
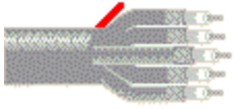


Product: [735C6](#) 

DS-3 and DS-4, 735C* Series, #25H-6 SPC Coax, CMR/CMG



Product Description

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

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
25H	Solid	SCCS - Silvered Copper Covered Steel	0.017 in	6

Conductor Count:	6
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Insulation

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.077 in

Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duobond®	100%
Braid	2	TC - Tinned Copper		95%

Table Notes:	Tape bonded to dielectric
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Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.134 in

Outer Shield Material

Material
No Shield

Outer Jacket Material

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.445 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
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Delay

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

1.29 ns/ft	79%
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High Freq

Frequency [MHz] | Max. Insertion Loss (Attenuation)

5 MHz	1.1 dB/100ft
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10 MHz	1.5 dB/100ft
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22.5 MHz	2.3 dB/100ft
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50 MHz	3.4 dB/100ft
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100 MHz	4.99 dB/100ft
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150 MHz	6 dB/100ft
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Voltage

UL Voltage Rating

300 V RMS

Temperature Range

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

Bulk Cable Weight:	100 lbs/1000ft
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Max. Pull Tension:	216 lbs
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Min Bend Radius (Overall):	4.5 in
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Min Bend Radius (Each Coax):	1.5 in
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Standards

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

Environmental Space:	Indoor - Riser
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU Directive 2012/19/EU (WEEE):	Yes
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EU Directive 2015/863/EU:	Yes
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EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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EU CE Mark:	Yes
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EU RoHS Compliance Date (yyyy-mm-dd):	2007-10-17
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MII Order #39 (China RoHS):	Yes
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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
735C6 0081000	Gray	Reel	1,000 ft	612825185000
735C6 0082000	Gray	Reel	2,000 ft	612825185024

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.147 Revision Date: 04-08-2020
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