

## 735A1 Coax - 735A\* Series

For more Information  
please call

1-800-Belden1

**General Description:**

26 AWG solid .016" (.40mm) silver-plated copper conductor(s), foam HDPE insulation, Beldfoil® + tinned copper braid shield (93% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	26	Solid	SPC - Silver Plated Copper	.016

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	.077

**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	93

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 0.129 in.

**Mechanical Characteristics (Overall)**

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

Bulk Cable Weight: 12 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 lbs.

Min. Bend Radius/Minor Axis: 1.250 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): 01/01/2004

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
Other Specification:	Telcordia Specification GR-139-CORE.

**Flame Test**

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

**Suitability**

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only.
Suitability - Aerial:	Yes - Black only, when supported by messenger wire.

**Plenum/Non-Plenum**

Plenum (Y/N):	No
Plenum Number:	735A1P

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)

75

**Nom. Inductance:**

Inductance (μH/ft)

.19

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)

17.7

**Nominal Velocity of Propagation:**

VP (%)

76

**Nominal Delay:**

Delay (ns/ft)

1.34

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

41

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

5.3

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
1.000	0.600
1.024	0.610
4.224	1.100
5.000	1.200
10.000	1.700
17.184	2.200
22.368	2.500
25.920	2.700
44.736	3.600
50.000	3.800
69.632	4.500

77.760	4.800
100.000	5.500
200.000	7.800

**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:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		15	90	30

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
735A1 0081000	1,000 FT	13.000 LB	GRAY		#26 LDPE/FHDPE SH PVC
735A1 008500	500 FT	6.500 LB	GRAY		#26 LDPE/FHDPE SH PVC

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