

2x16 AWG TC 600V Overall Shielded Control Cable

INSTRUMENTATION & SIGNAL

P/N 8KDP102101

INDUSTRY

Applications

Process control industry, Short-range low-frequency signals, Indoor, Outdoor, Class 1 Division 2



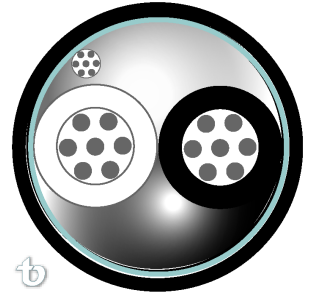
Outer Jacket Material
UV resistant FR-PVC



Outer diameter
8.0 mm nom.



Weight
85 kg/km



General Construction

1 twisted pair, overall foil shielded and jacketed.

Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	16
Conductor Construction	7x0.49 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation Thickness (mm)	0.8
Insulation O.D. (mm nom)	3.1
Pair Identification	Colors
Conductor Color Code	Black, White
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	16
Overall Drain-wire Construction	Stranded
Total Number Of Conductors	2
Outer Jacket Thickness (mm nom)	0.9
Outer Jacket Color	Black
Marking	Per request

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Performance

Max. DC Resistance ($\Omega/\text{km}@20^{\circ}\text{C}$)	14.2
Capacitance (pF/m)	140
Capacitance Pair to Shield (pF/m)	260
Inductance	0.7
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)	600
Min. Bend Radius (mm)	Dx6
Min. Operating Temperature ($^{\circ}\text{C}$)	-30
Max. Operating Temperature ($^{\circ}\text{C}$)	+90
UV Resistance	Yes
Hydrocarbon Resistance	Yes

Standards

Flammability Rating
IEC 60332-1
IEC 60332-3
IEEE 383
UL 1581 VW-1

Applicable Standards
IEC 60228
UL 1277 Power and Control Tray
Cables (TC) - UL Certified
RoHS 3 2015/863/EU



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