

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

**734D1P Coax - 734D Series**



For more Information  
please call

1-800-Belden1



## General Description:

20 AWG solid .032" (.81mm) silver-plated copper conductor(s), foam, foam FEP insulation, Beldfoil® + tinned copper braid shield (85% coverage), Flamarrest® jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	20	Solid	SPC - Silver Plated Copper	.032

Total Number of Conductors:

1

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FFEP - Foam Fluorinated Ethylene Propylene	.148

### Outer Shield

Outer Shield Material:

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

### Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

## Overall Cable

Overall Nominal Diameter: 0.215 in.

## Mechanical Characteristics (Overall)

Operating Temperature Range:	0°C To +75°C
Bulk Cable Weight:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	52 lbs.
Min. Bend Radius/Minor Axis:	2 in.

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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

### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

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### Suitability

Suitability - Indoor:	Yes
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### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	734D1

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)
75

#### Nom. Inductance:

Inductance (pH/ft)
.095

#### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
17.3

#### Nominal Velocity of Propagation:

VP (%)
80

#### Nominal Delay:

Delay (ns/ft)
1.27

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
10

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.4

#### Max. Operating Voltage - UL:

Voltage
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 OHM fixed bridge and termination.

**Other Electrical Characteristic 2:** RL tested in accordance with ASTM D-4566 paragraph 45.2, option 2 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)
		15	95	30

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
734D1P 0081000	1,000 FT	36.000 LB	GRAY	C	#20 FPFA SH FLRST
734D1P 008500	500 FT	18.000 LB	GRAY	C	#20 FPFA SH FLRST

#### Notes:

C = CRATE REEL PUT-UP.

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