Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8469 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:



18 AWG stranded (19x30) tinned copper conductors, conductors cabled, PVC insulation, PVC jacket. **Physical Characteristics (Overall)** Conductor AWG: # Conductors AWG Stranding Conductor Material 18 19x30 TC - Tinned Copper 9 Insulation **Insulation Material: Insulation Material** Wall Thickness (in.) PVC - Polyvinyl Chloride .017 **Outer Shield Outer Shield Material: Outer Shield Material**

Unshielded

Outer Jacket

Outer Jacket Material:

 Outer Jacket Material
 Nom. Wall Thickness (in.)

 PVC - Polyvinyl Chloride
 .037

Overall Cabling

Overall Cabling Lay Length & Direction:

Length (in.) Twists (ft.) 3.45 3.4

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple

Overall Nominal Diameter:

0.364 in.

chanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 2598)
Bulk Cable Weight:	96.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	187 lbs.
Min. Bend Radius (Install)/Minor Axis:	3.600 in.

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8469 Multi-Conductor - Audio, Control and Instrumentation Cable

pplicable Standards & Environmental Prog	ompliance (Overall) rams
NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2598 (300 V 60°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
ame Test	
C(UL) Flame Test:	FT4
enum/Non-Plenum	
Plenum (Y/N):	No
ectrical Characteristics (Overall)	
Capacitance Conductor to Conductor: Capacitance (pF/ft) 26 com. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 6.3	
ax. Operating Voltage - UL:	
ax. Operating voltage - UL:	
Voltage 300 V RMS (UL AWM Style 2598)	
Voltage	

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8469 060100	100 FT	9.800 LB	CHROME		9 #18 PVC PVC
8469 0601000	1,000 FT	98.000 LB	CHROME	С	9 #18 PVC PVC
8469 060250	250 FT	24.250 LB	CHROME	С	9 #18 PVC PVC
8469 060500	500 FT	51.500 LB	CHROME	С	9 #18 PVC PVC

Notes: C = CRATE REEL PUT-UP.

Introduction

Belden® multi-conductor cables are manufactured in a wide variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions. These cables meet the technical requirements of many different types of systems. In fact, Belden offers one of the broadest lines of UL Listed, NEC and CEC multi-conductor cables available from any single source.

Applications for multi-conductor cables include computers, communications, instrumentation, sound, control, audio, and data transmission. Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

To assist you in selecting the proper cable for your application, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable product in this section.

Most of our multi-conductor cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a multi-conductor cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Multi-Conductor Cables Packaging

BELDEN

Belden's unique UnReel® cable dispenser is available for many of the multi-conductor products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

Selection Guide

Shielded Multi-Conductor Computer Cables for RS-232 Applications

4.2

				Cable		
Specifica	tions		9925	9608	9533	9939
Conductor Si	ze:	28				
(AWG)		24	1	1	1	
		22				1
		20				
		18				
	Pac	ge No.	4.18	4.17	4.11	4.19
Insulation:	S-R PVC	, 		1	1	1
	Polyethylene					
	Polypropylen	e				
	Datalene [®] [†]		1			
Shield:	Overall Foil				1	
	Drain Wire		1		1	
	Overall Foil/B	raid	1	1		1
	Braid Covera		65%	65%		65%
Drain Wire O			Yes	No	Yes	No
No. of Cond.	Available:	1				
		2				
		3	1	1	1	1
		4	1	1	1	1
		5	1	1	1	1
		6	1	1	1	1
		7	1	1	1	1
		8	1	1	1	1
		9	1	1	1	1
		10	1	1	1	1
		11				
		12				
		13				
		15	1	1	1	1
		17				
		18				
		19				
		20			1	
		25	1	1	1	1
		27				
		30			1	
		31				
		37	1	1		1
		40			1	
		50		1	1	1
Capacitance	** (pF/ft.)		12.0	30.0	30.0	35.0

*All cables are LII -listed

**Capacitance may vary on some cables [†]Foam high density polyethylene.

Unshielded

Audio, Control and Instrumentation Cables Non-Plenum

Description	Part No.	UL NEC/ C(UL) CEC	No. of	Color	Standard	Lengths	Stan Unit V	dard Veight		ation (ness	Jac Thick	ket ness	Nomi	nal OD
	rait no.	Туре	Cond.	Code	Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
0 AWG Stranded (7x28) T	inned Copp	er Conduc	tors • (Conductors	Cabled									
PVC Insulation • Chron	ne PVC Ja	acket												
	9444	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.0 16.5 16.5 32.0 33.0	1.8 7.5 7.5 14.5 15.0	.013	.33	.032	.81	.217	5.51
	9445	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.4 20.0 19.5 38.0 40.0	2.1 9.1 8.9 17.2 18.2	.013	.33	.032	.81	.239	6.07
	9439	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.7 26.0 27.0 51.0 53.0	2.6 11.9 12.3 23.1 24.1	.013	.33	.032	.81	.260	6.60
	9455	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.1 35.0 67.0	3.2 15.9 30.4	.013	.33	.035	.89	.317	8.05
	9457	NEC: CMG CEC: CMG FT4	12	See Chart 1 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.2 45.0 88.0	4.2 20.4 40.0	.013	.33	.035	.89	.338	8.58
	9458	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.6 60.5 118.0	5.7 27.5 53.6	.013	.33	.040	1.02	.389	9.88

18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Chro	me PVC	Jacket												
UL AWM Style 2598 (300V 60°C)	8489	NEC: CMG CEC: CMG FT4	4	See Chart 1 (Tech Info Section)	100 250 U-500 500 U-1000 1000	30.5 76.2 U-152.4 152.4 U-304.8 304.8	5.1 12.0 23.5 24.0 46.0 48.0	2.3 5.4 10.7 10.9 20.9 21.8	.017		.032 lenum ve 8489 or 8		.257 8489,	6.53
	8465	NEC: CMG CEC: CMG FT4	5	See Chart 1 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	6.4 29.5 30.0 58.0 60.0	2.9 13.5 13.6 26.3 27.4	.017	.43	.033	.84	.282	7.16
	8467	NEC: CMG CEC: CMG FT4	7	See Chart 1 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	8.3 20.0 40.5 79.0	3.8 9.1 18.4 35.9	.017	.43	.037	.94	.314	7.98
	8469	NEC: CMG CEC: CMG FT4	9	See Chart 1 (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	10.5 26.0 51.5 105.0	4.8 11.8 23.4 47.7	.017	.43	.037	.94	.364	9.25
	8466	NEC: CMG CEC: CMG FT4	12	See Chart 2R (Tech Info Section)	100 250 500 1000	30.5 76.2 152.4 304.8	13.2 32.5 66.0 131.0	6.0 14.8 30.0 59.5	.017	.43	.040	1.02	.412	10.46
	8468	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	17.9 89.5 175.0	8.1 40.6 79.5	.017	.43	.045	1.14	.500	12.70

