



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 Material

| 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

| 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. 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 |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| MII Order #39 (China RoHS): | Yes |

Flammability, LSOH, 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 |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup 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: 0.286 Revision Date: 09-30-2020

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