Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

9432 Multi-Conductor - Audio, Control and Instrumentation Cable



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Description:

22 AWG stranded (7x30) tinned copper conductors, conductors cabled, PVC insulation, PVC jacket.

Physical Characteristics (Overall) Conductor AWG:	22 AWG	stranded (7	7x30) ti	nned copper cor	nductors, conductors cabled, PVC insulation, PVC jacket.
AVG: I Conductors XVG Stranding Conductor Material 30 [22 X30 [C-Tinned Copper] Insulation Material: Impulsion Material [Model Material: [Model Mat	Physical	I Character	istics	(Overall)	
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18Orange/Red19Blue/Red					
19 Blue/Red					
20 Red/Green					
	20	Red/Green			



ENGLISH MEASUREMENT VERSION

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9432 Multi-Conductor - Audio, Control and Instrumentation Cable

21	Orange/Green
22	Black/White/Red
23	White/Black/Red
24	Red/Black/White
25	Green/Black/White
26	Orange/Black/White
27	Blue/Black/White
28	Black/Red/Green
29	White/Red/Green
30	Red/Black/Green

Overall Nominal Diameter:

0.400 in.

Mechanical Characteristics (Overall)

ne	chanical onalacteristics (overall)	
	Operating Temperature Range:	-20°C To +80°C
	UL Temperature Rating:	80°C (UL AWM Style 2576)
	Bulk Cable Weight:	114.600 lbs/1000 ft.
	Max. Recommended Pulling Tension:	270 lbs.
	Min. Bend Radius (Install)/Minor Axis:	4 in.

Applicable Specifications and Agency Compliance (Overall)

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2576 (150 V 80°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	
UL Flame Test:	FT4
enum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. I	nductance:
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Inductance (µH/ft)

.17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

34

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.6

Max. Operating Voltage - UL:

Voltage

300 V RMS (CMG)



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9432 Multi-Conductor - Audio, Control and Instrumentation Cable

150 V RMS (UL AWM Style 2576)

Max. Recommended Current:

Current

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1.5 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9432 060100	100 FT	12.500 LB	CHROME		30#22 PVC PVC
9432 0601000	1,000 FT	124.000 LB	CHROME	С	30#22 PVC PVC
9432 060500	500 FT	62.500 LB	CHROME	С	30#22 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 Plenum-Rated and Non-Plenum

Description	DeathN	UL NEC/	No. of Cond.	Color Code	Standard	Lengths	Stan Unit V	dard Veight	Insul Thick	ation mess	Ja Thic	cket kness	Nomi	nal OD
Description	Part No.	C(UL) CEC Type			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
2 AWG Stranded (7x30)	Tinned Copp	per Conduc	tors • (Conductors	Cabled (c	ontinued)								
PVC Insulation • Chro	ome PVC J	acket												
L AWM Style 2576 150V 80°C)	8457	NEC: CMG CEC: CMG FT4	12	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	5.6 25.5 26.0 50.0 52.0	2.5 11.6 11.8 22.7 23.6	.010	.25	.032	.81	.272	6.91
	8458	NEC: CMG CEC: CMG FT4	15	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.3 35.5 72.0	3.3 16.1 32.7	.010	.25	.040	1.02	.315	8.00
	9431	NEC: CMG CEC: CMG FT4	20	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	9.1 48.5 87.0	4.1 22.0 39.5	.010	.25	.040	1.02	.345	8.76
	8459	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.1 55.0 109.0	5.0 25.0 49.5	.010	.25	.040	1.02	.387	9.83
	9432	NEC: CMG CEC: CMG FT4	30	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.5 62.5 124.0	5.7 28.4 56.3	.010	.25	.040	1.02	.400	10.16
	9433	NEC: CMG CEC: CMG FT4	40	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.6 83.0 161.0	7.5 37.7 73.1	.010	.25	.040	1.02	.455	11.56
	9434	NEC: CMG CEC: CMG FT4	50	See Chart 2R (Tech Info Section)	500 1000		100.5 206.0	45.7 93.5	.010	.25	.045	1.14	.500	12.70
Plenum • FEP Insulat	ion • Red I	FEP Jack	et											
00V RMS, Non-conduit	88442*	NEC: CMP CEC: CMP FT6	2	Black, Red	100 500† 1000†	30.5 152.4 304.8	2.3 5.5 8.0	1.0 2.5 3.7	.006	.15	.012	.30	.102	2.59
00V RMS, Non-conduit	88444	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	100 500† 1000†	30.5 152.4 304.8	2.9 9.0 15.0	1.3 4.1 6.8	.006	.15	.010	.25	.121	3.07
uitable for Outdoor and Direct Burial a	-													
Plenum • FEP Insulat 00V RMS, Non-conduit	ion • Natur 82442*	ral Flama NEC: CMP CEC: CMP FT6	rrest ^e 2	Jacket Black, Red	U-1000 † 1000 †	U-304.8 304.8	9.0 8.0	4.1 3.7	.006	.15	.015	.38	.113	2.87
00V RMS, Non-conduit	82444	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	U-500 [†] U-1000 [†] 1000 [†]	U-152.4 U-304.8 304.8	9.0 16.0 15.0	4.1 7.3 6.8	.006	.15	.015	.38	.134	3.40

* Twisted Pair [†]Spools and/or UnReel[®] cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

