



**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
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#### 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	Nominal Outer Shield DCR
31.8 Ohm/1000ft	31.8 Ohm/1000ft		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
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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 Temp 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:	UL Style 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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#### Part Number

## 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.

## History

Update and Revision: Revision Number: 0.340 Revision Date: 12-15-2021

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