



**Product:** <u>89207</u> ☑

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

# **Product Description**

Twinax  $100\Omega$ , 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     | Таре              | 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**

### Attenuation

| Frequency | Nom. Attenuation |
|-----------|------------------|
| 1 MHz     | 0.30 dB/100m     |
| 10 MHz    | 1.20 dB/100m     |
| 50 MHz    | 2.80 dB/100m     |
| 100 MHz   | 4.10 dB/100m     |
| 200 MHz   | 6.40 dB/100m     |
| 300 MHz   | 8.40 dB/100m     |
| 400 MHz   | 10.20 dB/100m    |

# Electricals

| Nom. Conductor<br>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        | 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



### **Mechanical Characteristics**

#### Temperature

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

#### **Bend Radius**

| Installation Min. |
|-------------------|
| 3.0 in (76 mm)    |

| 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**

| Update and Revision: | Revision Number: 0.490 Revision Date: 02-15-2024 |
|----------------------|--|

# **Part Numbers**

### Variants

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

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