

## 9182 Twinax - Twinaxial Cable

For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (19x34) tinned copper conductors, Datalene® insulation, Duofoil® (100% Coverage) plus a stranded tinned copper drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	19x34	TC - Tinned Copper	.031

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material
Datalene®	FHDPE - Foam High Density Polyethylene

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

Outer Shield Drain Wire Diameter: .031

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.345 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Yellow

Pair Lay Length & Direction:

Lay Length (in.)	Lay Length	Twists (twist/ft)
3.0		4

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Bulk Cable Weight: 41 lbs/1000 ft.

Max. Recommended Pulling Tension: 28 lbs.

Min. Bend Radius/Minor Axis: 3.500 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2X, CMX
CEC/C(UL) Specification:	CMX
AWM Specification:	UL Style 2668 (30 V 60°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:	VW-1
----------------	------

### Suitability

Suitability - Indoor:	Yes
-----------------------	-----

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89182

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
150

### Nom. Inductance:

Inductance (µH/ft)
0.293

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
8.8

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
16.5

### Nominal Velocity of Propagation:

VP (%)
78

### Nominal Delay:

Delay (ns/ft)
1.3

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
17.750

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
17.750

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.4
10	1.2
50	2.7
100	4.3
200	6.2
400	8.8

**Max. Operating Voltage - UL:**

Voltage
300 V RMS (CMX)
30 V RMS (UL AWM Style 2668)
150 V RMS (CL2X)

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9182 010U500	500 FT	21.500 LB	BLACK		2 #22 FHDPE SHLD PVC
9182 0101000	1,000 FT	44.000 LB	BLACK	C	2 #22 FHDPE SHLD PVC
9182 010500	500 FT	23.000 LB	BLACK	C	2 #22 FHDPE SHLD PVC
9182 0105000	5,000 FT	240.000 LB	BLACK	C	2 #22 FHDPE SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 08-16-2012

© 2013 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.