



**Part Number: 9207**

100Ω Twinax, #20-1c TC/1c BC, PO, Duofoil® + 86% TC Braid, CMG

**Product Description**

100 Ohm Twinax, IBM p/n 7362211, 20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) + a tinned copper braid shield (85% coverage), PVC outer jacket.

**Technical Specifications**

**Physical Characteristics (Overall)**

**Conductor**

| AWG | Stranding | Material           | Construction n x D | Nominal Diameter | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|--------------------|------------------|-------------------|--------------|
| 20  | 7x28      | TC - Tinned Copper | Stranded           | 0.037 in         | 1                 | 1            |
| 20  | 7x28 AWG  | BC - Bare Copper   | Stranded           |                  | 1                 |              |

|                  |        |
|------------------|--------|
| Conductor Count: | 2      |
| Conductor Size:  | 20 AWG |

**Insulation**

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.083 in         |

**Color Chart**

| Number | Color                             |
|--------|-----------------------------------|
| 1      | Natural (bare copper conductor)   |
| 2      | Natural (tinned copper conductor) |

**Inner Jacket Material**

| Material          | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.236 in         |

**Outer Shield Material**

| Type  | Layer | Material                    | Material Trade Name | Coverage [%] |
|-------|-------|-----------------------------|---------------------|--------------|
| Tape  | 1     | Aluminum/Polyester/Aluminum | Duofoil®            | 100 %        |
| Braid | 2     | TC - Tinned Copper          |                     | 85 %         |

**Outer Jacket Material**

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.33 in          |

**Electrical Characteristics**

**Conductor DCR**

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 9.5 Ohm/1000ft        | 1.74 Ohm/1000ft          | 1.74 Ohm/1000ft     |

**Capacitance**

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 14.5 pF/ft                              | 23 pF/ft  |

## Inductance

### Nominal Inductance

0.155 µH/ft

## Impedance

### Nominal Characteristic Impedance

100 Ohm

## High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.3 dB/100m         |
| 10 MHz          | 1.2 dB/100m         |
| 50 MHz          | 2.8 dB/100m         |
| 100 MHz         | 4.1 dB/100m         |
| 200 MHz         | 6.4 dB/100m         |
| 400 MHz         | 10.2 dB/100m        |

## Delay

| Max. Delay Skew | Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|-----------------|---------------|--|
| 66 ns/100m      | 1.54 ns/ft    | 66 %                                     |

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -30°C To +75°C |
|-----------------------|----------------|

## Mechanical Characteristics

|                                  |                  |
|----------------------------------|------------------|
| UV Resistance:                   | Yes - Black only |
| Bulk Cable Weight:               | 63 lbs/1000ft    |
| Max Recommended Pulling Tension: | 112 lbs          |
| Min Bend Radius/Minor Axis:      | 3.5 in           |

## Standards

|                                      |                 |
|--------------------------------------|-----------------|
| Customer Part Number Reference Spec: | IBM P/N 7362211 |
| NEC/(UL) Specification:              | CL2, CMG        |
| CEC/C(UL) Specification:             | CMG             |
| CPR Euroclass:                       | Eca             |

## Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01                    |
| CA Prop 65 (CJ for Wire & Cable):     | Yes                           |
| MII Order #39 (China RoHS):           | Yes                           |

## Suitability

|                                    |  |
|------------------------------------|--|
| Suitability - Aerial:              | Yes - Black only, when supported by messenger wire |
| Suitability - Burial:              | No   |
| Suitability - Hazardous Locations: | No   |
| Suitability - Indoor:              | Yes  |
| Suitability - Outdoor:             | Yes - Black only                                   |

## Flammability, LSOH, Toxicity Testing

|                    |                    |
|--------------------|--------------------|
| UL Flammability:   | UL1685 FT4 Loading |
| CSA Flammability:  | FT4                |
| UL voltage rating: | 300 V RMS          |

## Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 89207 |

## Part Number

### Variants

| Item #       | Color | Footnote |
|--------------|-------|----------|
| 9207 010100  | Black |          |
| 9207 0101000 | Black | C        |
| 9207 0101640 | Black | C        |
| 9207 0103280 | Black | C        |
| 9207 010500  | Black | C        |
| 9207 0105000 | Black | C        |
| 9207 010U500 | Black |          |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

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