


Product: [735A1T](#) 



DS-3 and DS-4, 735A Series, 26 AWG SPC Coax, Siamese Tracer, CMR/CMG

Product Description

735A Series, 26 AWG Solid .016" (.40mm) silver-plated copper conductor(s), foam HDPE insulation, Beldfoil® + tinned copper braid shield (95% coverage), CMR rated, PVC jacket. PVC insulated tracer wire in Siamese (Figure 8) configuration.

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
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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 x 0.203 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
41 Ohm/1000ft	5.3 Ohm/1000ft	7 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)
15-95 MHz	30 dB

Delay

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

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]
1 MHz	0.6 dB/100ft	30 dB
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

Electrical Characteristics Notes:	Return Loss: Fixed bridge and termination
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Temperature Range

Operating Temp Range:	-20°C To +75°C
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Mechanical Characteristics

Bulk Cable Weight:	13 lbs/1000ft
Max. Pull Tension:	25 lbs
Min Bend Radius/Minor Axis:	1.3 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Sub-miniature 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 RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LSOH, 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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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
735A1T 008500	Gray	Reel	500 ft	612825184768
735A1T 0081000	Gray	Reel	1,000 ft	612825184713

History

Update and Revision:	Revision Number: 0.208 Revision Date: 02-16-2021
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