

9182 Twinax - Computer & Instrumentation Cable



Description:

150 Ohm twinaxial cable, 22 AWG stranded (19x34) tinned copper, Datalene® insulation, Duofoil® 100% shield + 22 AWG (19x34) tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	19x34
Conductor Diameter	.031 in.
Conductor Material	TC - Tinned Copper

INSULATION:

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

PAIR:

Pair Lay Length & Direction :

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

Pair Diameter	.275 in.
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Pair Color Code Chart :

Number	Color
1	Black & Yellow

OUTER SHIELD:

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

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	22
Outer Shield Drain Wire Stranding	19x34
Outer Shield Drain Wire Diameter	.031 in.

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Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.345 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +60°C
Bulk Cable Weight	41 lbs/1000 ft.
Max. Recommended Pulling Tension	28 lbs.
Min. Bend Radius (Install)	3.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMX, CL2X
CEC/C(UL) Specification	CMX
AWM Specification	Style 2668

FLAME TEST:

UL Flame Test	1581 Vertical Flame (VW-1)
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SUITABILITY:

Suitability - Indoor	Y
Suitability - Outdoor	Y
Suitability - Aerial	Y, when supported by a messenger wire

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	89182

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	150 Ohms
Nom. Inductance	0.293 μ H/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	8.8 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	16.5 pF/ft
Nominal Velocity of Propagation	78 %
Nominal Delay	1.3 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	14.0 Ohms/1000 ft
Nominal Outer Shield DC Resistance	6.3 Ohms/1000 ft
Nom. Attenuation :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
Nominal Attenuation	1			0.4
	10			1.2
	50			2.7
	100			4.3
	200			6.2
	400			8.8

Max. Operating Voltage - UL :

UL Voltage	Description
300 V RMS	NEC CMX
150 V RMS	NEC CL2X
30 V RMS	AWM Style 2668

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9182 0101000	2 #22 FHDPE SHLD PVC	1000	44	BLACK	C
9182 010500	2 #22 FHDPE SHLD PVC	500	23	BLACK	C
9182 010U500	2 #22 FHDPE SHLD PVC	U500	22.5	BLACK	

C = CRATE REEL PUT-UP.

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