

## 734C3 Coax - 734C Series

For more Information  
please call

1-800-Belden1



### Description:

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (85% coverage), inner PVC jacket, overall PVC jacket with ripcord. Multiple coaxes feature inner PVC jackets with printed numbers for circuit ID.

### Usage (Overall)

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

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
3	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:** 0.588 in.

### Mechanical Characteristics (Overall)

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

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 135 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 180 lbs.

Min. Bend Radius (Each Coax):	2.400 in.
Min. Bend Radius (Overall):	5.900 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): 10/09/2007

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

## 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:**

Voltage
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
734C3 0081000	1,000 FT	149.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC
734C3 0083000	3,000 FT	477.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC
734C3 0085000	5,000 FT	815.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC

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