

## 7416WS Multi-Conductor - 600V FCC Control Cables for Moderate Flexing



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (16x30) bare copper conductors, PVC-Nylon insulation, Shielded, oil- and abrasion-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material
17	18	16x30	BC - Bare Copper

Total Number of Conductors: 18

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 18

Ground Wire Stranding: 16x30

Ground Wire Conductor Material: BC - Bare Copper

Ground Wire Insulation Material: PVC/Nylon - Polyvinyl Chloride/Nylon

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.381
Nylon	0.127

##### Insulation Color Code Chart:

Color	Description
Black	Individually Numbered

#### Inner Jacket

##### Inner Jacket Material:

Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
TPE - Thermoplastic Elastomer	0.635	12.700

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)	Dia. (mm)
Braided	Tinned Copper	85.000	13.411

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
TPE - Thermoplastic Elastomer	1.600

#### Overall Cable

Overall Nominal Diameter: 16.612 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +90°C

Other Temperature Range: Flexing: -5°C To +90°C

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<b>UL Temperature Rating:</b>	90°C (UL AWM Style 2587)
<b>Bulk Cable Weight:</b>	391.397 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	1841.555 N
<b>Min. Bend Radius (Continuous Flexing):</b>	165.100 mm
<b>Flex Cycle Rating:</b>	1 Million Flexes

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	TC-ER, WTTTC
<b>CEC/C(UL) Specification:</b>	600V Type CIC TC
<b>AWM Specification:</b>	UL Style 2587 (600 V 90°C), UL Style 21486 (1000 V 90°C)
<b>CSA Specification:</b>	AWM I/II A/B
<b>EU Directive 2011/65/EU (ROHS II):</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	10/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>EU REACH SVHC Present:</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

#### Flame Test

<b>UL Flame Test:</b>	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
<b>C(UL) Flame Test:</b>	FT4
<b>IEEE Flame Test:</b>	1202

#### Suitability

<b>Suitability - Burial:</b>	Yes
<b>Sunlight Resistance:</b>	Yes
<b>Oil Resistance:</b>	Yes - Oil Res II
<b>Non-halogenated:</b>	No

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	No
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### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

<b>DCR @ 20°C (Ohm/km)</b>
21.3265

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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## METRIC MEASUREMENT VERSION

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