



REPRESENTATIVE IMAGE

Product: [9207](#)

100Ω Twinax, 1 Pr #20 Str-1c TC/1c BC, PE Jkt, Duofoil®+TC Braid, PVC Jkt, CMG

Product Description

Twinax 100Ω, 1 Pair, 20 AWG (7x28) one tinned copper, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) + a tinned copper braid shield (85% coverage), PVC outer jacket, CMG

Technical Specifications

Product Overview

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

Construction Details

Conductor

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

Insulation

| Material | Color Code | Nom. Diameter | Notes |
|-------------------|------------|---------------|-----------------------|
| PE - Polyethylene | Clear | 0.083 in | PE on both conductors |
| PE - Polyethylene | Clear | 0.236 in | PE over pair |

Inner Jacket Material

| Material |
|-------------------|
| PE - Polyethylene |

Outer Shield Material

| 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

| Material | Nom. Diameter |
|--------------------------|---------------|
| PVC - Polyvinyl Chloride | 0.330 in |

Electrical Characteristics

Attenuation

| Frequency | Nom. Attenuation [dB/100ft] |
|-----------|-----------------------------|
| 1 MHz | 0.30 dB/100ft |
| 10 MHz | 1.20 dB/100ft |
| 50 MHz | 2.80 dB/100ft |
| 100 MHz | 4.10 dB/100ft |
| 200 MHz | 6.40 dB/100ft |
| 400 MHz | 10.20 dB/100ft |

Electricals

| Nom. Conductor DCR | Nom. Outer Shield DCR | Nom. Capacitance Cond-to-Cond (Mutual) | Nom. Capacitance Cond-to-Shield | Nom. Impedance | Nom. Velocity |
|--------------------|-----------------------|--|---------------------------------|----------------|---------------|
| 9.5 Ohm/1000ft | 2.0 Ohm/1000ft | 14.5 pF/ft | 23.0 pF/ft | 100 Ohm | 66% |

Voltage

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

Mechanical Characteristics

Temperature

| UL Rating | Operating |
|-----------|----------------|
| 75°C | -30°C to +75°C |

Bend Radius

| Installation Min. |
|-------------------|
| 3.5 in |

| | |
|--------------------|---------------|
| Bulk Cable Weight: | 60 lbs/1000ft |
| Max. Pull Tension: | 112 lbs |

Standards and Compliance

| | |
|---------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Indoor |
| Sustainability: | CA Prop 65 |
| Flammability / Fire Resistance: | UL1685 FT4 Loading, FT4, FT4 |
| NEC / UL Compliance: | CL2, CMG |
| CEC / C(UL) Compliance: | CMG |
| European Directive Compliance: | EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE) |
| APAC Compliance: | China RoHS II (GB/T 26572-2011) |
| Other Standard Compliance(s): | IBM P/N 7362211 |
| Plenum Number: | 89207 |

History

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| Update and Revision: | Revision Number: 0.303 Revision Date: 09-30-2020 |
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