

9859 Twinax - Twinax

For more Information  
please call

1-800-Belden1

**Description:**

Twinax, 20 AWG Stranded (7x28) .038" tinned copper conductor, polyethylene insulation, tinned copper braid shield (85% coverage), non-contaminating PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	7x28	TC - Tinned Copper	.038

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
PE - Polyethylene	.158

**Outer Shield****Outer Shield Material:**

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

**Overall Cable**

<b>Overall Nominal Diameter:</b>	0.235 in.
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**Mechanical Characteristics (Overall)**

<b>Operating Temperature Range:</b>	-40°C To +85°C
<b>Non-UL Temperature Rating:</b>	85°C
<b>Bulk Cable Weight:</b>	35 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	58 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	2.500 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

<b>EU CE Mark:</b>	No
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	10/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes

Military Specification:	MIL-C-17G M17/45-RG108
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RG Type:	108/U
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

78

**Nom. Inductance:**

Inductance (μH/ft)

.119

**Nom. Capacitance Conductor to Conductor:**

Capacitance (pF/ft)

19.7

**Nom. Capacitance Cond. to Other Conductor & Shield:**

Capacitance (pF/ft)

45.1

**Nominal Velocity of Propagation:**

VP (%)

66

**Nominal Delay:**

Delay (ns/ft)

1.54

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

9.5

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

5.3

**Nom. Attenuation:**

Freq. (MHz) Attenuation (dB/100 ft.)

1	.7
10	2.3
50	5.2
100	7.5
200	11.0
400	16.0

**Max. Operating Voltage - Non-UL:**

Voltage

750 V RMS

**Notes (Overall)**

**Notes:** One conductor has a bare copper strand for identification.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9859 0101000	1,000 FT	33.000 LB	BLACK		M17/45-RG108 TWINAX

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