



Part Number: 9182

Twinax, (1 pr) 22 AWG (19x34) TC, FHDPE/PVC, Foil Shld, CMX

Product Description

One 22 AWG pair stranded (19x34) tinned copper conductors, Datalene® (FHDPE) insulation, Duofoil® shield (100% Coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	19X34	TC - Tinned Copper	0.031 in	1
Total Number of Conductors:				2

Insulation:

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

Color Chart 1:

Number	Color
1	Black & Yellow

Stranding:

Lay Length	Twists	Diameter
3 in	4 twist/ft	0.275 mm

Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire Diameter	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	Duofoil®	100 %	TC - Tinned Copper	0.031 mm	22	19x34 mm

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.345 in

Electrical Characteristics**Conductor DCR:**

Nominal Conductor DCR	Nominal Outer Shield DCR
17.75 Ohm/1000ft	17.75 Ohm/1000ft

Capacitance:

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
8.8 pF/ft	16.5 pF/ft

Impedance:

Nominal Characteristic Impedance
150 Ohm

High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.4 db/100ft
10 MHz	1.2 db/100ft
50 MHz	2.7 db/100ft
100 MHz	4.3 db/100ft
200 MHz	6.2 db/100ft
400 MHz	8.8 db/100ft

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.3 ns/ft	78 %

High Freq:

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Inductance:

Nominal Inductance
0.293 μ H/ft

Voltage:

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

Use

Suitability - Indoor:	Yes
Max Recommended Pulling Tension:	28 lbs

Safety

UL Flammability:	VW-1
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Temperature Range

Operating Temp Range:	-20°C To +60°C
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Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.5 in
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Part Number

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

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification

MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
UL AWM Style:	AWM Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Product Variants

Part Number	Color	Put-Up Type	Length
9182 0101000	BLACK	Reel	1000 ft
9182 0105000	BLACK	Reel	5000 ft
9182 010500	BLACK	Reel	500 ft
9182 010U500	BLACK	Reel	500 ft
9182.00152	BLACK	Reel	152 ft
9182.00305	BLACK	Reel	305 ft

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