

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

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

Part Number

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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