

Product: 9860

Twinax 124Ω, 1 Pr #16 Sol BC, PO Ins, OA DF+TC Brd, PVC Jkt, CMX

Request Sample

Product Description

Twinax 124Ω, 1 Pair 16AWG (Solid) Bare Copper, PO Insulation, Overall Duofoil®+Tinned Copper Braid(90%) Shield, PVC Outer Jacket, CMX

Technical Specifications

Product Overview

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

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
16	Solid	BC - Bare Copper	0.051 in	1

Conductor Count:	2

Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.161 in

Color Chart

Number	Color
1	Blue & Clear

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duofoil®	100%
Braid	2	Tinned Copper (TC)		90%

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.44 in	0.045 in

Construction and Dimensions

Stranding

Diameter
0.322 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
4.2 Ohm/1000ft	1.3 Ohm/1000ft	1.3 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield

10.9 pF/ft	19.3 pF/ft	10.9 pF/ft

Inductance

Element	Nominal Inductance
(Loop)	(Loop) 0.24 µH/ft

Impedance

Nominal Characteristic Impedance
124 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.2 dB/100m
10 MHz	0.7 dB/100m
50 MHz	1.8 dB/100m
100 MHz	2.9 dB/100m
200 MHz	4.1 dB/100m
400 MHz	6.2 dB/100m

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
78 ns/100m	1.3 ns/ft	78%

High Frequency

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V RMS (CM)	AWM style 2448: 30 V RMS
300 V RMS (CMX)	

Temperature Range

UL Temperature Rating:	60°C
Operating Temperature Range:	-20°C To +60°C

Mechanical Characteristics

Bulk Cable Weight:	98 lbs/1000ft
Maximum Recommended Pulling Tension:	73 lbs
Minimum Minor Axis Bend Radius:	4.5 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMX
CEC/C(UL) Compliance:	CMX
UL AWM Style Compliance:	AWM 2448
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LS0H, Toxicity Testing

UL Flammability:	VW-1
UL voltage rating:	300 V RMS (CM)

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	UPC
9860 010500	Black	Reel	500 ft	612825259725
9860 0101000	Black	Reel	1,000 ft	612825259701
9860 0102000	Black	Reel	2,000 ft	612825259718

Footnote:	C - CRATE REEL PUT-UP.

History

Update and Revision:	Revision Number: 0.487 Revision Date: 02-03-2025

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