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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

### 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	30 MT	3.039 KG	BLACK	C	2#20 FEP FEP SH FEP
89207 0101000	305 MT	24.948 KG	BLACK	C	2#20 FEP FEP SH FEP
89207 010500	152 MT	12.474 KG	BLACK	C	2#20 FEP FEP SH FEP

**Notes:**

C = CRATE REEL PUT-UP.

## Test Reports

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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