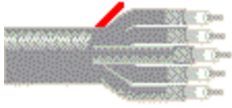




Product: [735A16](#)



DS-3 and DS-4, 735\* Series, #26-16 SPC Coax, CMR/CMG

### Product Description

26 AWG solid .016" 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	16

Conductor Count:	16
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##### Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

##### Inner Shield

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

##### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.129 in

##### Outer Shield

Material
No Shield

##### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.636 in	Yes

#### 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)

5-200 MHz 30 dB

## Delay

### Nominal Delay Nominal Velocity of Propagation (VP) [%]

1.34 ns/ft 76%

## High Frequency

### 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
137.088 MHz	6.4 dB/100ft
200 MHz	7.8 dB/100ft

## Voltage

### UL Voltage Rating

300 V RMS

## Temperature Range

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

## Mechanical Characteristics

Bulk Cable Weight:	239 lbs/1000ft
Max. Pull Tension:	400 lbs
Min Bend Radius (Overall):	6.5 in
Min Bend Radius (Each Coax):	1.25 in

## Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Mini 59
Other Specification:	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 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
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
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
735A16 008500	Gray	Reel	500 ft	612825184683
735A16 0081000	Gray	Reel	1,000 ft	612825184751

Footnote:	C - CRATE REEL PUT-UP.
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## History

Update and Revision:	Revision Number: 0.349 Revision Date: 11-09-2022
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