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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

## 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

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