



Product: [735C1](#)

DS-3 and DS-4, 735C* Series, #25H-1 SPC Coax, CMR/CMG



Product Description

25H AWG solid .017" silver-plated copper conductors, foam HDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (95% coverage), inner PVC jackets, overall PVC jacket

Technical Specifications

Product Overview

Suitable Applications:	Central Office wiring for DS3 transmissions
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Coax
25	Solid	SCCS - Silvered Copper Covered Steel	0.017 in	1
Conductor Count:		1		

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

Inner Shield				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond®	100%
Braid	2	Tinned Copper (TC)		95%
Table Notes:		Tape bonded to dielectric		

Outer Jacket		
Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.134 in	Yes

Electrical Characteristics

Conductor DCR				
Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
40 Ohm/1000ft	40 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)
5-150 MHz	32 dB

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.29 ns/ft	79%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)
5 MHz	1.1 dB/100ft
10 MHz	1.5 dB/100ft
22.5 MHz	2.3 dB/100ft
50 MHz	3.4 dB/100ft
100 MHz	4.99 dB/100ft
150 MHz	6 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Bulk Cable Weight:	13 lbs/1000ft
Max. Pull Tension:	36 lbs
Min Bend Radius (Overall):	1.5 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Mini 59
Other Specification:	Telcordia Specification GR-139-Core; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4

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
735C1 0081000	Gray	Reel	1,000 ft	612825184881
735C1 0083000	Gray	Reel	3,000 ft	612825184898
735C1 0085000	Gray	Reel	5,000 ft	612825184911

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.329 Revision Date: 11-09-2022
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