



Product: [89207](#)

100Ω Twinax, 1 Pr #20 Str-1c TC/1c BC, FEP ins, FEP Inner Jkt, Duofoil®+TC Braid, FEP Jkt, CMP

Product Description

Twinax 100Ω, 1 Pair, 20 AWG (7x28) one tinned, one bare copper conductor, FEP insulation, FEP inner jacket, Duofoil® + tinned copper braid shield 85%, FEP jacket, CMP

Technical Specifications

Product Overview

| | |
|------------------------|---------------------------|
| Suitable Applications: | Computer, Instrumentation |
|------------------------|---------------------------|

Construction Details

Conductor

| Size | Stranding | Nom. Diameter | Material |
|--------|-----------|---------------|--------------------|
| 20 AWG | 7x28 | 0.036 in | TC - Tinned Copper |
| 20 AWG | 7x28 | 0.036 in | BC - Bare Copper |

Insulation

| Material | Nom. Insulation Diameter | Color Code | Notes |
|--------------------------------------|--------------------------|------------|------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.072 in (1.8 mm) | Clear | FEP on both conductors |
| FEP - Fluorinated Ethylene Propylene | 0.201 in (5.11 mm) | Clear | FEP over pair |

Outer Shield

| Layer | Outer Shield Type | Material | Material Trade Name | Coverage |
|-------|-------------------|-------------------------------|---------------------|----------|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | Duofoil® | 100% |
| 2 | Braid | Tinned Copper (TC) | | 85% |

Outer Jacket

| Material | Nom. Diameter |
|--------------------------------------|--------------------|
| FEP - Fluorinated Ethylene Propylene | 0.259 in (6.58 mm) |

| | |
|-----------------------------------|--------------------|
| Overall Cable Diameter (Nominal): | 0.259 in (6.58 mm) |
|-----------------------------------|--------------------|

Electrical Characteristics

Electricals

| 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. |
|----------------------------|-----------------------------|--|---------------------------------|-------------------------------|------------------------|
| 9.5 Ohm/1000ft (31 Ohm/km) | 2.5 Ohm/1000ft (8.2 Ohm/km) | 14.0 pF/ft (45.9 pF/m) | 23.0 pF/ft (75.5 pF/m) | 100 Ohm | 70% |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V (CMP) |

Mechanical Characteristics

Temperature

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

Bend Radius

| Installation Min. |
|-------------------|
| 3.0 in |

| | |
|--------------------|----------------|
| Max. Pull Tension: | 88 lbs (40 kg) |
| Bulk Cable Weight: | 52 lbs/1000ft |

Standards and Compliance

| | |
|----------------------------------|--|
| Environmental Suitability: | Indoor - Plenum, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | NFPA 262 |
| CPR Compliance: | CPR Euroclass: Eca |
| NEC / UL Compliance: | 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: | 9207 |

History

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| Update and Revision: | Revision Number: 0.319 Revision Date: 05-05-2023 |
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Part Numbers

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 89207 010100 | Black | Reel | 100 ft | 612825220756 |
| 89207 010500 | Black | Reel | 500 ft | 612825220770 |
| 89207 0101000 | Black | Reel | 1,000 ft | 612825220763 |

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