



**Product:** [89182](#)

150Ω Twinax, 1 Pr #22 Str TC, FFEP Ins, OA DF, FEP Jkt, CMP

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## Product Description

Twinax 150Ω, 1 Pair 22AWG (19x34) Tinned Copper, Foam FEP Insulation, Overall Duofoil® Shield, FEP Jacket, CMP

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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### Construction Details

#### Conductor

Element	Number of Element	Size	Stranding	Nom. Diameter	Material
Pair(s)	1	22 AWG	19x34	0.030 in	TC - Tinned Copper

#### Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Pair(s)	FEP - Fluorinated Ethylene Propylene (Foam)	0.130 in (3.30 mm)	Black & Yellow

#### Outer Shield

Layer	Outer Shield Type	Material	Material Trade Name	Coverage
1	Tape	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%

#### Outer Jacket

Material	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	0.307 in (7.80 mm)

Overall Cable Diameter (Nominal):	0.307 in (7.80 mm)
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### Electrical Characteristics

#### Attenuation

Frequency	Nom. Attenuation
1 MHz	0.40 dB/100ft
10 MHz	1.20 dB/100ft
50 MHz	2.70 dB/100ft
100 MHz	4.30 dB/100ft
200 MHz	6.20 dB/100ft
400 MHz	8.80 dB/100ft

#### Electricals

Element	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.
Pair(s)	14.0 Ohm/1000ft (45.9 Ohm/km)	6.3 Ohm/1000ft (21 Ohm/km)	8.8 pF/ft (29 pF/m)	16.5 pF/ft (54.1 pF/m)	150 Ohm	78%

#### Voltage

UL Voltage Rating
300 V (CMP)

## Mechanical Characteristics

### Temperature

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

### Bend Radius

Stationary Min.	Installation Min.
6.25 in (159 mm)	2.5 in

Max. Pull Tension:	28 lbs (13 kg)
Bulk Cable Weight:	48.7 lbs/1000ft (72.5 kg/km)

## Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	Article 725, Article 800, CL2P, 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)
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	9182

## Product Notes

Notes:	Cable contains fillers for better electrical performance.
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## History

Update and Revision:	Revision Number: 0.364 Revision Date: 12-15-2021
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### Variants

Item #	Color	Putup Type	Length	UPC
89182 010500	Black	Reel	500 ft	612825220145
89182 0101000	Black	Reel	1,000 ft	612825220138
89182 0105000	Black	Reel	5,000 ft	612825220152
89182 0085000	Gray	Reel	5,000 ft	612825220114

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