

## 734C3 Coax - 734C Series

For more Information  
please call

1-800-Belden1

**General 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

Total Number of Conductors: 3

**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:	136 lbs/1000 ft.
Max. Recommended Pulling Tension:	180 lbs.
Min. Bend Radius (Each Coax):	2.500 in.
Min. Bend Radius (Overall):	6 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC(UL) Specification: CMR

CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
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
CSA Flame Test:	FT4

**Suitability**

Suitability - Indoor:	Yes
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**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:**

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
734C3 0081000	1,000 FT	149.000 LB	GRAY		3#20LDPE/GIFHDLPESHFRPVCFRPVC
734C3 0083000	3,000 FT	447.000 LB	GRAY		3#20LDPE/GIFHDLPESHFRPVCFRPVC
734C3 0085000	5,000 FT	765.000 LB	GRAY		3#20LDPE/GIFHDLPESHFRPVCFRPVC

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