

Product: 9182

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

Request Sample

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	No. of Elements	Size	Stranding	Nom. Diameter	Material
Pair(s)	2	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	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)	3.5 in (89 mm)

Max. Pull Tension:	28 lbs (13 kg)
Bulk Cable Weight:	40 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor - Black only, Sunlight Resistance, Aerial - Black only, When supported by messenger wire
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	VW-1, FT1
CPR Compliance:	CPR Euroclass: Eca
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)
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	89182

Product Notes

Notes:	Cable contains fillers for better electrical performance.

History

Update and Revision:	Revision Number: 0.521 Revision Date: 02-03-2025

Part Numbers

Variants

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

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