



**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
Conductor Size:	25 AWG

#### 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/Polyester	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
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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 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
UL voltage rating:	300 V RMS

#### Plenum/Non-Plenum

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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