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1-800-Belden1



## Description:

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® + tinned copper braid shield (85% coverage), inner PVC jacket, overall PVC jacket with ripcord.

## Usage (Overall)

**Suitable Applications:** Central Office wiring for DS3 transmissions.

## Physical Characteristics (Overall)

### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
6	20	Solid	SPC - Silver Plated Copper	0.032

### Insulation

**Insulation Material:**

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	0.148

### Inner Shield

**Inner Shield Material:**

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

### Inner Jacket

**Inner Jacket Material:**

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	0.235

### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Outer Jacket Ripcord:** Yes

## Overall Cable

**Overall Nominal Diameter:** 0.777 in.

## Mechanical Characteristics (Overall)

**Operating Temperature Range:** -40°C To +75°C

**Bulk Cable Weight:** 180 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 362 lbs.

**Min. Bend Radius (Each Coax):** 2.400 in.

Min. Bend Radius (Overall): 7.750 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/17/2007
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
Other Specification:	Telcordia Specification GF-139-CORE; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
C(UL) Flame Test:	FT4

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/ft)

0.097

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

16.800

### Nominal Velocity of Propagation:

VP (%)

80.000

### Nominal Delay:

Delay (ns/ft)

1.270

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.000

### Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.400

### Max. Attenuation:

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

1.000	0.280
5.000	0.590
10.000	0.800
22.500	1.180
50.000	1.820
100.000	2.600
150.000	3.220

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 ohm fixed bridge and termination.

**Other Electrical Characteristic 2:** RL tested in accordance with ASTM D-4566 paragraph 50.3, using a 75 ohm fixed bridge and termination.

**Other Electrical Characteristic 3:** 100% sweep tested.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	150.000	32.000

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
734C6 0081000	1,000 FT	275.000 LB	GRAY	C	6#20LDPE/GIFHDLDPESHFRPVCFRPVC
734C6 0082000	2,000 FT	576.000 LB	GRAY	C	6#20LDPE/GIFHDLDPESHFRPVCFRPVC

**Notes:**

C = CRATE REEL PUT-UP.

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