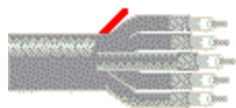


**Product:** [735C24](#) 



DS-3 and DS-4, 735C Series, 24 Coax 25H AWG SPC, CMR/CMG

## Product Description

735C Series, 24 Coax 26 AWG solid .017" silver-plated copper conductors, foam HDPE insulation, Duobond® Shield (100% Coverage) + tinned copper braid shield (95% coverage), CMR rated, individual and overall PVC jackets 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
25	Solid	SC - Silvered Copper	0.017 in	24

Conductor Count:	24
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#### 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
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#### Inner Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.134 in

#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.905 in	Yes

### Electrical Characteristics

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
36 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)
1 MHz	0.5 dB/100ft
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	6.0 dB/100ft

Voltage

UL Voltage Rating
300 V RMS

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

UL Temp Rating:	60°C
Operating Temp Range:	-20°C To +75°C

Mechanical Characteristics

Bulk Cable Weight:	412 lbs/1000ft
Max. Pull Tension:	576 lbs
Min Bend Radius (Overall):	9.1 in
Min Bend Radius (Each Coax):	1.4 in

Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	Sub-miniature 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)
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	No
Suitability - Burial:	No

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

Flammability, LS0H, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1666 Vertical Shaft
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
735C24 0082000	Gray	Reel	2,000 ft	612825184959

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.157 Revision Date: 12-15-2021
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