



Product: [734C8](#) 

DS-3 and DS-4, 734C Series, #20-8 SPC Coax, CMR/CMG

Product Description

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond®; tinned copper braid shield (85% coverage), inner PVC Jacket, 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
20	Solid	SCCS - Silvered Copper Covered Steel	0.032 in	8
Conductor Count:		8		

Insulation	
Material	Nominal Diameter
PE - Polyethylene (Foam)	0.148 in
Insulation, Table Note:	
Gas Injected	

Inner Shield Material				
Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Alum / Poly / Alum	Duobond®	100 %
Braid	2	TC - Tinned Copper		85 %
InnerShield, Table Note:			Tape bonded to dielectric	

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	0.86 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 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) [%]
1.27 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

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

Bulk Cable Weight:	30 lbs/1000ft
Max Recommended Pulling Tension:	483 lbs
Min Bend Radius (Overall):	8.5 in
Min Bend Radius (Each Coax):	2.5 in

Standards

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
RG Type:	59/U Type
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 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):	2007-04-09
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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Part Number

Variants

Item #	Color	Putup Type	Length	UPC
734C8 0081000	Gray	Reel	1,000 ft	612825184379
734C8 0082000	Gray	Reel	2,000 ft	612825184386

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.249 Revision Date: 04-28-2020
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