



**Part Number: 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
AWG Size:	25

##### Insulation

Material	Nominal Wall Thickness
PE - Polyethylene	0.031 in

##### Color Chart

Number	Color
1	Blue & Clear

##### Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	22	7x30

##### Outer Jacket Material

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
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 Freq

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 Recommended Pulling Tension:	17 lbs
Min Bend Radius/Minor Axis:	2.5 in

## Standards

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

## Applicable Environmental and Other Programs

EU Directive Compliance:	Yes
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 UL Loading
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## Part Number

Plenum (Y/N):	No
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## Variants

Item #	Color	Footnote
9271 006100	BLUE	

9271 0061000	BLUE	C
9271 006500	BLUE	C
9271 006U1000	BLUE	

Footnote:	C - CRATE REEL PUT-UP.
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