



REPRESENTATIVE IMAGE

**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

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
FEP - Fluorinated Ethylene Propylene	Clear	0.072 in	FEP on both conductors
FEP - Fluorinated Ethylene Propylene	Clear	0.201 in	FEP over pair

#### Inner Jacket Material

Material
FEP - Fluorinated Ethylene Propylene

#### 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
FEP - Fluorinated Ethylene Propylene	0.259 in

### Electrical Characteristics

#### Attenuation

Frequency	Nom. Attenuation [dB/100ft]
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. Impedance	Nom. Velocity
9.5 Ohm/1000ft	2.5 Ohm/1000ft	14.0 pF/ft	23.0 pF/ft	100 Ohm	70%

#### Voltage

UL Voltage Rating
300 V (CMP)

### Mechanical Characteristics

#### Temperature

UL Rating	Operating
200°C	-70°C to +200°C

#### Bend Radius

Installation Min.
3.0 in

Bulk Cable Weight:	52 lbs/1000ft
Max. Pull Tension:	88 lbs

### Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor
Sustainability:	CA Prop 65
Flammability / Fire Resistance:	NFPA 262, NFPA 262, FT6
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	9207

### History

Update and Revision:	Revision Number: 0.299 Revision Date: 09-30-2020
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