



Product: [9182](#) 

150Ω Twinax, 1 Pr #22 Str TC, FPE Ins, OA Duofoil®, PVC Jkt, CMX

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Product Description

Twinax 150Ω, 1 Pair 22AWG (19x34) Tinned Copper, Foam PE Insulation, Overall Duofoil® Shield, PVC Outer Jacket, CMX

Technical Specifications

Product Overview

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

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)	PE - Polyethylene (Foam)	0.134 in (3.40 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
PVC - Polyvinyl Chloride	0.345 in (8.76 mm)

Overall Cable Diameter (Nominal): 0.345 in (8.76 mm)

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 (CMX)

Mechanical Characteristics

Temperature

UL Temperature	Operating
60°C	-20°C to +60°C

Bend Radius

Stationary Min.	Installation Min.
6.0 in (150 mm)	2.5 in

Max. Pull Tension:	28 lbs (13 kg)
Bulk Cable Weight:	41 lbs/1000ft (61 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1, FT1
NEC / UL Compliance:	Article 725, Article 800, CL2X, CMX
AWM Compliance:	AWM 2668
CEC / C(UL) Compliance:	CMX
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)
Plenum Number:	89182

Product Notes

Notes:	Cable contains fillers for better electrical performance.
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History

Update and Revision:	Revision Number: 0.348 Revision Date: 12-15-2021
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Variants

Item #	Color	Putup Type	Length	UPC
9182 010500	Black	Reel	500 ft	612825225126
9182 010U500	Black	Reel	500 ft	612825225102
9182 0101000	Black	Reel	1,000 ft	612825225119
9182 0105000	Black	Reel	5,000 ft	612825225133

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