



## **Product Description**

Twinax, 77 ohm, 24 AWG stranded (19x36) .024" silver-coated high-strength copper alloy conductor, TFE insulation, silver-coated high strength copper alloy braid shield (93% coverage), PFA jacket, commercial non-QPL product

### **Technical Specifications**

#### **Physical Characteristics (Overall)**

Condu	Conductor				
AWG	Stranding	Material		Nominal Diameter	No. of Pairs
24	19x36	SHSCA - Silver Coated High Streng	gth Copper Alloy	0.024 in	1
Condu	uctor Count:	2			
Insulat	ion				
	Materia	I Material Trade Name	Nominal Diame	eter	
PTFE	- Polytetraflu	loroethylene Teflon®	0.042 in		
Outer	Shield				
Туре		Material	Coverage [%]		
Braid	Braid Silvered High Strength Copper Alloy (SHSCA) 93%				
Outer .	lookot				
	Material	Nominal Diameter			
	PFA - Perfluoroalkoxy 0.129 in				
Elect	rical Cha	racteristics			
Condu	ctor DCR				
Nomi	Nominal Outer Shield DCR Outer Conductor DCR				
7.3 OI	7.3 Ohm/1000ft 7.3 Ohm/1000ft				
Capaci	itance				
	Max. Capacitance Unbalance Max. Mutual Capacitance Nom. Capacitance Conductor to Shield				
5 pF/f	t	24 pF/ft	24.0 pF/ft		
	nductance				
Induct					
	ance nal Inductan				

#### Impedance

Nominal Characteristic Impedance
77 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.2 dB/100ft
10 MHz	4.0 dB/100ft

50 MHz	9.2 dB/100ft
100 MHz	13.0 dB/100ft
200 MHz	18.4 dB/100ft
400 MHz	26.1 dB/100ft
700 MHz	34.6 dB/100ft
900 MHz	39.3 dB/100ft
1000 MHz	41.4 dB/100ft

#### Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
70 ns/100m	1.45 ns/ft	70%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	1.4 dB/100ft

#### Voltage

UL Voltage Rating
150 V RMS

#### **Temperature Range**

UL Temp Rating:	200°C
Operating Temp Range:	-55°C To +200°C

## **Mechanical Characteristics**

Bulk Cable Weight:	15 lbs/1000ft
Max. Pull Tension:	12 lbs
Min. Bend Radius/Minor Axis:	1.5 in

## Standards

NEC/(UL) Compliance:	CL2P
CPR Euroclass:	Eca
Military Compliance:	Commercial, non-QPL product (M17/176-00002, MIL-STD-1553 Data Bus Cable)

## Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	No
EU Directive 2011/65/EU (RoHS 2):	No
EU Directive 2012/19/EU (WEEE):	No
EU Directive 2015/863/EU (RoHS 2 amendment):	No
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No

## Suitability

Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes

# Flammability, LS0H, Toxicity Testing

UL Flammability:	NFPA 262
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	150 V RMS

# Plenum/Non-Plenum

Plenum (Y/N):	Yes

# Part Number

Item #	Color	Put-Up Type	Length	UPC
81553 006500	Blue	Reel	500 ft	612825195559