



Product: [9271](#)

124Ω Twinax, #25-2c TC, PO, O/A Foil, PVC Jkt, CM

Product Description

124 Ohm Twinax, 25 AWG stranded (7x33) tinned copper conductors, polyethylene insulation, Beldfoil® shield (100% coverage), stranded tinned copper drain wire, PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
25	7x33	TC - Tinned Copper	0.021 in	1
Conductor Count:			2	

Insulation	
Material	Nominal Wall Thickness
PE - Polyethylene	0.031 in

Color Chart	
Number	Color
1	Blue & Clear

Outer Shield						
Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22	7x30

Outer Jacket		
Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.24 in	0.035 in

Construction and Dimensions

Stranding	
Diameter	0.17 mm

Electrical Characteristics		
Conductor DCR		
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance
31.8 Ohm/1000ft	31.8 Ohm/1000ft	
		Nominal Outer Shield DCR
		12 Ohm/1000ft
Capacitance		
Nom. Capacitance Conductor to Conductor		Nom. Capacitance Conductor to Other Conductor to Shield
12.2 pF/ft		22 pF/ft

Inductance	
Nominal Inductance	

0.188 µH/ft

Impedance

Nominal Characteristic Impedance
124 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.6 dB/100ft
10 MHz	1.7 dB/100ft
50 MHz	3.6 dB/100ft
100 MHz	5 dB/100ft
200 MHz	6.9 dB/100ft
400 MHz	9.6 dB/100ft

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66%

High Frequency

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

Voltage

UL Description	UL Voltage Rating
UL AWM Style 2092	300 V RMS

Temperature Range

UL Temp Rating:	60°C (UL AWM Style 2092)
Operating Temperature Range:	-20°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	25 lbs/1000ft
Max. Pull Tension:	17 lbs
Min. Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CM
CEC/C(UL) Compliance:	CM
UL AWM Style Compliance:	AWM 2092 (300 V 60°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive Compliance:	Yes
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Related Part Numbers

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Variants

Item #	Color	Put-Up Type	Length	UPC
9271 006100	Blue	Reel	100 ft	612825226192
9271 006500	Blue	Reel	500 ft	612825226215
9271 0061000	Blue	Reel	1,000 ft	612825226208
9271 006U1000	Blue	UnReel	1,000 ft	612825226185

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.426 Revision Date: 04-29-2024
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