

# 7x12 AWG 600V Overall Shielded Instrumentation Cable INSTRUMENTATION & SIGNAL P/N 8KBP1S7101

INDUSTRY

## Applications

Control, Process control industry, Hazardous areas, Harsh environments, Direct burial, Class 1 Division 2, Indoor & Outdoor Use, Fixed or Portable Installation



Outer Jacket Material  
UV resistant FR-PVC



Outer diameter  
17.4 mm nom.



Weight  
470 kg/km



## General Construction

7 wires cabled together, overall foil shielded and outer jacketed.

## Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	12
Conductor Construction	19x0.455 mm
Insulation Material	FR-PVC -55°C to 105°C rating
Insulation O.D. (mm nom)	4.7
Conductor Color Code	Black
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	7
Rip-Cord	Yes
Outer Jacket Thickness (mm nom)	1.6
Outer Jacket Color	Black
Marking	Per request

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**Performance**

Max. DC Resistance ( $\Omega$ /km@20°C)	6.3
Dielectric Strength (V/minute)	2000
Dielectric Strength to Shield (V/minute)	1000
Min. Insulation Resistance ( $M\Omega \cdot km$ )	200
Voltage Rating (V)	600
Min. Bend Radius (mm)	Dx6
Min. Operating Temperature (°C)	-30
Max. Operating Temperature (°C)	+90
UV Resistance	Yes

**Standards**

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

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



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