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please call

1-800-Belden1

## General Description:

100 Ohm twinaxial cable, 20AWG stranded (7x28) one tinned, one bare copper conductor, FEP insulation, overall FEP dielectric, Duofoil® + tinned copper braid shield 85%, FEP jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	7x28	TC - Tinned Copper	0.9398
			BC - Bare Copper	

Total Number of Conductors: 2

### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.432

### Inner Jacket

Inner Jacket Material:

Inner Jacket Trade Name	Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.533	5.105

### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	85

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.381

### Overall Cable

Overall Nominal Diameter: 6.579 mm

### Pair

Pair Color Code Chart:

Number	Color
1	Natural (bare conductor)
2	Natural (tinned conductor)

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 77.386 Kg/Km

Max. Recommended Pulling Tension: 391.442 N

Min. Bend Radius/Minor Axis: 69.850 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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

### Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

### Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 9207

## Electrical Characteristics (Overall)

**Nom. Characteristic Impedance:**

**Impedance (Ohm)**  
100

**Nom. Inductance:**

**Inductance (µH/m)**  
0.508555

**Nom. Capacitance Conductor to Conductor:**

**Capacitance (pF/m)**  
45.934

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

**Capacitance (pF/m)**  
75.463

**Nominal Velocity of Propagation:**

**VP (%)**  
69.5

**Nominal Delay:**

**Delay (ns/m)**  
4.62621

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
31.1695

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/km)**  
8.2025

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	3.9372
50	9.1868
100	13.4521
200	20.9984
300	27.5604
400	33.4662

**Max. Operating Voltage - UL:**

**Voltage**  
300 V RMS

## 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
89207 010100	100 FT	6.700 LB	BLACK	C	2#20 FEP FEP SH FEP
89207 0101000	1,000 FT	55.000 LB	BLACK	C	2#20 FEP FEP SH FEP
89207 010500	500 FT	27.500 LB	BLACK	C	2#20 FEP FEP SH FEP

**Notes:**

C = CRATE REEL PUT-UP.

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