## **Detailed Specifications & Technical Data**

### METRIC MEASUREMENT VERSION



81553 Twinax - Twinax

For more Information please call

1-800-Belden1

### **General Description:**

Capacitance (pF/m)

Maximum Capacitance Unbalance: Description Capacitance (pF/m)

78.744

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 (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material Dia. (mm) SCHSCA - Silver Coated High Strength Copper Alloy | 0.6096 **Total Number of Conductors:** 2 Insulation Insulation Material: Insulation Trade Name Insulation Material TFE - Tetrafluoroethylene | 0.229 **Outer Shield Outer Shield Material:** Type Outer Shield Material Braid | SCHSCA - Silver-Coated High Strength Copper Alloy | 93 **Outer Jacket Outer Jacket Material:** Outer Jacket Material Nom. Wall Thickness (mm) **Overall Cable Overall Nominal Diameter:** 3.277 mm **Mechanical Characteristics (Overall) Operating Temperature Range:** -55°C To +200°C **UL Temperature Rating:** 200°C **Bulk Cable Weight:** 22.323 Kg/Km 53.378 N Max. Recommended Pulling Tension: Min. Bend Radius/Minor Axis: 38.100 mm Applicable Specifications and Agency Compliance (Overall) **Applicable Standards & Environmental Programs** NEC/(UL) Specification: CL2P EU Directive 2002/95/EC (RoHS): Nο Military Specification: MIL-C-17, M17/176-00002, MIL-STD-1553 DATA BUS CABLE Flame Test **UL Flame Test:** NFPA 262 Plenum/Non-Plenum Plenum (Y/N): Yes **Electrical Characteristics (Overall)** Nom. Characteristic Impedance: Impedance (Ohm) Nom. Inductance: Inductance (µH/m) 0.387158 Max. Mutual Capacitance:

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81553 Twinax - Twinax

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Nominal Velocity of Propagation:

70

Nominal Delay:

5.31522

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 23.9513

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	3.9372
10	13.124
50	30.1852
100	42.653
200	60.3704
400	85.6341
700	113.523
900	128.943
1000	135.833

Max. Attenuation:

Description Fre	eq. (MHz) Start Fred	q. (MHz) Stop Freq.	(MHz) Attenuation (dB/100n	1)
1			4.5934	٦

Max. Operating Voltage - UL:



### Notes (Overall)

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

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
81553 0061000	1,000 FT	18.000 LB	BLUE, LIGHT	FZ	2#24 TFE BRD PFA
81553 006500	500 FT	9.000 LB	BLUE, LIGHT	FZ	2#24 TFE BRD PFA

### Notes:

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

Revision Number: 3 Revision Date: 11-05-2012

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