

## 2x14 AWG 600V Overall Shielded Control Cable INSTRUMENTATION & SIGNAL

**P/N 8BCP102101**

### INDUSTRY

### Applications

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



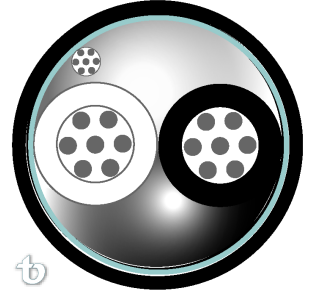
Outer Jacket Material  
UV resistant FR-PVC



Outer diameter  
7.5 mm nom.



Weight  
85 kg/km



### General Construction

1 twisted pair, overall polyester/aluminum foil 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)	14
Conductor Construction	19x0.36 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation Thickness (mm)	0.4
Insulation O.D. (mm nom)	2.7
Conductor Color Code	Black, White
Overall Shield Design	100% Coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Shield	Yes
Overall Foil Thickness (µm)	23
Overall Drain-wire Material	Annealed Tinned Copper
Overall Drain-Wire Size (AWG)	18
Total Number Of Conductors	2
Total Number Of Conductor Units	1
Rip-Cord	Yes
Outer Jacket Thickness (mm nom)	1.0
Outer Jacket Color	Black
Marking	Per request

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#### Performance

Max. DC Resistance ( $\Omega/\text{km}@20^{\circ}\text{C}$ )	10.0
Capacitance Pair to Shield (pF/m)	320
Mutual Capacitance - Core to Core (pF/m)	170
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Voltage Rating (V)	600
Min. Bend Radius (mm)	45
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  
UL 1581 VW-1

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



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