

## 7409W 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 insulation, unshielded, oil- and abrasion-resistant TPE jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
2	18	16x30	BC - Bare Copper

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.5588

Insulation Resistance: 6.1 Megaohms/1000 ft. minimum

Insulation Color Code Chart:

Color	Description
Black	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	1.016

#### Overall Cable

Overall Nominal Diameter: 6.706 mm

### 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:	49.111 Kg/Km
Max. Recommended Pulling Tension:	222.410 N
Min. Bend Radius/Minor Axis:	68.580 mm
Min. Bend Radius (Continuous Flexing):	101.600 mm
Flex Cycle Rating:	1 Million Flexes

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	TC-ER, WTTC
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

## METRIC MEASUREMENT VERSION

### 7409W Multi-Conductor - 600V FCC Control Cables for Moderate Flexing

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
MIL 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
Suitability - Hazardous Locations:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes - Oil Res II

#### Plenum/Non-Plenum

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

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

21.3265

##### Max. Operating Voltage - UL:

Voltage

600 V RMS (UL AWM Style 2587)

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7409W 0601000	1,000 FT	41.000 LB	CHROME	C	2 #18 PVC/NYL TPE
7409W 060250	250 FT	10.750 LB	CHROME	C	2 #18 PVC/NYL TPE
7409W 0605000	5,000 FT	200.000 LB	CHROME		2 #18 PVC/NYL TPE

##### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4    Revision Date: 02-12-2016

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