SENDING ALL THE RIGHT SIGNALS


Product: 9182 저
$150 \Omega$ Twinax, 1 Pr \#22 Str TC, FPE Ins, OA Duofoil®, PVC Jkt, CMX
$\square$

## Product Description

Twinax 150 , 1 Pair 22AWG (19x34) Tinned Copper, Foam PE Insulation, Overall Duofoil® Shield, PVC Outer Jacket, CMX

## Technical Specifications

Product Overview

| Suitable Applications: | harsh environment, IloT, factory or process automation, video, audio, data communication, etc. |
| :---: | :---: |
| Construction Details |  |

Conductor

| AWG | Stranding | Nom. Diameter | Material |
| :--- | :--- | :--- | :--- |
| 22 | $19 \times 34$ | 0.030 in | TC - Tinned Copper |

Insulation

| Material | Color Code | Nom. Diameter |
| :---: | :---: | :--- |
| PE - Polyethylene (Foam) | Black \& Yellow | 0.134 in |

Outer Shield Material

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
| :--- | :--- | :--- | :--- | :--- |
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil $®$ | $100 \%$ |

Outer Jacket Material

| Material | Nom. Diameter |
| :---: | :--- |
| PVC - Polyvinyl Chloride | 0.345 in |

Electrical Characteristics

## Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
| :--- | :--- |
| 1 MHz | $0.40 \mathrm{~dB} / 100 \mathrm{ft}$ |
| 10 MHz | $1.20 \mathrm{~dB} / 100 \mathrm{ft}$ |
| 50 MHz | $2.70 \mathrm{~dB} / 100 \mathrm{ft}$ |
| 100 MHz | $4.30 \mathrm{~dB} / 100 \mathrm{ft}$ |
| 200 MHz | $6.20 \mathrm{~dB} / 100 \mathrm{ft}$ |
| 400 MHz | $8.80 \mathrm{~dB} / 100 \mathrm{ft}$ |

## Electricals

| Element | Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Cond (Mutual) | Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pair(s) | 14.0 Ohm/1000ft | 6.3 Ohm/1000ft | $8.8 \mathrm{pF} / \mathrm{ft}$ | $16.5 \mathrm{pF} / \mathrm{ft}$ | 150 Ohm | 78\% |

Voltage
UL Voltage Rating
300 V (CMX)

Mechanical Characteristics

| UL Rating | Operating |
| :--- | :---: |
| $60^{\circ} \mathrm{C}$ | $-20^{\circ} \mathrm{C}$ to $+60^{\circ} \mathrm{C}$ |

## Bend Radius

| Stationary Min. | Installation Min. |  |
| :---: | :---: | :---: |
| 6.0 in | 2.5 in |  |
| Bulk Cable Weight: |  | $41 \mathrm{lbs} / 1000 \mathrm{ft}$ |
| Max. Pull Tension: |  | 28 lbs |

## Standards and Compliance

| Environmental Suitability: | Indoor/Outdoor, Indoor, Sunlight Resistance |
| :---: | :---: |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | VW-1, FT1 |
| NEC / UL Compliance: | Article 725, Article 800, CL2X, CMX |
| AWM Compliance: | 2668 |
| CEC / C(UL) Compliance: | CMX |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Plenum Number: | 89182 |

## Product Notes

Notes:

## Cable contains fillers for better electrical performance

History
Update and Revision: Revision Number: 0.341 Revision Date: 05-26-2021

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