

## 7111W Multi-Conductor - 600V C-TC+ Control Cables for Extreme Flexing

For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (114x38) bare copper conductors, PVC-Nylon insulation, Unshielded, Oil- and Abrasion-resistant PVC Jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material
3	18	114x38	BC - Bare Copper

Total Number of Conductors: 4

#### Ground Wire

Ground Wire (Y/N): Y

Ground Wire AWG: 18

Ground Wire Stranding: 114x38

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	0.406
Nylon	0.127

##### Insulation Color Code Chart:

Color	Description
Red	Individually Numbered

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
TPE - Thermoplastic Elastomer	1.194

#### Overall Cable

Overall Nominal Diameter: 7.950 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -50°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: 86.316 Kg/Km

Max. Recommended Pulling Tension: 409.234 N

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Min. Bend Radius (Continuous Flexing):	78.740 mm
Flex Cycle Rating:	10 Million Flexes

### 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
CSA 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/km)
18.702

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7111W 0031000	1,000 FT	62.000 LB	ORANGE	C	3 #18 + GRD PVC/NYL TPE
7111W 003250	250 FT	18.500 LB	ORANGE	C	3 #18 + GRD PVC/NYL TPE
7111W 0035000	5,000 FT	315.000 LB	ORANGE		2 #18 + GRD PVC/NYL TPE

#### Notes:

C = CRATE REEL PUT-UP.

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