

## 7438WS Multi-Conductor - 600V FCC Control Cables for Moderate Flexing



For more Information  
please call

1-800-Belden1



### General Description:

14 AWG stranded (41x30) bare copper conductors, PVC-Nylon insulation, Shielded, oil- and abrasion-resistant PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
6	14	41x30	BC - Bare Copper

Total Number of Conductors: 7

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 14

Ground Wire Stranding: 41x30

Ground Wire Conductor Material: BC - Bare Copper

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

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.015
Nylon	0.005

Insulation Color Code Chart:

Color	Description
Black	Individually Numbered

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom Wall (in.)	Nom. Dia. (in.)
TPE - Thermoplastic Elastomer	0.025	0.444

#### Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)	Dia. (in.)
Braided	Tinned Copper	85.000	0.472

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
TPE - Thermoplastic Elastomer	0.060

#### Overall Cable

Overall Nominal Diameter: 0.598 in.

### Mechanical Characteristics (Overall)

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

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

UL Temperature Rating: 90°C (UL AWM Style 2587)

Bulk Cable Weight: 236 lbs/1000 ft.

Max. Recommended Pulling Tension: 469 lbs.

Min. Bend Radius (Continuous Flexing): 6 in.

Flex Cycle Rating: 1 Million Flexes

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

#### Flame Test

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

#### Suitability

Suitability - Burial:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes - Oil Res II
Non-halogenated:	No

#### Plenum/Non-Plenum

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

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.500

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7438WS 0601000	1,000 FT	251.000 LB	CHROME	C	6#14 + GRD PVC/NYL TPE BRD TPE
7438WS 060250	250 FT	69.000 LB	CHROME	C	6#14 + GRD PVC/NYL TPE BRD TPE
7438WS 0605000	5,000 FT	1,295.000 LB	CHROME		6#14 + GRD PVC/NYL TPE BRD TPE

#### Notes:

C = CRATE REEL PUT-UP.

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