Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8622 Multi-Conductor - Audio, Control and Instrumentation Cable





Description:

16 AWG stranded (19x29) tinned copper conductors, conductors cabled, PVC insulation, PVC jacket.

To AvvG stranded (19x29) tinned copper co	nuuciors, conductors capied, PVC insulation, PVC jacket.
Physical Characteristics (Overall)	
Conductor	
AWG:	
# Conductors AWG Stranding Conductor Material	
12 16 19x29 TC - Tinned Copper	
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (in.)	
PVC - Polyvinyl Chloride .031	
Insulation Resistance:	500 Megaohms/1000 ft.
Outer Shield	
Outer Shield Material:	
Outer Shield Material	
Unshielded	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material Nom. Wall Thickness (in.)	
PVC - Polyvinyl Chloride .060	
Overall Cabling Lay Length & Direction: Length (in.) Twists (ft.) 9.11 1.3 Overall Cabling Color Code Chart:	
Number Color 1 Black	
2 White	
3 Red	
4 Green	
5 Orange	
6 Blue	
7 White/Black	
8 Red/Black	
9 Green/Black	
10 Orange/Black	
11 Blue/Black	
12 Black/White	
Overall Nominal Diameter:	0.627 in.
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C

Detailed Specifications & Technical Data



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		1	8622 M	ulti-Cond	uctor - A	Audio	, Control and Instrumentation	n Ca
Bulk Cable Weight:		:	229.700 lt	os/1000 ft.				
Max. Recommended P	ulling Tension	:	364 lbs.					
Min. Bend Radius (Ins	tall)/Minor Axis	:	6 in.					
plicable Specificati				Overall)				
pplicable Standards 8	Environmen	tal Programs	S					
EU CE Mark:			Yes					
EU Directive 2000/53/E	EC (ELV):		Yes					
EU Directive 2002/95/E	EC (RoHS):		Yes					
EU RoHS Compliance	Date (mm/dd/y	ууу):	10/01/200	5				
EU Directive 2002/96/E	EC (WEEE):		Yes					
EU Directive 2003/11/E	EC (BFR):		Yes					
CA Prop 65 (CJ for Wi	re & Cable):		Yes					
MII Order #39 (China F	₹oHS):		Yes					
ame Test								
Other Flame Test:			VW-1, FT	1				
ectrical Characteris	tics (Overall)						
om. Capacitance Conduc	tor to Conduct	or:						
Capacitance (pF/ft) 19.5								
	4							
om. Conductor DC Resis DCR @ 20°C (Ohm/1000 ft)								
4.4	1							
ax. Operating Voltage - L	」 JL:							
Voltage 600 V RMS								
ax. Recommended Curre	ent:							
Current								
5 Amps per conductor @ 25	,C							
t Ups and Colors:								
m #	Putup	Ship Weight		Color	No	tes	Item Desc	
	100 FT	27 000 L B		CHROME			12 #16 PVC ERPVC	

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8622 060100	100 FT	27.000 LB	CHROME		12 #16 PVC FRPVC
8622 0601000	1,000 FT	251.000 LB	CHROME	С	12 #16 PVC FRPVC
8622 060500	500 FT	126.500 LB	CHROME	С	12 #16 PVC FRPVC

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		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	Destaller	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Sta Unit	Standard Unit Weight		Insulation Thickness		Jacket Thickness		nal OD
	Part No.				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
18 AWG Stranded (19x30) T	inned Cop	per Condu	ctors	 Conductor 	s Cabled	(continued)								
PVC Insulation • Chrom	ne PVC J	acket												
UL AWM Style 2598 (300V 60°C)	8619	NEC: CMG CEC: CMG FT4	19	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	20.3 101.0 198.0	9.2 45.9 90.0	.017	.43	.045	1.14	.490	12.45
	9626	NEC: CMG CEC: CMG FT4	25	See Chart 2R (Tech Info Section)	100 500 1000	30.5 152.4 304.8	29.1 139.5 277.0	13.2 63.3 125.8	.017	.43	.060	1.52	.612	15.54
Plenum • FEP Insulatio	n • Red I	FEP Jack	et											
300V RMS	88489	NEC: CMP CEC: CMP FT6	4	Black, White, Red, Green	500 [†] 1000 [†]	152.4 304.8	14.5 29.0	6.6 13.2	.007	.18	.009	.23	.161	4.09
Suitable for Outdoor and Direct Burial applie														
Plenum • FEP Insulatio 300V RMS	n • Natur 82489	NEC: CMP CEC: CMP FT6	4	Black, Black, White, Red, Green	U-1000 [†] 1000 [†]	U-304.8 304.8	31.0 29.0	14.1 13.2	.007	.18	.014	.36	.170	4.32
16 AWG Stranded (19x29) T PVC Insulation • Cable		•		Conductors	s Cabled									
UL AWM Style 1007 (300V 80°C) VW-1	9498		3	Orange, Black, Orange w/ Black Stripe	1000	304.8	42.0	19.1	.027	.69	-	-	.243	6.17
PVC Insulation • Chrom	ne PVC J	acket												
600V RMS 80°C C(UL) FT4 VW-1	8620	—	4	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	8.9 44.0 88.0	4.0 20.0 40.0	.031	.79	.042	1.07	.376	9.55
	9620	_	5	See Chart 2 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	11.0 53.5 109.0	5.0 24.3 49.5	.031	.79	.042	1.07	.411	10.44
	8621	—	7	See Chart 2F (Tech Info Section)	{ 100 500 1000	30.5 152.4 304.8	13.2 73.5 143.0	6.0 33.4 65.0	.031	.79	.045	1.14	.458	11.63
	9721	_	8	See Chart 2F (Tech Info Section)	R 100 500 1000	30.5 152.4 304.8	27.3 136.5 269.0	12.4 62.0 122.1	.031	.79	.045	1.14	.496	12.60
	9621	_	9	See Chart 2F (Tech Info Section)	R 100 500 1000	30.5 152.4 304.8	17.0 94.0 181.0	7.8 42.7 82.2	.031	.79	.045	1.14	.533	13.54
	8622	—	12	See Chart 2F (Tech Info Section)	R 100 500 1000	30.5 152.4	27.0	12.3 57.4 114.0	.031	.79	.060	1.52	.627	15.93
	8623	—	15	See Chart 2F (Tech Info Section)	R 100 500 1000		32.5 155.5 314.0	14.8 70.6 142.6	.031	.79	.060	1.52	.694	17.63
	8624	—	19	See Chart 2F (Tech Info Section)	{ 100 500 1000	30.5 152.4	36.8 178.5 361.0	16.7 81.0 164.0	.031	.79	.065	1.65	.740	18.80
	9622		25	See Chart 2F (Tech Info Section)	3 100 500 1000		49.0 236.0 480.0	22.2 107.1 217.9	.031	.79	.065	1.65	.879	22.33

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

