

9859 Twinax - Twinax

For more Information
please call

1-800-Belden1



General 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. (mm)
1	20	7x28	TC - Tinned Copper	0.9652

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.533

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVCNC - Polyvinyl Chloride Non-Contaminating	0.711

Overall Cable

Overall Nominal Diameter: 5.969 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +85°C

Non-UL Temperature Rating: 85°C

Bulk Cable Weight: 44.646 Kg/Km

Max. Recommended Pulling Tension: 257.996 N

Min. Bend Radius/Minor Axis: 63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 10/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Military Specification:	MIL-DTL-17, M17/45-RG108
RG Type:	108/U

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

78

Nom. Inductance:

Inductance (µH/m)

0.390439

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

64.6357

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

147.973

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.1695

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

17.3893

Nom. Attenuation:

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

1	2.2967
10	7.5463
50	17.0612
100	24.6075
200	36.091
400	52.496

Max. Operating Voltage - Non-UL:

Voltage

750 V RMS

Notes (Overall)

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

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

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

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