Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8175 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



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Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

AWG: FPairs AWG Stranding Conductor Material 15 24 7x32 TC - Tinned Copper Insulation Material: Insulation Tade Name Insulation Material Datalene® FPE - Foam Polyethylene Insulation Tade Name Insulation Material Inner Shield Material: Inner Shield Trade Name Type Inner Shield Material Coverage (%) Beidfoll® Tape (Aurinum Foil-Polyester Tape 100 Inner Shield Drain Wire Stranding: Stranded Inner Shield Drain Wire Stranding: Stranded Inner Shield Drain Wire Conductor Material: TC - Tinned Copper Outer Shield Material: Coverage (%) 2 Edifoll® Tape (Aurinum Foil-Polyester Tape 100 Outer Shield Material: Coverage (%) Edifoll® 2 Edifoll® Tape (Aurinum Foil-Polyester Tape 100 Outer Jacket Material: Edifoll® Te - Tinned Copper Outer Jacket Material: Edifoll® Te - Tinned Copper Outer Jacket Material: Edifoll® Edifoll® Outer Jacket Material: Edifoll® Edifoll® Overall Nominal Diameter: 0.665 in	hysical Characteristic	s (Overall)
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4Black & Blue5Black & Yellow6Black & Brown7Black & Orange		
5Black & Yellow6Black & Brown7Black & Orange		
6 Black & Brown 7 Black & Orange		
8 Red & White	7 Black & Orange	
	8 Red & White	

Detailed Specifications & Technical Data

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8175 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)
Bulk Cable Weight:	234 lbs/1000 ft.
Max. Recommended Pulling Tension:	315 lbs.
Min. Bend Radius (Install)/Minor Axis:	6.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards	Environmental Pr	ograms
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NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 2493 (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):	01/01/2004
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
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 100

00

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

22

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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8175 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

Nominal Outer Shield DC Resistance:

DCR @ 20°C	(Ohm/1000 ft)
2.5	

Ind. Pair Nominal Shield DC Resistance @ 20 18 Ohm/1000 ft

Deg. C:

-

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2493)

Max. Recommended Current:

Current

1.1 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8175 060100	100 FT	22.600 LB	CHROME	С	15 PR #24 FRFPE SHLD PVC
8175 0601000	1,000 FT	210.000 LB	CHROME	С	15 PR #24 FRFPE SHLD PVC
8175 060500	500 FT	107.500 LB	CHROME	С	15 PR #24 FRFPE SHLD 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.

BELDEN

Individually Shielded Pairs with Overall Foil/Braid Shield Low-Capacitance Computer Cables for EIA RS-232, EIA RS-422, and Digital Audio Applications

llescription		C(UL) CEC	No.	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom.	Nom.				
	Part No.				Ft.	m	Lbs.	kg	Cond.	Shield	Inch	_	lmp. (Ω)	Vel. of Prop.	pF/ Ft.	pF/ m	pF/ Ft.	** pF/ m
24 AWG Stranded (7x32)	TC Con	ductors • T	wisted	Pairs Indiv	vidually I	Beldfoil®	[®] Shield	ed + O	verall Beldf	oil (100% C	overa	ge) + ī	ГС Bra	id Shie	eld (65	i%) •	Drain	Wire
Datalene® Insulation	on • Cl	nrome P	VC J	acket														
UL AWM Style 2493 (60°C) VW-1	8168	NEC: CM CEC: CM	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.8 61.5 115.0	4.9 28.0 52.3	24.0Ω/Μ′ 78.7Ω/km	Individual: 18.0Ω/Μ' 59.1Ω/km Overall: 3.0Ω/Μ' 9.8Ω/km	.479	12.17	100	78%	12.5	41	22	72.2
Z-Fold®	8170	NEC: CM CEC: CM	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	18.0 83.0 164.0	8.2 37.7 74.5	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/Μ' 59.1Ω/km Overall: 2.7Ω/Μ' 8.9Ω/km	.584	14.83	100	78%	12.5	41	22	72.2
	8175	NEC: CM CEC: CM	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	22.6 107.5 210.0	10.3 48.9 95.5	24.0Ω/M′ 78.7Ω/km	Individual: 18.0Ω/Μ' 59.1Ω/km Overall: 2.5Ω/Μ' 8.2Ω/km	.665	16.89	100	78%	12.5	41	22	72.2
	8178	NEC: CM CEC: CM	18	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	24.6 117.0 238.0	11.2 53.2 108.2	24.0Ω/Μ′ 78.7Ω/km	Individual: 18.0Ω/Μ' 59.1Ω/km Overall: 2.6Ω/Μ' 8.5Ω/km	.686	17.42	100	78%	12.5	41	22	72.2
	8185	NEC: CM CEC: CM	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	32.3 160.5 356.0	14.7 73.0 161.8	24.0Ω/Μ΄ 78.7Ω/km	Individual: 18.0Ω/M' 59.1Ω/km Overall: 2.4Ω/M' 7.9Ω/km	.822	20.88	100	78%	12.5	41	22	72.2

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

