Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8125 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



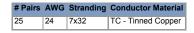
General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

50

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.015

Outer Shield

Outer Shield Material:

L	_ayer#	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape w/Shorting Fold	100
2	2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

ı	Outer Jacket Material	Nom. Wall Thickness (in.)
ı	PVC - Polyvinyl Chloride	0.050

Overall Cable

Overall Nominal Diameter:

0.632 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White
3	White/Green & Green/White
4	White/Brown & Brown/White
5	White/Gray & Gray/White
6	Red/Blue & Blue/Red
7	Red/Orange & Orange/Red
8	Red/Green & Green/Red
9	Red/Brown & Brown/Red
10	Red/Gray & Gray/Red
11	Black/Blue & Blue/Black
12	Black/Orange & Orange/Black
13	Black/Green & Green/Black
14	Black/Brown & Brown/Black
15	Black/Gray & Gray/Black
16	Yellow/Blue & Blue/Yellow
17	Yellow/Orange & Orange/Yellow
18	Yellow/Green & Green/Yellow
19	Yellow/Brown & Brown/Yellow
20	Yellow/Gray & Gray/Yellow
21	Purple/Blue & Blue/Purple
22	Purple/Orange & Orange/Purple
23	Purple/Green & Green/Purple

Page 1 of 3 09-11-2017

Detailed Specifications & Technical Data





8125 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

24	Purple/Brown & Brown/Purple
25	Purple/Gray & Gray/Purple

N

Mechanical Characteristics (Overall)	Mechanical Characteristics (Overall)				
Operating Temperature Range:	-30°C To +80°C				
UL Temperature Rating:	80°C (UL AWM Style 2919)				
Bulk Cable Weight:	175 lbs/1000 ft.				
Max. Recommended Pulling Tension:	280.500 lbs.				
Min. Bend Radius/Minor Axis:	6.500 in.				
Applicable Specifications and Agency Compliance	(Overall)				
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CM				
CEC/C(UL) Specification:	CM				
AWM Specification:	UL Style 2919 (30 V 80°C)				
EU Directive 2011/65/EU (ROHS II):	Yes				
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				
Flame Test					
UL Flame Test:	UL1685 UL Loading				
Plenum/Non-Plenum					

No

88125

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 100

Plenum (Y/N):

Plenum Number:

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) 24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2

Max. Operating Voltage - UL:

 Voltage
 Description

 30 V RMS
 UL AWM Style 2919

 300 V RMS
 CM

Max. Recommended Current:

Current
1 Amp per conductor @ 25°C

Page 2 of 3 09-11-2017

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8125 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8125 060100	100 FT	20.700 LB	CHROME	С	25 PR #24 FHDPE SH PVC
8125 0601000	1,000 FT	191.000 LB	CHROME	С	25 PR #24 FHDPE SH PVC
8125 060500	500 FT	95.000 LB	CHROME	С	25 PR #24 FHDPE SH PVC

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-31-2012

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Mouser Electronics

Authorized Distributor

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Belden Wire & Cable:

<u>8125 0601000</u> <u>8125 060100</u> <u>8125 060500</u>