

9750 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:

20 AWG stranded (7x28) tinned copper conductors, PVC insulation, twisted pairs, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	20	7x28	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.013

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.035

Overall Cabling

Overall Nominal Diameter: 0.299 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	45.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	84 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2464 (300 V 80°C)
EU CE Mark:	Yes

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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

Flame Test

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

24.5

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.0

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

Current

2.6 Amps per conductor @ 20°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9750 0601000	1,000 FT	50.000 LB	CHROME	C	3 #20 PR PVC PVC
9750 060500	500 FT	26.500 LB	CHROME	C	3 #20 PR PVC PVC

Notes:

C = CRATE REEL PUT-UP.

Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

Most of our paired 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 paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging



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

Unshielded


Audio, Control and Instrumentation Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm


20 AWG Stranded (7x28) Tinned Copper Conductors • Twisted Pairs

PVC Insulation • Chrome PVC Jacket															
 <p>300V RMS</p>	8205	NEC:	1	See Chart 3 (Tech Info Section)	100	30.5	2.6	1.2	.013	.33	.025	.64	.180	4.57	
		CMG			U-500	U-152.4	9.0	4.1							
		CEC:			500	152.4	9.0	4.1							
		CMG FT4			U-1000	U-304.8	18.0	8.2							
					1000	304.8	18.0	8.2							
 <p>UL AWM Style 2464 (300V 80°C)</p>	9750	NEC:	3	See Chart 3 (Tech Info Section)	500	152.4	26.5	12.0	.013	.33	.035	.89	.299	7.59	
		CMG			1000	304.8	50.0	22.7							
		CEC:													
		CMG FT4													
	9751	NEC:	6	See Chart 3 (Tech Info Section)	100	30.5	9.1	4.1	.013	.33	.035	.89	.366	9.30	
		CMG			500	152.4	45.0	20.5							
		CEC:			1000	304.8	89.0	40.5							
		CMG FT4													
	9752	NEC:	9	See Chart 3 (Tech Info Section)	100	30.5	13.1	5.9	.013	.33	.035	.89	.429	10.90	
		CMG			500	152.4	65.5	29.8							
		CEC:			1000	304.8	125.0	56.8							
		CMG FT4													
9755	NEC:	15	See Chart 3 (Tech Info Section)	100	30.5	17.9	8.1	.013	.33	.040	1.02	.545	13.84		
	CMG			1000	304.8	194.0	88.2								
	CEC:														
	CMG FT4														

19 AWG Solid Bare Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket														
 <p>300V RMS</p>	8486	NEC:	1	Brown, Tan	U-500	U-152.4	9.5	4.3	.015	.38	.025	.64	.182	4.62
		CM			U-1000	U-304.8	18.0	8.2						
		CEC:			1000	304.8	19.0	8.6						
					CM									

18 AWG Stranded (7x26) Tinned Copper Conductors • Twisted Pair

PVC Insulation • Chrome PVC Jacket														
 <p>300V RMS</p>	8461	NEC:	1	Black, White	100	30.5	3.2	1.4	.022	.56	.028	.71	.234	5.94
		CMG			U-500	U-152.4	14.0	6.4						
		CEC:			500	152.4	13.5	6.1						
		CMG FT4			U-1000	U-304.8	26.0	11.8						
					1000	304.8	27.0	12.2						