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Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



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. (mm)
1	22	19x34	TC - Tinned Copper	0.7874

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: 8.763 mm

Pair

Pair Color Code Chart:

Number	Color
1	Black & Yellow

Pair Lay Length & Direction:

Lay Length (cm)	Lay Length Twists (twist/m)
7.62	13.124

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Bulk Cable Weight:	61.016 Kg/Km
Max. Recommended Pulling Tension:	124.550 N
Min. Bend Radius/Minor Axis:	88.900 mm

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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
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Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
150

Nom. Inductance:

Inductance (μH/m)
0.961333

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
28.8728

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
54.1365

Nominal Velocity of Propagation:

VP (%)
78

Nominal Delay:

Delay (ns/m)
4.2653

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
58.238

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
58.238

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Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	1.3124
10	3.9372
50	8.8587
100	14.1083
200	20.3422
400	28.8728

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	152 MT	9.752 KG	BLACK		2 #22 FHDPE SHLD PVC
9182 0101000	305 MT	19.958 KG	BLACK	C	2 #22 FHDPE SHLD PVC
9182 010500	152 MT	10.433 KG	BLACK	C	2 #22 FHDPE SHLD PVC
9182 0105000	1,524 MT	108.863 KG	BLACK	C	2 #22 FHDPE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

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