



**Part Number:** 7416WS

600V FCC Moderate Flex, (17) 18 AWG (16x30) BC+Grd,  
PVC-NYL/TPE, TC Braid Shld, TC-ER

## Product Description

Seventeen 18 AWG stranded (16x30) bare copper conductors plus ground wire, PVC-Nylon insulation, braided tinned copper shield, TPE jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

Element	AWG	Stranding	Material	No. of Conductors
	18	16x30	BC - Bare Copper	17
Ground Wire	18	16x30	BC - Bare Copper	
<b>Total Number of Conductors:</b>				18

#### Insulation:

Material	Nominal Wall Thickness
PVC/Nylon - Polyvinyl Chloride/Nylon	0.015 in
PVC - Polyvinyl Chloride	0.005 in
Nylon	

#### Color Chart 1:

Number	Color
Individually Numbered	Black

## Stranding:

Lay Length
Yes mm

## Innerjacket:

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.5 in	0.025 in

## Outersheild 1:

Type	Material	Coverage [%]	Nominal Diameter
Braid	TC - Tinned Copper	85 %	0.528 in

## Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
TPE - Thermoplastic Elastomer	0.654 in	0.063 in

## Electrical Characteristics

### Conductor DCR:

Nominal Conductor DCR
6.5 Ohm/1000ft

## Use

Suitability - Oil Resistance:	Yes - Oil Res II
Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes
Flex Cycle Rating:	1 Million Flexes
Max Recommended Pulling Tension:	414 lbs

## Safety

C(UL) Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 FT4/IEEE 1202 Vertical Tray Flame Test
Suitability - Non-Halogenated:	No

## Temperature Range

Operating Temp Range:	-40°C To +90°C
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Other Temp Range:	Flexing: -5°C To +90 °C
UL Temp Rating:	90°C (UL AWM Style 2587)

## Mechanical Characteristics

Min Bend Radius (Continuous Flexing):	6.5 in
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## Part Number

Plenum (Y/N):	No
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## Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)

## History

## Product Variants

Part Number	Color	Put-Up Type	Length
7416WS 0601000	CHROME	Reel	1000 ft
7416WS 060250	CHROME	Reel	250 ft

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