



Product: [89182](#)

150Ω Twinax, 1 Pr #22 Str TC, FFEP Ins, OA DF, FEP Jkt, CMP

Request Sample

Product Description

Twinax 150Ω, 1 Pair 22AWG (19x34) Tinned Copper, Foam FEP Insulation, Overall Duofoil® Shield, FEP Jacket, CMP

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | Harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. |
|------------------------|--|

Construction Details

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|--------------------|
| 22 AWG | 19x34 | 0.030 in | TC - Tinned Copper |

Insulation

| Material | Nom. Insulation Diameter | Color Code |
|---|--------------------------|----------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.130 in (3.30 mm) | Black & Yellow |

Outer Shield

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

Outer Jacket

| Material | Nom. Diameter |
|--------------------------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.307 in (7.80 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.307 in (7.80 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz | 0.40 dB/100ft |
| 10 MHz | 1.10 dB/100ft |
| 50 MHz | 2.75 dB/100ft |
| 100 MHz | 4.30 dB/100ft |
| 200 MHz | 6.20 dB/100ft |
| 400 MHz | 8.80 dB/100ft |

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 of Prop. |
|---------|--------------------|----------------------------|--|---------------------------------|-------------------------------|------------------------|
| Pair(s) | 14.0 Ohm/1000ft | 6.3 Ohm/1000ft (21 Ohm/km) | 8.8 pF/ft (29 pF/m) | 16.5 pF/ft (54.1 pF/m) | 150 Ohm | 78% |

Voltage

| UL Voltage Rating |
|-----------------------|
| 300 V RMS (CL2P, CMP) |

Mechanical Characteristics

Temperature

| UL Temperature | Operating |
|----------------|-----------------|
| 200°C | -70°C to +200°C |

Bend Radius

| Stationary Min. | Installation Min. |
|------------------|-------------------|
| 6.25 in (159 mm) | 2.5 in (64 mm) |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 28 lbs (13 kg) |
| Bulk Cable Weight: | 49 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor - Plenum, Indoor, Outdoor, Aerial - When supported by messenger wire, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | Article 725, Article 800, CL2P, CMP |
| CEC / C(UL) Compliance: | CMP |
| 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) |
| UK Regulation Compliance: | UKCA Mark |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Non-Plenum Number: | 9182 |

Product Notes

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|--------|---|
| Notes: | Cable contains fillers for better electrical performance. |
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History

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| Update and Revision: | Revision Number: 0.524 Revision Date: 02-03-2025 |
|----------------------|--|

Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC | Footnote |
|---------------|-------|------------|----------|--------------|----------|
| 89182 010500 | Black | Reel | 500 ft | 612825220145 | C |
| 89182 0101000 | Black | Reel | 1,000 ft | 612825220138 | C |
| 89182 0105000 | Black | Reel | 5,000 ft | 612825220152 | |
| 89182 0085000 | Gray | Reel | 5,000 ft | 612825220114 | C |

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