



**81553 Twinax - Twinax**

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p>
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**Description:**

Twinax, 24 AWG stranded (19x36) .024" silver-coated high-strength copper alloy conductor, TFE Teflon® insulation, SC high strength CA braid shield (93% coverage), PFA jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Pairs	1
Total Number of Conductors	2
AWG	24
Stranding	19x36
Conductor Diameter	.024 in.
Conductor Material	SCHSCA - Silver Coated High Strength Copper Alloy

**INSULATION:**

Insulation Material Trade Name	Teflon®
Insulation Material	TFE - Tetrafluoroethylene
Insulation Diameter	.084 in.

**OUTER SHIELD:**

Outer Shield Type	Braid
Outer Shield Material	SCHSCA - Silver-Coated High Strength Copper Alloy
Outer Shield % Coverage	93 %

**OUTER JACKET:**

Outer Jacket Material	PFA
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**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.129 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-55°C To +200°C
UL Temperature Rating	200°C
Bulk Cable Weight	15 lbs/1000 ft.
Max. Recommended Pulling Tension	12 lbs.
Min. Bend Radius (Install)	2.5 in.



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### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

NEC/(UL) Specification	CL2P
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
Military Specification	MIL-C-17 M17/176-00002, MIL-STD-1553 DATA BUS CABLE

#### FLAME TEST:

UL Flame Test	NFPA 262
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#### PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
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#### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	77 Ohms
Nom. Inductance	.118 $\mu$ H/ft
Max. Mutual Capacitance @ 1 KHz	24.0 pF/ft
Maximum Capacitance Unbalanced :	

Description	Maximum Capacitance Unbalanced (%)
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Nominal Velocity of Propagation	70 %
Nominal Delay	1.62 ns/ft
Nominal Outer Shield DC Resistance	7.3 Ohms/1000 ft

#### Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			1.2
	10			4.0
	50			9.2
	100			13.0
	200			18.4
	400			26.1
	700			34.6
	900			39.3
	1000			41.4

#### Max. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	1			1.4

Max. Operating Voltage - UL	150 V RMS
Max. Operating Voltage - Other	750 V RMS (Military)



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**NOTES:**

Notes	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
81553 0061000	2#24 TFE BRD PFA	1000	16	BLUE, LIGHT	C E
81553 006500	2#24 TFE BRD PFA	500	9	BLUE, LIGHT	C E

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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