


**Product:** [735A1](#) 

DS-3 and DS-4, 735\* Series, #26-1 SPC Coax, CMR/CMG



## Product Description

26 AWG solid .016" (.40mm) silver-plated copper conductor(s), foam HDPE insulation, Beldfoil®; tinned copper braid shield (95% coverage), PVC jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
26	Solid	SCCS - Silvered Copper Covered Steel	0.016 in	1

Conductor Count:	1
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#### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

#### Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%
Braid	2	Tinned Copper (TC)		95%

#### Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.129 in

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
41 Ohm/1000ft	41 Ohm/1000ft	5.3 Ohm/1000ft	5.3 Ohm/1000ft

#### Capacitance

Nom. Capacitance Conductor to Shield
17.7 pF/ft

#### Inductance

Nominal Inductance
0.19 µH/ft

#### Impedance

Nominal Characteristic Impedance
75 Ohm

#### Return Loss (RL)

Frequency [MHz]	Minimum Return (RL)
15-90 dB	30 dB

## Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.34 ns/ft	76%

## High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	0.6 dB/100ft
1.024 MHz	0.61 dB/100ft
4.224 MHz	1.1 dB/100ft
5 MHz	1.2 dB/100ft
10 MHz	1.7 dB/100ft
17.184 MHz	2.2 dB/100ft
22.368 MHz	2.5 dB/100ft
25.92 MHz	2.7 dB/100ft
44.736 MHz	3.6 dB/100ft
50 MHz	3.8 dB/100ft
69.632 MHz	4.5 dB/100ft
77.76 MHz	4.8 dB/100ft
100 MHz	5.5 dB/100ft
200 MHz	7.8 dB/100ft

## Voltage

UL Voltage Rating
300 V RMS

## Temperature Range

Operating Temp Range:	-40°C To +75°C
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## Mechanical Characteristics

Bulk Cable Weight:	12 lbs/1000ft
Max. Pull Tension:	25 lbs
Min Bend Radius/Minor Axis:	1.25 in

## Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
CPR Euroclass:	Eca
RG Type:	Mini 59
Other Compliance:	Telcordia Specification GR-139-CORE.

## Applicable Environmental and Other Programs

Environmental Space:	Indoor - Riser
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
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## Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1666 Vertical Shaft
CSA Flammability:	FT4
IEC Flammability:	IEC 60332-1-2

UL voltage rating:	300 V RMS
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### Plenum/Non-Plenum

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

### Part Number

#### Variants

Item #	Color	Putup Type	Length	UPC
735A1 008500	Gray	Reel	500 ft	612825184720
735A1 0081000	Gray	Reel	1,000 ft	612825184676

### History

Update and Revision:	Revision Number: 0.291 Revision Date: 09-30-2020
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