
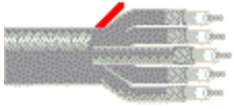


**Product:** [735C6](#) 

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
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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 Freq

##### 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

UL Temp Rating: 75°C

Operating Temp Range: -40°C To +75°C

### Mechanical Characteristics

Bulk Cable Weight: 100 lbs/1000ft

Max. Pull Tension: 216 lbs

Min Bend Radius (Overall): 4.5 in

Min Bend Radius (Each Coax): 1.5 in

### Standards

NEC/(UL) Compliance: CMR

CEC/C(UL) Compliance: CMG

RG Type: Mini 59/U Type

Other Compliance: 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 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 CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2007-10-17

MII Order #39 (China RoHS): Yes

### Suitability

Suitability - Indoor: Yes

## 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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