



Product: [89182](#)

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

[Request Sample](#)

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

Size	Stranding	Nom. Diameter	Material
22 AWG	19x34	0.030 in	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
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	1.10 dB/100ft
50 MHz	2.75 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	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 RMS (CL2P, 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 (64 mm)

Max. Pull Tension:	28 lbs (13 kg)
Bulk Cable Weight:	49 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor - Plenum, Indoor, Outdoor, Aerial - When supported by messenger wire, Burial
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	NFPA 262
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
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: 0.522 Revision Date: 02-15-2024
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Part Numbers

Variants

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

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