


**Product:** [734C3](#) 

DS-3 and DS-4, 734C Series, #20-3 SPC Coax, CMR/CMG



**Product Description**

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (85% coverage), inner PVC jacket, overall PVC jacket with ripcord. Multiple coaxes feature inner PVC jackets with printed numbers for circuit ID.

**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
20	Solid	SCCS - Silvered Copper Covered Steel	0.032 in	3

Conductor Count:	3
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**Insulation**

Material	Nominal Diameter
PE - Polyethylene (Foam)	0.148 in

Table Notes:	Gas Injected
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**Inner Shield Material**

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Tri-Laminate (Alum+Poly+Alum)	Duobond®	100%
Braid	2	Tinned Copper (TC)		85%

Table Notes:	Tape bonded to dielectric
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**Inner Jacket Material**

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.235 in

**Outer Shield Material**

Material
No Shield

**Outer Jacket Material**

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.588 in	Yes

**Electrical Characteristics**

**Conductor DCR**

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Inner Shield DCR	Outer Conductor DCR
10 Ohm/1000ft	10 Ohm/1000ft		2.4 Ohm/1000ft	2.4 Ohm/1000ft

**Capacitance**

Nom. Capacitance Conductor to Shield
16.8 pF/ft

#### Inductance

Nominal Inductance
0.097 $\mu$ H/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) [%]
1.27 ns/ft	80%

#### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	0.28 dB/100ft
5 MHz	0.59 dB/100ft
10 MHz	0.8 dB/100ft
22.5 MHz	1.18 dB/100ft
50 MHz	1.82 dB/100ft
100 MHz	2.6 dB/100ft
150 MHz	3.22 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:	136 lbs/1000ft
Max. Pull Tension:	180 lbs
Min Bend Radius (Overall):	6 in
Min Bend Radius (Each Coax):	2.5 in

### Standards

NEC/(UL) Compliance:	CMR
CEC/C(UL) Compliance:	CMG
RG Type:	59/U Type
Other Compliance:	Telcordia Specification GF-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):	2007-10-09
MII Order #39 (China RoHS):	Yes

## 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
734C3 0081000	Gray	Reel	1,000 ft	612825184294
734C3 0083000	Gray	Reel	3,000 ft	612825184300
734C3 0085000	Gray	Reel	5,000 ft	612825184324

## History

Update and Revision:	Revision Number: 0.157 Revision Date: 09-30-2020
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