

734C8 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® + 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.)
8	20	Solid	SPC - Silver Plated Copper	.032

Total Number of Conductors: 8

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.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: 0.860 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 483 lbs.

Min. Bend Radius (Each Coax): 2.500 in.

Min. Bend Radius (Overall): 8.500 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):	04/09/2007
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 GR-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)
.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.8

Nominal Velocity of Propagation:

VP (%)
80

Nominal Delay:

Delay (ns/ft)
1.27

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
	2.4

Max. Attenuation:

Attenuation (DS3/4) (dB/100 ft.)	Freq. (MHz)	Attenuation (dB/100 ft.)
0	1.000	0.280
0	5.000	0.590
0	10.000	0.800
0	22.500	1.180
0	50.000	1.820
0	100.000	2.600
0	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:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	150	32

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
734C8 0081000	1,000 FT	70.000 LB	GRAY	C	8#20LDPE/FHOLDPE SH FRPVCFRPVC
734C8 0082000	2,000 FT	146.000 LB	GRAY	C	8#20LDPE/FHOLDPE SH FRPVCFRPVC

Notes:

C = CRATE REEL PUT-UP.

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