



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	ictor					
AWG			Material		Nominal Diameter	
24	19x36	SHSCA - Si	Iver Coated High Streng	th Copper Alloy	0.024 in	1
Condu	uctor Count:		2			
Insulat	tion					
	Materia	ıl	Material Trade Name	Nominal Diam	neter	
PTFE	- Polytetraflu	uoroethylene	Teflon®	0.042 in		
	Shield Mater					
Туре		Mater		Coverage [%]		
Braid	Silvered Hig	gh Strength C	opper Alloy (SHSCA)	93%		
Outer .	Jacket Mate	rial				
	Material	Nomina	l Diameter			
PFA -	Perfluoroalk	oxy 0.129 in				
Electrical Characteristics						
Condu	ctor DCR					
Nomi	Nominal Outer Shield DCR Outer Conductor DCR					
7.3 Oł	hm/1000ft	7	.3 Ohm/1000ft			
•	Capacitance					
		Unbalance	Max. Mutual Capacita			r to Shield
5 pF/f	t		24 pF/ft	24.0 pF/ft		
nductance						
Nomi	Nominal Inductance					
0.118	0.118 μH/ft					
	npedance					
	Nominal Characteristic Impedance					
77 Oh	nm					

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 Freq

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 II):	No
EU Directive 2012/19/EU (WEEE):	No
EU Directive 2015/863/EU:	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

Variants

Item #	Color	Putup Type	Length	UPC
81553 006500	Blue	Reel	500 ft	612825195559
81553 0061000	Blue	Reel	1,000 ft	612825195542

Footnote:	F - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 50'.
Footnote:	Z - FINAL PUT-UP MAY VARY (= OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.
History	

Update and Revision:	Revision Number: 0.287 Revision Date: 09-30-2020

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