



**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
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#### 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)
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#### 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 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

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 (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: 0.486 Revision Date: 05-31-2023
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## Part Numbers

### Variants

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

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