum tape shilded, 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	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
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
Total Number Of Conductor Units	24
Overall Drain-wire Construction	Stranded
Ind. Shield Thickness (µ)	24
Rip-Cord	Yes
Outer Jacket Thickness (mm nom)	1.6
Outer Jacket Color	Gray
Marking	Per request

Performance

Capacitance (pF/m)	180
Capacitance Pair to Shield (pF/m)	340
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Hydrocarbon Resistance	Yes
Inductance	0.4
Max. DC Resistance (Ω/km@20°C)	15.2
Max. Operating Temperature (°C)	+90
Min. Bend Radius (mm)	125
Min. Insulation Resistance (MΩ•km)	200
UV Resistance	Yes
Voltage Rating (V)	600
Max Pulling Tension	170
Min. Operating Temperature (°C)	-30

Standards

Flammability Rating

IEC 60332-3
IEEE 383

Applicable Standards

UL PLTC
UL PLTC-ER
RoHS 3 2015/863/EU

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