

Product: [735AS6P](#) 



DS-3 and DS-4, 735A Series, 6 Coax 26 AWG SPC, CMP

Product Description

735A Series, 6 Coax 26 AWG solid silver plated copper conductors, foam FEP insulation, Beldfoil® shield (100% coverage) plus a tinned copper braid shield (95% coverage), Flamarrest® individual jackets in a banana peel construction.

Technical Specifications

Product Overview

Suitable Applications:	DS3, DS4
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
26	Solid	SCCS - Silvered Copper Covered Steel	0.016 in	6

Conductor Count:	6
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Insulation

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene (Foam)	Teflon®	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	Material Trade Name	Nominal Diameter
PVC - Polyvinyl Chloride	Flamarrest®	0.129 in

Outer Jacket

Material	Nominal Diameter
Banana Peel (No Overall Jacket)	0.405 in

Electrical Characteristics

Conductor DCR

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

Capacitance

Nom. Capacitance Conductor to Shield
17.5 pF/ft

Inductance

Nominal Inductance
0.097 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 Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	0.60 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

Non-UL Temp Rating:	75°C
UL Temp Rating:	60°C
Operating Temp Range:	0°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	97 lbs/1000ft
Max. Pull Tension:	108 lbs
Min Bend Radius (Overall):	4.1 in
Min Bend Radius (Each Coax):	1.6 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Plenum
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

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Suitability - Aerial:	No
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	No

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	735A6
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Variants

Item #	Color	Put-Up Type	Length	UPC
735AS6P 008500	Gray	Reel	500 ft	612825184874
735AS6P 0081000	Gray	Reel	1,000 ft	612825184652

History

Update and Revision:	Revision Number: 0.161 Revision Date: 12-15-2021
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